



04 May 1917

## The Missouri Miner, May 04, 1917

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

---

### Recommended Citation

"The Missouri Miner, May 04, 1917" (1917). *The Missouri Miner Newspaper*. 139.  
[https://scholarsmine.mst.edu/missouri\\_miner/139](https://scholarsmine.mst.edu/missouri_miner/139)

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. 33.

Friday, May 4, 1917.

Price 5 Cents.

## M. S. M. IS PROUD.

Over thirty students of M. S. M. have signed up to take the training at Fort Riley, and as many more have sent in their applications to be accepted. For the most part, the men have volunteered for the Engineering Corps, altho the Artillery and Cavalry and Infantry have not been overlooked.

It is not surprising that M. S. M. should find in its midst so many red-blooded Miners, who are willing to fight for the country that gave them birth. It is not at all surprising, but consistent with the spirit that has always manifested itself at the School of Mines. The students have drilled until even a West Pointer need not be ashamed to be in charge of the company. The flag has been raised and lowered each day over the Gym since the 1st of April, and a subscription of over \$100.00 for a steel flag pole on the campus has practically met its purpose. Considering all these things it is not surprising to see such a large percentage leave for the front.

And the best part of it is, for the country's good at least, the best men in school are going to make the sacrifice. They have not been hasty nor impulsive, nor blindly followed each other as sheep over a precipice, but have calmly made a decision, and are sticking by it. There are others, too, who are not up-to-date on school work, but the Miner knows that when the bugle sounds in stern reality, they too will gather 'neath the banner.

Another feature is the attitude of the Faculty, who have for the most part assured the volunteers that they need not

worry in the least about grades, credits or anything. Some of them have even signed up, and are about to don khaki.

Such, then, is the spirit of M. S. M..

The Miner voices the sentiment of the Faculty and Student Body in saying to the volunteers: We are proud of you, fellow Miners; proud that you have the courage to prove your principles by acts. We are proud of you, and if the time comes we hope to be with you. You are a credit to the School of Mines.

## A Letter From an Old Miner.

Just as the Miner goes to press we received the following letter, which was turned over to the Flag Pole Committee. It is not the only letter of its kind, but is typical of M. S. M. alumni spirit, and coming as it did from a foreign land, and just when the money was needed, it deserves our mention. There is only \$20.00 more necessary to have a 100-foot flag pole, and it is bound to materialize sooner or later. Let's come across, if we haven't done so already.

Cobalt, Ont., April 30, 1917.

The Missouri Miner,  
Rolla, Mo.

Gentlemen:

I am enclosing a check for \$5.00, made to your order, which I ask that you turn over to the committee which is boosting the flag pole.

Yours very truly,  
ROBT. E. DYE.

The American Book Company has issued a volume in its Eclectic English Classics Shakespeare's "The Tempest." Dr. J. W. Barley, head of the Department of English and Modern Foreign Languages, edited the book for this company.

## Important Invention in Flotation.

An interesting and instructive talk concerning a machine which will have a great influence in modern flotation was given by Mr. Vogelsang Wednesday afternoon in the Metallurgy room.

Mr. Vogelsang invented the machine, and originally it was used only to "emulsify" fats and oils in dairy operations. However, upon investigation it was discovered that it would most excellently emulsify flotation oils, and by any one familiar with flotation, it can be easily realized that the primary difficulty of the process is greatly mixture of oil and ore can be made.

The machine consists fundamentally of a steam jet, which is directed into a throat open to an ore pulp feed. From this throat the ore is squeezed thru a perforated cylinder, and a perfectly emulsified oil is intimately mixed with the ore.

The steam consumption is remarkably slight, and the pressure need not exceed 40-60 pounds. From samples of the oil after the "emulsifying," it could be seen that the oil was practically infinitely broken up into minute particles, and could be mixed with water as easily as ink or milk.

Mr. Vogelsang, the inventor, tried out his machine at Mascot, Tenn., and accomplished wonders in ore extraction. Further more, he has proved himself to be a true benefactor to the mining profession, insomuch as he has not covered his patent with impossible royalties, but is about to sell his machine at a reasonable price. He has also refrained from allowing one company

to buy exclusive rights. In this way he deserves the esteem of the mining and metallurgical world. He has also encouraged research work by presenting the school with a machine.

The Civil Engineering profession may see great possibilities in the machine as a thorough mixer of concrete. If such could be done, cement would be three times as strong.

Another feature of the talk was the presence of "Chief" Buehler, of the State Survey, Director McRae of the Faculty, and an interested audience of upper classmen.

As usual, certain Professors and certain students were absent, but they only are the losers, for the talk was good, and Mr. Vogelsang's work was appreciated.

#### Too Much Slover.

The Engineers and Muckers crossed bats Monday on the muddy Jackling field, which resulted in a second win for the Engineer pastimers. The game due to the wet and muddy grounds, was slow, but was interesting to the few bleacher warmers who were brave enough to defy the cold.

The cause of the Mucker loss was simple enough. It was a plain case of too much Slover, who fanned 16 men with ease. This boy has been the surprise of the season, and he compares with the rest of the pitchers so far as a big leaguer does to a bush leaguer. He has everything that there is on a ball, and seems to be able to keep his head in a pinch.

The game, although one-sided, was interesting. It had many laughs in it, and many silent sorrows. Errors at crucial times by the Mucker outfit caused the big score.

The finals for the Allison Cup series will be played off about the middle of the month, providing Jupiter Pluvius will condescend to refrain from leaking for

awhile.

Batteries: Engineers, Slover and Novak and Nevin; Muckers, Lyons and Stoner. Umpires: Eb and Leonard.

#### Mass Meeting.

April 30, 1917. Athletic Association in charge. Ole Nevin, chairman.

The Mass Meeting was turned over to the Athletic Association for the purpose of electing officers for next year. Before the election, O. E. Stoner, business manager of the Association, read a list of proposed amendments to the constitution. (You will find these amendments in another part of the paper.)

The election for President of the Association was hotly contested, Bohart beating out Doennecke by only two votes in the final count. Doennecke was elected Vice-President by acclamation. Harry Corby was elected Secretary, and Murphy succeeded in landing the business management. Freudenberg will be next year's cheer leader.

The meeting adjourned after the election of the above mentioned men.

#### Alumni Notes.

R. G. Knickerbocker, '13, will soon leave Great Falls, Mont., for Kvshtvm, Perm Government, Russia, where he will be in charge of a copper mine. Mr. Knickerbocker has promised to write a long article for the Miner on the methods employed in copper mining in the eastern part of Russia.

E. G. Deutmna', '16, metallurgical engineer for the Vinegar Hill Zinc Co., is doing some experimental work in connection with the National Zinc Separating Company, at Cuba, Wisconsin.

The Coal Age of March 3, 1917, contains a description of a pendulum hanger for shaker screens, by John A. Garcia, '00, of Allen & Garcia Co., Chicago, Ill.

**HAVE YOU**  
Ever Tried  
**Chase & Sanborn**  
SEAL BRAND  
**Coffees and Teas**  
Coffee at 25c, 30c, 35c and 40c  
Tea, all high grade, 60c and 70c  
BUY IT AT  
**Model**  
**Grocery**  
Telephones 78 and 279.

**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 Th  
**City Barber Shop**  
Charles Bunch, Prop.

FOR THE  
**BEST TO EAT**  
and **WEAR**  
TRY

**Schumans**

**Pannings of the Week.**

Good bye, dear Seniors. We wish you an instructive, and above all, a pleasant trip.

Faculty and students alike risked an eye when a female of the species crossed the campus in the windstorm last Monday.

Pretty soft. The Seniors will soon be gone, and then we will not have to show any more.

The deluge of quizzes sweeps by us unheeded. Some are so occupied by thoughts of summer training camps that they have no time for study, while others have become so hardened by the continued flood of quizzes that they have become indifferent.

Will Lemp's factory be included in the places visited on the Senior trip? If not, why not?

"Historical" Geology is setting us all buggy.

The pannings of this last week are rather lean, due to the fact that all the students are too busy talking war to get into mischief.

**THE FIRST OF MAY.**

A wintry blast begins to blow,  
Then spring showers instead of snow,

A little sunshine mixed in, too,  
Then a fellow don't know what to do:

In the morn he's wearing his overcoat, yet

By noon it's his raincoat lest he get wet;

Afternoon finds him in last year's palm beach,

And by night he's wearing all coats within reach.

**JUNIOR COLUMN.**

Zoller left school last night on No. 7 for Tulsa, Okla., where he is to accept a position with Valerius, McNutt & Hughes as geologist. We all wish him the best of success.

"Jimmie" Valentine is hobbling around pretty spry here lately. Went out to see a young lady last Wednesday, and then

besides that he has something else up his sleeve, which will be pulled off as soon as his crutches go to the scrap heap.

Lask don't need to get so sore about Bardsley going out and seeing his Jane. She said he could have the other two nights out of the week, anyway.

This Senior that attends one of the C. E. Junior classes must not put "Leave on a Week" over work that has been put on the board.

Don't get Fruity Freudenberg mixed up with the Junior Class records. Fruity must be a Sophomore or a Freshman, as also don't belong to the list below the Senior dues list.

Dean has put the Junior C. E.'s thru the first initiation of the Theory of Elastic Arches. The boys say it's nothing but advanced calculus, and they already know all about that.

The swindlers are still trying the patience and pocket books of the Junior hydraulics class. Even the war doesn't stop that duo-personal mention.

The little bull dog pup duplicated his carpenter trick in hydraulics last Monday. Prof. Harris requests that pups be kept at home. He will do all the hydraulic demonstration in his Lab. class.

Our married man, Mr. Decker, has been kept at home so much by his wife that we don't get to see much of him any more. But we might say that if any of the other boys can get a wife like Mrs. Decker, he advises them to get married at once.

Stoner plays a brilliant game of ball in the peanut league. He would be a home run baker if second base wasn't so darn far out in center field.

She: I've just finished an algebra quiz, and my head aches awful.

He: O, I see. Sort of an aftermath.

**MODEL MEAT MARKET**

Best Kind and Quality of  
**FRESH AND SMOKED MEATS**  
Fresh Fish Every Friday.  
Telephone No. 98.

**FRESH LINE**

**LOWNEY'S CANDIES,**

**CIGARETTES,**

**CIGARS AND TOBACCO.**

**Knapp's Drug Store**

**REMEMBER**

There Are No  
**POOL OR BILLIARD TABLES**  
In The

**ARMY**  
**Johnson Bros.**

**DON'T FORGET**  
**WE SELL**  
**Kodak Supplies**

And Also do Quality Finishing Work.

Quick Service.

**S** MAIL'S  
**SMOKE**  
**HOP**

**Miners**

Come and see my new line of  
**Miner Pins,**  
**Rings and Fobs**

Just Arrived

**J. A. ALLISON,**  
The Jeweler of Quality.

**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

**Lambda Chi Alpha Enters  
M. S. M.**

On April 21st The Muckers' Club was officially started as Alpha Delta Zeta of the Lambda Chi Alpha National Fraternity. Installation took place April 30.

Lambda Chi Alpha is represented from coast to coast, and in thirty-four universities and colleges, among which are many of the large and prominent seats of learning of the East.

Alpha Delta Zeta is the only chapter of Lambda Chi Alpha in Missouri.

The charter members are as follows:

H. A. Kluge, C. W. Hippard, Ralph Dale, L. R. Scheurer, R. P. Lyons, R. D. Cooper, P. D. Kern, Earl Murphy, L. C. Skeen, R. J. Smart, O. E. Stoner, W. G. Hippard, Galen Miller, C. L. Dorris, A. V. Eulich, Robert Bruce, L. W. Stokes, Merryl McCarthy, C. F. Jungk, M. L. Dorris, R. N. Place.

**Won in the Seventh.**

By far the prettiest game of the Allison Cup series was played Wednesday night by the Sigma Nu last year champions, and the Pi K. A. which upset all dope, and thrust the last year champions down into the dust. The Pi K. A. grabbed the bacon in the seventh, making the score sheet show a 9-7 win for them. The game was anybody's until the last. At the end of each inning from the third on, the score would be tied. In the seventh the Sigma Nu's went out in one, two, three order, then came the Pi K. A. The men whose turn it was to bat were the weak sisters, an extent that the lubrication be go more than seven innings, but —Williams singled to right, stole second and third; Leach fanned, Terry walked, then Marston broke it up with a hot line drive down past first base, which was good enough to put in the two winning runs.

Errors by the Sigma Nu team and the weakening of Leonard at the end, were the main causes for their defeat. The Morris brothers amused the bleachers in their free tumbling exhibition in right field.

This week has upset all dope on results, as the supposedly weak teams have carried off the laurels. It is rumored that much pie has changed owners.

Batteries: Pi K. A., Corby and Williams; Sigma Nu, Leonard and Tidd; Umpires, Lyons and Eb.

**SENIOR COLUMN.**

The Senior Class have nobly upheld the best traditions of their class, and of their school, by enlisting, almost unanimously, in the Officers Reserve Corps. The "potential" officers are now awaiting orders from the camp commandant at Fort Riley.

School work for the Seniors is now over. The last of the exams were successfully passed on Thursday, and the only thing

standing between us and a degree (at the present time) is the Senior trip.

All Seniors who have failed to receive orders from Fort Riley are expected to take the Senior trip. You should consult the schedule of the trip which appeared in this column three weeks ago.

T. C. Gerber, ex-'17, was visiting in Rolla last week. At the present time Teddy is employed on construction work in Ohio.

E. C. Burkhardt, ex-'17, was a recent visitor to Rolla. "Burk" is a civil engineer now. He expects to be back in school next year.

**SOPHOMORE COLUMN.**

If some of our Profs. would excuse us from these experiments in Physics, one map in Mine surveying, and two subs in Quant., we would have time from our studies to take up military drill. Is there any chance here?

Tom Leach and Bob Marston are both attending church regularly now. Bob, however, usually waits for her on the outside.

Prof.: "Some of these guns ought to make a report on these problems, for what is the use of being a gun if you can't make a report?" This is why students go crazy.

A few of our classmates made a fierce attack on Duffy's Descrip. examination last Saturday, but were repulsed with great losses.

Deckmeyer has a slim chance of passing Sophomore English, since he does not accept Dr. Barley's theory of evolution. That probably accounts for the fact that so many admitted their belief in evolution.

Lang, Nichols & Co. report that the Freshmen don't seem to grasp Qualitative Analysis.

Patronize our advertisers.

# MURAD

THE TURKISH CIGARETTE

FIFTEEN CENTS



And Listen Also to This:

You may hunt the world over.  
You may pay any price you wish.

You cannot find a Turkish cigarette that will please you so much — or for so many reasons — or continue to please you so long as a MURAD.

**WHY?** Because the rarest, the faultless, the Perfect Thing in cigarettes is the Pure Turkish Tobacco Flavor.

And MURAD is the most Perfect Example of a Pure Turkish Tobacco cigarette that the world has ever known.

MURADS have, and can have, no rival. They are THE Turkish Cigarette.

*Sanarques*  
A CORPORATION  
Makers of the Highest Grade Turkish and Egyptian Cigarettes in the World

Everywhere — Why?

**MAY 4TH**  
**Friday's Special**  
**Rolla's Theatre**  
**Viola Dana**

IN  
**The Cossack's Whip**  
 AND  
**A COMEDY**  
 REGULAR ADMISSION.

**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.

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

**Patronize**

Your Home

**Photographer.**

Take Your Film Rolls To The  
**Baumgardner Studio**

**THE COMPARISON OF THE  
 FOUR, SIX, EIGHT AND  
 TWELVE-CYLINDER GAS  
 ENGINES.**

A Lecture Delivered by Charles  
 A. Etem Before the Class in  
 Internal Combustion Engines.

NOTE.—Various authorities were consulted in the preparation of this report. Much valuable data were taken, sometimes directly, from the January issue of The Technology Monthly, the catalogs of the Hudson Auto Co., and the April number of Outing, "The Case of the Twin Six," by W. B. Stout.

In this report we will make no attempt to prove the superiority of any one type of engine, as we believe that a well-designed four is as good an engine as a well designed twelve, and the question as to which is the best is more or less a matter of opinion, each engine having its own field where it might be said to be supreme. We have draft horses, and we have roadsters, yet neither can be said to be the best; both have been developed to do a certain type of work.

As the largest field of development for the gasoline engine has been in automobile and aeroplane work, and since this is the type of engine we are all more or less familiar with, we will be most concerned about this type. Since the engine is the most vital part of an automobile or aeroplane, it is right that it should be of the best design, which is obtained only by the greatest expenditure of thought, experience and ability on the part of the designer. One reason, perhaps, for the great variety of automobile and engine design is the individuality of taste and selection that people like to exercise; one man wants one thing, in a car, another something else. However, we will look at this standpoint, and try to find out why the multiple cylinder motor has become so prominent, and what is the engineering reason which has brought out motors of

the twin-six type.

The basic reason is the necessity of reducing reciprocating weight, that motors might run at higher speeds with greater smoothness and lack of vibration. In the early types of motor cars high speed was not sought after as at present, and a speed of 25 or 30 miles an hour was not often exceeded. The motor as it stood, however, could not turn up to high enough speeds to carry the car on the road fast enough to satisfy the customer, so that with the adoption of lower gear ratios for greater performance at slow speed, there was immediate necessity for developing motors which would turn over at higher rates of revolutions, in order to continue car speed up to maxima desired by owners.

The history of gasoline engines begins with single cylinder designs. There were soon discarded, because of the great vibration caused by a single heavy piston shaking back and forth, or up or down, so that when the engine turned over 700 or 800 times a minute the riders were in great discomfort, and had to decrease the speed. This reciprocating or shaking weight of pistons has been the chief cause of vibration in motors, and the chief limitations of high engine speeds.

Two-cylinder motors helped out some, and four-cylinder motors were much better, but it is well understood that the crank shaft of an ordinary four-cylinder internal combustion engine is in balance, while the center of gravity of the four pistons during the revolution of the motor does not remain at the same point. On the contrary, it changes position vertically up and down about one-half inch. This change in position of the center of gravity of the pistons of the four-cylinder engine produces a vibration which becomes periodically noticeable as the speed increases, there being certain critical speeds at which the

vibration is maximum.

A six-cylinder motor is, however, in perfect balance, its piston center of gravity remaining at the same point during complete rotation. It was thought for awhile that the ideal engine had been found. The greatest difficulty, however, came with this motor in practice, through difficulty in making crank shafts rigid enough to prevent distortion at certain speed.

It might be well to say a few words on the important part that the design of crank shafts plays in the operation of motors, especially those operating at high speeds. This important subject has been the stumbling block to automobile engineers for many years. Just how far automobile engineers have been able to overcome this difficulty of designing a crank shaft which will show no warping action at high speeds, we do not know. Some tests recently made at The Massachusetts Institute of Technology on crank shafts indicate that the patented shaft designed by the Hudson people, and used in their Hudson Super-Six, when spun at a speed of 3000 R. P. M., exhibited not the least possible distortion. For this reason the manufacturers claim that there is no limit to the practical speed of the shaft. On other shafts on which tests were made, when a speed of above 2200 was reached the shaft was distorted to such an extent that it looked like the game would come impossible. Upon removing the shaft from the crank case it had taken a permanent set of  $\frac{1}{8}$ -inch. This bending of a heavy crank shaft could only have been accomplished by a terrific force acting in a direct manner from the center line outward or it would have bent the shaft. By the use of a few figures we might be able to get an idea of the size of this force. The throws, or cranks represent a mass off center, and a mass of considerable weight. In a well constructed automobile engine of

40-50 H. P. this mass will weigh at least  $7\frac{1}{2}$  pounds, and will be about  $2\frac{1}{2}$  inches from the center. Thus we have weight of  $7\frac{1}{2}$  pounds being spun around in a circle 5 inches in diameter.

Continued Next Week.

#### FRESHMAN COLUMN.

In Freshman English: "A whole regiment of Teutons was wiped out." Some job.

Sherman says that he is going to take a little "Light" back to Oklahoma with him. Attention, Baker!

Some of the Freshmen have made application to go to the training camp at Fort Riley this summer. We hope that all succeed in passing the exams, as we are sure that our fellow students will make good officers.

"Fat" Laun has passed over the pitfalls of Qualitative Analysis, and has finished the course by the grace of God and Fred Lane. Maybe J. C. Ingram.

I. B. Johnston has been in St. Louis the last week. He is visiting his mother, who is dangerously ill.

Bobbie Stubbs' parents spent the last week-end with him.

"Irene" Laun has a new crush in Springfield. Ask him about it.

"Igigi" Carson is a rough looking nut nowadays. After a little

### 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.

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

physical persuasion, however, he consented to remove his beard.

Cairns sure looked like a "Hebrew Peddler" at the ball game Wednesday.

"Comeob" Conrad, one of the beau of the town, is attending the Holy Rollers' meeting every night. No use, Conrad, two of the Seniors are now "rushing" Mary.

The general opinion of the Freshman Class is that Lang and Nichols don't seem to have grasped the subject of Qualitative Analysis themselves.

Patronize our Advertisers.

Subscribe for the Miner.

## Training Camp Applicants.

Extract From Circular For The Information of Applicants

### CLOTHING

As the supply of UNIFORMS is already inadequate, all candidates are urged to procure UNIFORMS from PRIVATE DEALERS before reporting at CAMPS.

A FULL SUPPLY AT  
**HELLER'S**

**Proposed Amendments to the M. S. M. A. A. Constitution.**

The following amendments will be voted upon in the near future:

Art. II, Sec. 3.

The duties of the secretary shall consist in keeping a record of the proceedings of all meetings of this Association. He shall have charge of all the general correspondence of the Association, and shall keep all matters delivered into his charge until same is ordered destroyed by the Board of Control.

Proposed Amendment.

The duties of the secretary shall consist in keeping a record of all meetings of the Association, which he shall deliver to the secretary of the Board of Control as custodian of same.

Art. II, Sec. 4.

Regarding Duties of the treasurer—He shall pay out money only by order of the Board of Control, and at the end of each month shall present to the Association a full account of all moneys received and expended by him on behalf of the Association.

Proposed Amendment.

Substitute 'year' for "month."

Art. II, Sec. 5.

The student manager shall supervise the collecting of all gate receipts at exhibitions, and shall turn the same over to the treasurer immediately after such exhibitions. He shall have charge of all arrangements and finances on all trips of the various teams.

Proposed Amendment.

Substitute for last clause. He shall co-operate with the Physical Director in the financial arrangements for the trips of the various teams, and shall make to the treasurer of the Association a statement in detail of the receipts and expenditures of each trip.

Art. XII, Sec. 2.

The student manager shall supervise all bills and issue orders for the same before they are paid by the treasurer—

Proposed Amendment.

Insert "payment"—and issue orders for the payment of the same—

Art. XII, Sec. 3.

It shall be the duty of the Board of Control to prohibit any person or persons who cannot qualify under the rules of The Missouri Inter-Collegiate Association, or The Southwestern School of Mines in any athletic contest, meet, or games, when the opposing contestants are organized or operated under either of said rules.

Proposed Amendment.

Omit.

Art. XII, Sec. 7.

The Board of Control shall elect one of its members as secretary of the Board, who shall at the end of the year turn over to the Secretary of the Athletic Association all accumulated documents and correspondence.

Proposed Amendment.

The treasurer of the Athletic Association shall be secretary of the Board of Control.

Art. XIII.

All supplies for the various teams shall be purchased by the student manager, and not until a voucher for same has been properly signed by the President of the Association.

Proposed Amendment.

All supplies for the various teams shall be purchased by the Athletic Director.

The Board of Control shall at a meeting held within two weeks following Thanksgiving Day, from estimated available moneys for the ensuing year, apportion for each branch of sport

such a sum for games and equipment as they shall deem suitable for that sport, and it shall be the duty of the Athletic Director, in his preparation of schedules and the buying of equipment, to confine expenditures for such within these amounts unless by action of the Board of Control this sum is, for some approved reason, increased.

Art. XXIII.

Concerning baseball letter.—The design and style of this insignia shall be as follows: A block M of orange color 8 inches wide by 7 inches high by 1 inch.

Proposed Amendment.

A block M of orange color 6x6x1 inches.

Art. XXIV.

Concerning Track Letter.—The style and design of this insignia shall be a block M of orange color 6 inches wide by 7 inches high by  $\frac{3}{8}$ -inch.

Proposed Amendment.

—shall be a block M of orange color 6x6x1 inches.

Art. XXVII.

Any student who shall have secured the insignia of two different teams shall be awarded a stripe two inches wide, to be worn—

Proposed Amendment.

—a stripe one inch wide to be worn—

**Gannon-O'Daniel.**

Mr. Kenrick Ijwin Gannon, '16, was married to Miss Bernadette O'Daniel, at Monroe City, Missouri, on the 30th of April. Gannon left school two years ago to take up the practice of his profession, civil engineering, and is at present employed by the American Brake Company, of St. Louis.

The Miner extends best wishes to Mr. and Mrs. Gannon.