



04 Nov 1930

The Missouri Miner, November 04, 1930

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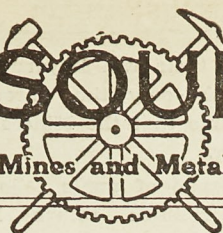
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THE MISSOURI MINER.

Missouri School of Mines and Metallurgy, Rolla, Missouri.



Vol. 17.

Tuesday, November 4, 1930

Number 8

DR. HARLOW SHAPLEY GIVES INTERESTING LECTURE ON THE ASTRONOMER'S NEW UNIVERSE.

Dr. Harlow Shapley of Island Universe fame, Director of Howard University Observatory, Cambridge, Massachusetts, gave a most interesting and absorbing lecture at Parker Hall Tuesday, November 4 at 8 p. m. on "The Astronomer's New Universe."

Dr. Shapley's major researches have been made in the fields of stellar photometry and spectroscopy. At Mt. Wilson Observatory, where is located the greatest telescope in the world, he perfected methods of measuring stellar distances photometrically, and applied these methods to the prob-

Continued on page 6.

ROLLA JUNIOR CLUB SPONSORING CHARITY BALL

The Rolla Junior Club is having a Charity Ball at the Jackling Gymnasium Friday night, Nov. 7, 1930. The proceeds will be devoted to furthering charity work in and around Rolla.

In addition to the regular dance, the club has made arrangements to have the Betty Harlin Dancers give a special program. Those who saw the program at Parker Hall last Thursday will vouch for the ability of the youthful dancers who have been under the instruction of Miss Harlin.

A chance to see these performers once again is more than worth the price of admission. The varsity orchestra will furnish the music and the tickets will be sold for one dollar a couple or fifty cents a stag. The tickets can be secured from any member of the club or at the gate.

A good time is assured and since the members of this club have always backed the Miners to the limit in their social endeavors, the students are expected to display their gratitude by their presence at the ball next Friday night.

Miners 33, St. Louis U. 33

BETTY HARLIN DANCERS PLEASE FULL HOUSE

By Eddie Crawford, Staff Fine Arts Connoisseur.

Terpsichore herself could have wished for no better performance than was given by the pupils of the Betty Harlin School of the Dance, in their revue at the general lecture series program Thursday night.

Students and townspeople, numbering over 550, demanded encore after encore from the small performers. The dances ranged from the classical, adagio, aesthetic and semi-classical to modern ballet and ball-room. The Varsity orchestra furnished the music for the program and the instructor of the pupils, Miss Betty Harlin, directed the performance.

Judged as one of the best numbers on the varied program was the adagio exhibition, "Song of the Islands", by Dave Howerton and Rosemary Crumpler. Other favorites were the dances of Mary Frances Higley, Imogene Hinsch and Jean Lloyd. Clever lighting effects and arrangement of scenery added much to the attraction.

NOTICE

The play-by-play report of the Westminster-Miner football game Saturday afternoon will be heard at Parker Hall, beginning at 2 p. m. The admission charge will be 25 cents.

Arrangements have been completed to report the Tulsa game direct from the stadium to Parker Hall on the night of November 14, beginning at 8.

O. D. Niedermeyer, 28, is Chief Engineer with Cia. Industrial "El Potosi," S. A., Unidad De Zacatecas, Apartado 18, Zacatecas, Zac., Mexico.

MINERS AND ST. LOUIS U. BATTLE TO SENSATIONAL TIE.

Both Teams Display Strong Offense.

The Miners and the St. Louis University elevens battled to one of the most thrilling and spectacular games that it was ever the pleasure of any football fan to witness. The game was perfect from the spectators point of view in that there was plenty of scoring, including long passes, fast broken field running, and enough breaks to thrill the most staunch.

Both of the teams last Friday displayed a type of offensive play which would have accounted for gains against any team in the country, but both teams likewise appeared to be extremely weak in defensive play. The game was marked by loose defensive work which resulted in numerous long runs and the completion of an unusually large number of passes.

Hassler was easily the outstanding player on the field. He broke loose time after time and made sensational runs for substantial gains through the Bills line. Thornton called the plays like the master field general that he is and added two touchdowns by his own prowess as a line plunder. Capt. Schofield and McDonald were in every play and displayed a brand of fight that made them unstoppable. Hyland displayed an ability to snare passes from the fog which resulted directly in one touchdown and directly in another during the closing minutes of the final period. Grant's playing as a defensive end was worthy of much merit and it was due largely to his work that Gazelle and McCoolle were stopped on their long, sweeping end runs. Suther-

land and Koch featured in the center of the line. The whole line held perfectly at times but the Bills made most of their gains from off-tackle plays and end runs. This may have been due largely to the strong interference which lead each Billiken play.

The Miners had slightly the best of the argument as far as yards from scrimmage and passes completed are concerned but the St. Louisians came out ahead in the punting duels. No fumbles were made in scrimmage during the entire game. This is unusual as is a tie of more than 20 points in a game of this type.

The Billikens literally swept the Miners off their feet in the first few minutes of play. The Miners received the kickoff but were forced to punt after two tries at the Bills line. THE BILLS STARTED A MARCH FROM THEIR OWN 40 YARD, WHICH ENDED WHEN THE BALL WAS OVER THE MINER GOAL LINE. The try for point was missed, but the Billikens brought first blood. The Miners again chose to receive, but the kickoff was fumble by a Miner back. THE BILLS RECOVERED ON THE MINER 36 YARD LINE AND IN FIVE PLAYS HAD TALLIED ANOTHER TOUCHDOWN AND KICKED GOAL FOR THE EXTRA POINT. The Billikens lead by a 13-0 score and the game had been going only five minutes.

Again the Miners received the kickoff. Thornton took the kickoff on his own 10 yard line and with perfect interference ran it back to the Billiken 35 yard line. ON THE NEXT PLAY HASSLER TOOK THE BALL ON AN OFF-TACKLE PLAY AND RAN 35 YARDS FOR THE FIRST TOUCHDOWN FOR THE MINERS. THE TRY FOR POINT WAS GOOD. This time the Miners kicked to the Billikens but soon forced the home team to punt. On the first play Hassler again went off tackle for about 33 yards. After several more tries at the line Schofield went around end and placed the ball on the 2 yard line. McDONALD CARRIED IT OVER ON THE NEXT PLAY. SCHOFIELD AGAIN KICKED GOAL. The quarter ended with the Miners on the long end of a 14-13 score and in possession of

the ball on their own 32 yard line. This was the only time throughout the game that the Miners led in scoring.

An exchange of punts followed but the Billiken return kick bounded out of bounds on the Miner 1 yard line. Schofield kicked from behind his own goal line and the ball rolled out on the 28 yard line. IN THREE PLAYS THE BILLS AGAIN SCORED AND THE TRY FOR POINT WAS SUCCESSFUL THIS TIME. The Miners received but punted back to the Billiken 41 yard line. THE BILLS PROCEEDED TO STAGE ANOTHER ATTACK AND SCORED ANOTHER TOUCHDOWN AND KICKED GOAL. The Miners received and a pass, Hassler to Thornton was good for 42 yards and the ball was on the Bills 23 yard line. A series of line plays advanced the ball to the 1 yard line where the Miners were held for downs. The Bills punted but the Miners came right back with two passes, the last, Thornton to Grant, was perfect but the referee ruled that Grant ran out on the one foot line. The Miners were held in two line plays and a pass over the goal line was incomplete as the half ended. The Bills led at the half, 27-14. The inability of the Miners to make that one yard in 6 tries proved to be a deciding factor in the game.

The Miners kicked off and the Bills returned the punt, placing the ball in possession of the Miners on their own 28 yard line. The Miners scored without losing possession of the ball. THORNTON CARRIED THE BALL OVER THE LAST 25 YARDS THRU AN OFF TACKLE PLAY. The try for point was missed. An exchange of punts followed and the quarter ended as the Bills intercepted a pass on their own 24 yard line. By two long runs and a pass the St. Louis bunch scored their last touchdown but missed the try for point. Schofield was injured and Hyland was substituted. The Miners received and aided by two good passes, Hassler to Hyland and Hassler to Malik placed the ball on the Billikens 6 yard line. THORNTON SCORED ON THE NEXT PLAY BUT HYLAND MISSED THE TRY FOR POINT. The Bills received but were soon

forced to punt and the Miners gained the ball on the 50 yd. line. Severalline plays placed the ball on the 25 yd line. THORNTON PUNTED TO HYLAND OVER THE GOAL LINE FOR THE LAST TOUCHDOWN OF THE GAME. THE FAMOUS TOUCHDOWN PLAY WAS GOOD FOR THE EXTRA POINT. The Bills received and by a long run and a long pass were threatening the Miner goal line as the final shot sounded the end of the game with each team credited with 33 points.

The lineup:

St. Louis	Position	Rolla
McGowan	(L. E.	Londrigan
Schultz	L. T.	Gibson
Pezolt	L. G.	Sutherland
Muellerleile	C.	Tomlinson
Podelwitz	R. G.	Koch
Joseph	R. T.	Andres
Kennedy	R. E.	Malik
Pike	Q. B.	Thornton
McCoole	L. H. B.	McDonald
Gazelle	R. H. B.	Schofield
Salinsky	F. B.	Hassler

Officials—Referee, Klein (Missouri); umpire, Marquard (Washington); field judge, Thumser (Washington); head linesman, Ramp (Cincinnati).

Score by Quarters

Team	1	2	3	4
Rolla	14	0	6	13-33
St. Louis	13	14	0	6-33

Summary:

Yards from scrimmage—Miners, 335; St. Louis, 241.

Passes—Miners, 7 complete for 171 yards; 4 incomplete, 1 intercepted; St. Louis, four complete for 115 yards; one incomplete, none intercepted.

Punts—Miners, 5 for an average of 32 yards; St. Louis, 8 for an average of 37 yards.

Penalties—Miners, 3 for 15 yards; St. Louis, 3 for 35 yards.

Fumbles—Miners, 1 recovered by St. Louis.

Touchdowns—Thornton 2, McDonald, Hassler, Hyland, Stephan, Gazelle, McCoole, LaPresta, Taylor.

Points after touchdown—Schofield (2), (placement); Malik, (pass); Pike, (placement); La Presta (2), placement.

First downs—Miners, 14; St. Louis, 12.

The Scotchmans ideal Xmas gift—A set of paper plates and an eraser.

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Metal on trial

In the laboratories of scores of foundries and rolling mills, a constant search is being conducted for a metal that is stronger, more resistant to temperature strains, and more economical to produce. Almost as constantly the compounds and alloys so developed are being brought to Crane Co. for trial.

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THRU THE TRANSIT

By Squint Himself

High ho and a can of Sterno.

It seems a beastly crime that one cannot turn one's back without some scum like Axe throwing out insults about one's physiognomy. (Editors note: Ten dollar word.)

Last Friday's game gave ample proof that the Missouri School of Mines and Metallurgy (fondly termed the Rolla School of Mines" by the St. Louis papers) really have a football team. Saturday morning's (Globe-Democrat) announced that Coach Grant "was giving his team nothing but signal practice and taking no chances on last minute injuries from skirmishing." Small wonder at that for show me a man with hide so tough that he can be hurled down violently amid a heap of boulders and come out unscathed.

This column is offering a good-as-new-second-hand-fur-lined-ring-proof bath tub to the house that welcomes the "unknown" guest. Or maybe we should make it a door in case the Lambda Chis should win the contest.

Axe said that all the Merciers had left town for the St. Louis game. Half of 'em went to the game and the other half walked out to prevent being carried out bodily.

After seeing Betty Harlin's Dancers, one wonders what becomes of all the pretty little girls when they grow up. I have always had a marked weakness for blondes. Consequently I fell in love with the two little blondes that sang "Go Home and Tell Your Mother." I ask "Why, oh why, can't they be half as sweet and charming when they're twenty years old? (Editors note: You outta know.)

Just what time is bed time at the K. A. house. Ask White, ladies, he'll tell you.

Flowers for the living while they're still able to enjoy 'em. This weeks roses go to the Captain, "Tex" Schofield, who has played mighty high grade brand of football this season, with this column's congratulations.

The party would like to go to St. Louis for the express purpose of giving the majority of the St. Louis sports writers that age old salute of derision.

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, Missouri.

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WE ARE, MAYBE?

We offer our sincere apologies to the sports writers whose predictions fell so far short of the actual outcome of the game last week. We are very sorry that the "little team from Rolla" could not "lose by three or four touchdowns", but we fail to see why it becomes necessary for these same writers to try to redeem themselves by such statements as "the injury of so-and-so forced the Billikens to be content with a tie score" or "St. Louis would have won hands down except that so-and-so was unable to play."

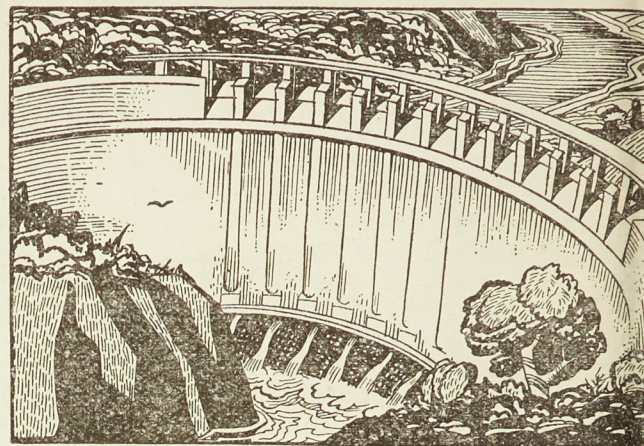
Comments of this kind do not seem exactly fair unless all of the breaks of the game are given.

The Miners had to be content with a tie and whether they got the breaks or not is part of the game and they are not griping. The more stable facts of the game such as yards from scrimmage and passes completed should have some play in determining the superior team.

THAT'S THE SPIRIT.

The merchants of the city are to be commended on their thoughtfulness in wiring in the messages of encouragement and best wishes to the team just before the start of the game. Such things help a great deal to relieve the tension that is sure to be present just before a big game.

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FINAL GLEE CLUB

SELECTIONS TO BE MADE WEDNESDAY.

Members of the Glee Club who have been present at any of the practices this year must be present at the Wednesday night practice or they will be removed from the rolls of the organization, according to J. S. Cullison, director. The group meets at 7 o'clock Wednesday evening at Parker Hall, and also at 6 p. m. on Mon-

days.

Six new pieces, re-
ed, have arrived and
started on them im-
view of the concert t-
the club the last of

Within the next
Cullison says, the va-
will be picked. A num-
for quartet use have
The Glee Club and
present an almost en-
of new pieces this

perhaps, some old favorites that received special applause when sung in the concert last year.

MINERS MEET WEST-

MINSTER FRIDAY

Fast on the heels of the St. Louis U. game comes our chance to avenge last year's defeat at the hands of Westminster College. Boyd, Westminster's one man team of last year, is missing this season, and reports show a much weaker team. Nevertheless the Miners will take nothing for granted when they journey to Fulton for the game Friday night.

Fortunately, no serious injuries have appeared as yet from the clash with St. Louis, although newspaper reports indicate that quite a storm hit the Royal Blue. The squad continues regular practice this week and it is probable that a number of reserves will see action in the game at Fulton.

KAPPA SIGS FROLIC AT

WESTBOROUGH, ST. LOUIS

Fifty couples attended the Kappa Sigma informal dinner dance Saturday night at Westborough country club near St. Louis. Among the guests of the Beta Chi chapter of Rolla were included alumni and members of the other Missouri chapters.

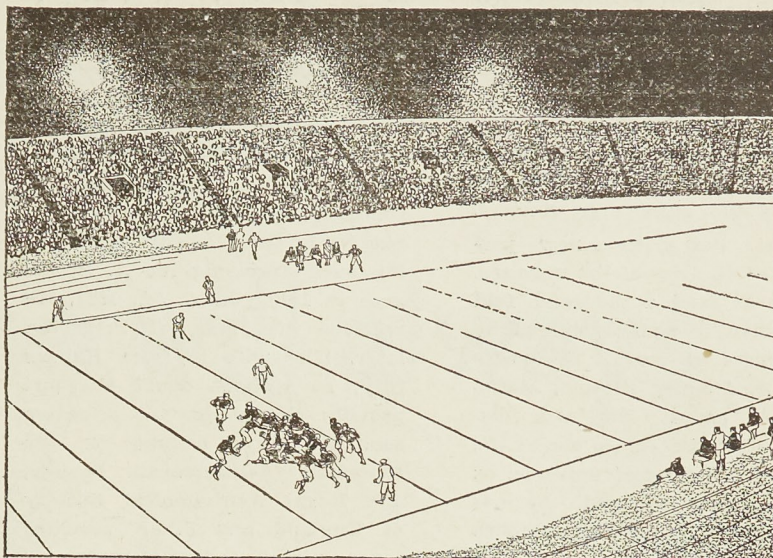
Dance music was furnished by the Herr-Henkens orchestra of St. Louis. Decorations of the dinner room and dance floor were scarlet, white and green balloons. Couples were taken to and from the city in cars. The Affair began at nine o'clock and ended at one.

THRU THE TRANSIT

By Squint Himself

Axe started to the St. Louis U. game, but upon reaching St. James his old car came to a well worn side road and refused to go any other way but up that road. S'funny what force of habit will do even to an old car. Saturday he came back to town and sold his ticket to one of those "second semester" freshmen that go about the campus in those "oh-so-cleverly" inscribed hats.

If you ever feel down and out and ready to break down and confess, just go out along highway 66 at dusk when the valleys are beginning to fill with purple twilight and the sun is going down



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in flames behind the hill tops. If you are made of flesh and blood and not a wooden Indian, you'll be glad you're still "among those present."

Next to Rudy Valee and tree sitting contests, I have placed night football games in my list of pet hates. Half a football game is the crowd and when one can see neither players nor crowd, the next worse thing to do is to listen to the "Maine Stein Song", crooned through the left (or is it the right) nostril.

Very Tactful

A customer sat down to a table in a smart restaurant and tied his napkin around his neck. The manager, scandalized, called a bay and said to him: "Try to make him: 'Try to make him understand as tactfully as possible that that's not done.'"

Boy (seriously to customer): A shave, or a haircut, sir?

—Passing Show.

She: Are you a husband-man?
He: No, I'm not even married yet.

DR. HARLOW SHAPLEY GIVES INTERESTING LECTURE ON THE ASTRONOMER'S NEW UNIVERSE.

Continued from page one.

lem of the distances and structures of the great star clusters. His work has given a new perception of the size of the universe. It to be at least a thousand fold larger than it was considered by astronomers of only a few years back. Dr. Shapley through statistical star counts has also discovered that the sun is not at the center of the sidereal universe, as was formerly supposed, but is several hundred quadrillion miles off center.

Dr. Shapley's studies of the famous star cluster "Messier 13" in the constellation of Hercules has proved that this cluster has a diameter of more than two and a half quadrillion miles, and contains more than 50,000 stars, each of them intrinsically brighter than the sun. His researches have also played a large part in establishing the fact that the great star-clusters are found only at universe distances from the plane of the galaxy, or milky way.

Dr. Shapley's rating among astronomers is equivalent to that of Dr. Millikan's, who lectured here last season, is among physicists, as Herbert Hoover is classed among engineers, and as Henry Ford's name is the by-word of the world. When the writer visited the University of Heidelberg, the great astronomer, Max Woelfer said: "We can hardly find anything now to do, for Dr. Shapley has already done it;" he went on further to say, that Dr. Shapley is the greatest benefactor in dispelling the ignorance of the human race since the time of Galileo Galilei (1609), and is no doubt the most brilliant astronomer of the day.

It will be of interest to his listeners to know that Dr. Shapley was born in a rural Missouri community called Nashville, which is twenty miles southwest of Lamar, the county seat of Barton county, near the head of Spring River, right in the Ozarks. In fact, Missouri has and has had famous astronomers: Father Brennan and Rev. Earl R. Hicks of St. Louis,

T. J. J. See of Mexico, Mo., Dr. Haynes of Columbia, Prof. Wm. A. Luby of the Junior College at Kansas City, Prof. Phillip Fox, who lectured here two years ago, was born just over the Missouri line in Kansas. He is now Director of the Adler Planetarium in Chicago, and many others. Dr. Shapley attended the University of Missouri, receiving his A. B. degree in 1910 and A. M., 1911. He received his Ph.D. at Princeton later. His wife is from Kansas City; so without doubt Missouri proudly claims him as a native son. He is a member of the American Astronomical Society, the Royal Astronomical Society of England and other societies too numerous to mention. On his merits, he was called to the Directorship at Harvard.

The writer in 1925 heard Dr. Shapley lecture before an audience of 5000 in Hill Auditorium, University of Michigan at Ann Arbor and it was through this inspiration that since he has had a keen interest in the subject. Dr. Shapley is an excellent lecturer, and it is indeed regretted that a larger crowd could not have heard him.

The School of Mines offers courses in astronomy and it is hoped that students and townspeople anticipating taking work in astronomy next semester had the opportunity of attending this interesting talk last evening.

C. E. BARDSLEY,
Asso. Prof. of C. E. & Astronomy.

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TRIANGLE DANCE IN

ST. LOUIS

As a chaser for that wow of a game with St. Louis U., Hallowe'en night, Triangle gave a dance afterward at the home of an old grad, Wm. J. Finley, '20, on the bluffs of the Meramec. Twenty-two couples helped to climax a rare evening of celebrating, which will be talked about many years hence. The guests arriving in high spirits continued higher as the dance progressed, for the spacious log home was attractively decorated and the food was beyond comparison.

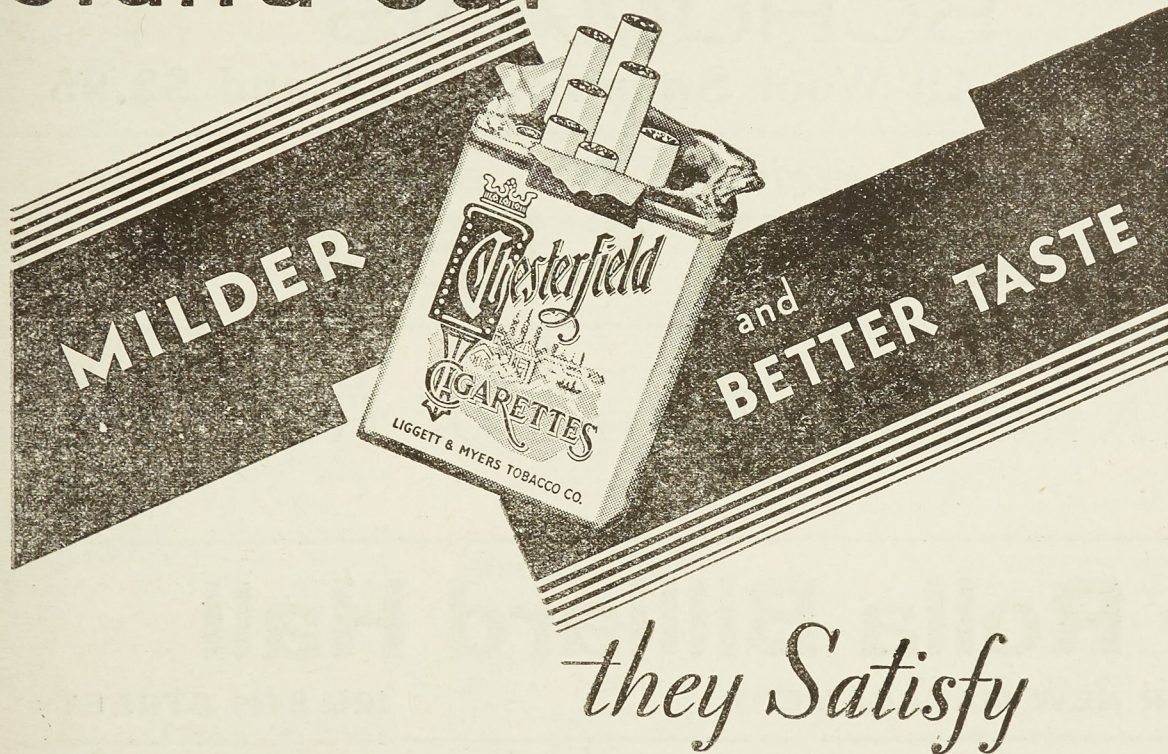
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WELL, HOW ABOUT IT?

Those who saw that never to be forgotten game last Friday can well appreciate the ability and the fighting qualities of those men who struggled in the fog and dimness of the stadium at St. Louis. These men have been working hard all season to develop this ability to such an extent that they can well be rated as one of if not the strongest eleven in the state this year.

How and where did they develop this ability. They developed it by long, strenuous practices almost every afternoon or night since the start of school. But the

big thing is that they were forced to practice on a field rivaling diamonds for hardness and with about as much elasticity as a brick fired to cone 15 in the terms of a ceramist. This same field becomes a ducks paradise at the first suggestion of a rain. These terms may seem a bit over drawn, but for the past few years attempts have been made to secure a decent place to practice and play with practically no results.

Early this fall the space above the bleachers was graded and leveled but no further steps were made to improve conditions. The writer for one would like to see

the present field heavily sodded and reserved for games only, while the space above the bleachers could easily be properly drained and made into an excellent practice grid. The team deserves at least this much and the advertising and publicity secured by this same team this season alone would more than repay the slight cost for the necessary changes.

T. M. Thompson, '25, is Test Engineer, Steam Engineering Department, of the Illinois Steel Co., at Chicago. He resides at 6106 University Avenue, Chicago.

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save SOLES

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**ORTON SOCIETY HOLDS
FIRST MEETING.**

A short business meeting was held last Wednesday night by the Orton Society. The programs for meetings for the ensuing year

were discussed and committees appointed. Several speakers, well known in the Ceramic world, are expected here this year. Other programs consisting of talks by students will be given.

More enthusiasm is being shown this year and the organization is looking forward to a highly successful year. No student of Ceramic engineering, who wishes to keep in touch with his field, should miss any of these meetings. There is much to be learned outside of text books.

NOTICERoom and Board, \$30 per month.
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