



27 Nov 1935

The Missouri Miner, November 27, 1935

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THE MISSOURI MINER

MISSOURI SCHOOL OF MINES AND METALLURGY

VOLUME XXII.

ROLLA, MO., WEDNESDAY, NOVEMBER 27, 1935

NUMBER 11

FRESHMEN HEAR LLOYD

Psychology Professor Speaks on "Evidence of Man's Animal Descent And Significant Differences Between Man And Ape"

Of all animals, the higher apes are the most like humans, Prof. S. H. Lloyd attempted to prove last Thursday in his lecture on "Evidence of Man's Animal Descent and Significant Differences Between Man and Ape."

This very striking similarity, he continued, is what causes scientists to think that man and the apes both descended from a common ancestor. Although man seems to differ greatly from the apes, there are many resemblances.

Physiological characteristics in which man and the apes are almost the same are the menstrual cycle, blood types, body parasites, and digestive systems.

Psychological similarities are instincts, which are almost entirely missing in man and ape, and emotional expression. The higher apes show pleasure or anger in the same manner that we do.

Embryological evidences of similarity are embryological parallelism, which means that at certain late stages in the development of the embryo that of the ape and that of the human are almost exactly identical. This even extends to a thick coat of hair and a tail about one fourth as long as the embryo.

Vestigial evidences are the third eyelid remaining in part in the inner corner of the eye, rudimentary muscles no longer in use, and the vermiform appendix.

Paleontological evidence includes all the links between the higher apes or their ancestor and modern man, that is, fossil skeletons.

Anatomical evidences are shown by the same number and distribution of bones and organs in man and anthropoid apes.

It is the significant differences between man and the apes which clearly point the reasons for his success. These are his erect stature, his opposed thumbs, his larger and more complex brain, and his ability to talk. Had he not learned to walk erect, man could never have developed his hands to the dexterity which they now possess, and equally so has his opposed thumbs which enable him to grasp things, been of tremendous use. If he could not talk, which means a delicate, sensitive valving of the exhaled breath of which the apes are incapable, he could never have cooperated or learned anything more than his own experience taught him. But of course the larger and more complex brain has the most to do with it, and there lies a great difference between man and ape.

Man has thus been a long time in the making, and most of his achievements come late in his 600,000 years of existence. If this span were compressed into the life of one man, all of his civilization comes in the last year of his life.

LAMBDA CHI TO HOLD HARVEST DANCE

Lambda Chi Alpha will hold their annual Harvest Dance tonight at the chapter house. The dance will be chaperoned by Mr. and Mrs. E. D. Williams, Mr. and Mrs. R. Z. Williams, Mr. and Mrs. DeVere Joslin, Prof. and Mrs. Lloyd, and Mr. and Mrs. F. B. Powell. The music will be furnished by Jimmie Miller and his Varsity Orchestra.

THETA TAU PLEDGES NINE MEN

The names of nine pledges were announced at the Theta Tau meeting held last Thursday evening. The prospective members are Kopp, Wilkey, Holz, Barclay, Luder, Tyrrell, Hillmeyer, Phillips and Housman.

Initiation ceremonies for these men will be held December 5, and a dance is planned for Dec. 7.

A. I. M. M. E. MEETS HERE

National Group Met With Missouri Section of Mining And Metallurgical Engineers

The Missouri Mining and Metallurgical Association was held in Rolla.

The program started, Saturday morning at 9:00 A. M., with Registration on Saturday and Sunday, Nov. 23-24, a joint meeting of Joplin-Miami and St. Louis Sections with traction in the Geological Survey Building. The visitors then made an inspection tour of the school buildings and laboratories on the campus, after which they adjourned until luncheon which was given at the Sinclair Tavern.

At 2:00 P. M. a technical program was offered in the Geology Lecture Room of Norwood Hall; C. F. Williams of Joplin-Miami Sections, and H. S. McQueen of the Geological Survey, presiding. A number of interesting and instructive papers on the Mining and Metallurgical Industries were discussed.

On Saturday evening at 6:00 P. M. M. M. all went to dinner at the Hotel Edwin Long at which Walter E. McCourt was toastmaster. Dr. H. A. Buehler, President of the American Institute gave an interesting and educational talk on his experiences of a recent trip through the Western mining fields.

A number of short talks were given by A. I. M. M. E. officers, after which the party assembled in the Chemistry Lecture Room for a talk on "The Seismograph in Geophysical Prospecting" by Dr. Gerald H. Westby.

Sunday morning was taken up by a field trip of Rolla and surrounding district.

All those who took part in the meeting are to be congratulated on their efforts to make this meeting of the A. I. M. M. E. a success.

GEOLOGISTS TO MEET

The Geological Society of America To Meet in New York

The forty-eighth annual meeting of the Geological Society of America will be held Thursday, Friday, and Saturday, December 26th-28th at New York City. The headquarters will be at the Waldorf-Astoria Hotel.

The twenty-seventh annual meeting of the Paleontological Society and the sixteenth annual meeting of the Mineralogical Society of America will be held in conjunction with the Geological Society.

Doctors Mullenburg and Henchey plan to attend this meeting.

Section E. of the American Association for the Advancement of Science, will meet in St. Louis, Dec. 30th-31st. Joint session with the Seismological Society will be held December 30th.

M. S. M. will be represented by

THANKSGIVING

By Amy Woodward

For warm sunshine that turns young buds to bloom
For hanging clouds that spill refreshing rain
For brilliant sunsets on dark days of gloom
For health, and work that yields the needed gain
Of gold, simple existence to prolong;
For cheer of flowers and their fragrance rare,
For Waxwings flash and Robin's lilting song,
For books and music and comfort of prayer
For silent nights that hide the tears which start
That needs must be unseen tears which we bless
For they are balm sometimes to aching hearts;
For lasting faith and love and kindness
Of souls held dear, which help to light the way;
For these, and more, do I give thanks today.

M. S. M. LOST LOYAL FRIEND IN PASSING OF A. A. SPEER

As Member of Board of Curators, He Was Always A Firm Believer In The Great Value Of The Work Of The School Of Mines

By Dr. C. H. Fulton

A. A. Speer, well known to all at the Missouri School of Mines, as a member of the Board of Curators, passed away at Jefferson City early Wednesday morning, November twentieth, at the age of 77.

He was a distinguished citizen of Missouri and, as his record of achievement is set forth in Biographies and the obituaries in the daily press, the writer confines himself to personal recollections only, as to the manner of man he was.

On his appointment to the Board of Curators by Governor Baker in 1926 he became a member of the Executive Committee and Chairman in 1927, and continued in this capacity until he left the Board early in 1935. During these nine years the writer had ample opportunity to become acquainted with and to gain the friendship of a man remarkable in the actual possession of qualities of character and mind so frequently set forth as the ideals to be achieved by a citizen rendering public service. Mr. Speer gave freely of his time to public questions with never a thought of material reward, resting content in the consciousness of public work well done. Of wide experience in political life, he was never disillusioned in his faith that somewhere in the heart of his fellowman lived that spark of duty that could be fanned to fire for righteous public achievement.

He was widely read in the classics, and his thought was influenced in its fundamentals by the great minds of the Greek and Roman civilizations. He gained from them his truly scientific spirit that led to his profound and deep interest in the achievement of modern science.

It may be said that his intellectual hobbies were mathematics and astronomy. The latter particularly intrigued his mind and he never tired of discussing "Relativity", the wonders of astronomical figures and the awe inspiring vastness of the Cosmos.

Of his more concrete and immediate interests, the Missouri School of Mines stood first. He was thoroughly familiar and in sympathy with the objective and the work of the institution, for in spite of the breadth of his theoretical intellectual interest, he was above all a practical and sapient man, for which his Scotch ancestry may be in part responsible.

He was a firm believer in the great value of the work of the school in aiding the development of the material resources of the state and nation, and in the concept that practical utilitarian training may well be combined with things of broad intellectual interest and culture to make good and better citizens for the republic.

The writer has lost a friend he profoundly admired. When we say "Requiescat in Pace" he understands. He lies in Riverview Cemetery, overlooking the great Missouri, a citizen whose memory for the services rendered, will be long revered.

Dr. Grawe who will attend this meeting.

The section of chemistry of the American Association for the Advancement of Science will hold session in St. Louis on Wednesday and Thursday, January 1st and 2nd.

On January 1st at 2:00 p. m. there will be a joint session with the section of education and with the cooperation of the Division of Chemical Education of the American Chemical Society for the second of a series of three symposia on the relationships of the science of chemistry to education. The subject will be, "The Teaching of Chemistry."

On January 2nd there will be sessions for contributed papers, both in the morning and in the afternoon. Titles and short abstracts of contributions for these sessions will

KIRKPATRICK SPEAKS TODAY IN PARKER HALL

The local A. S. C. E. Society is sponsoring a talk to be given in the auditorium in Parker Hall at 11:00 o'clock today by Mr. R. A. Kirkpatrick, traveling representative of the Union Pacific Railroad. His subject will be "The Parks of Southern Utah". Under this topic, Mr. Kirkpatrick will include illustrations and descriptions of Bryce Canyon, Zion National Park, and Grand Canyon.

He accepted by the secretary.

In the evening there will be a dinner arranged by the St. Louis Section of the American Chemical Society. Following the dinner the address of the retiring vice-president of the section, Professor Joel H. Hildebrand, will be given.

STEAM HEAT DISCUSSED

Union Electric Engineer Tells Of Central or District Heating As Used In St. Louis

Last Thursday evening the M. S. M. Student Branch of the American Society of Mechanical Engineers was addressed by Mr. J. E. Hillemeier, Manager of the Steam Heating Department, Union Electric Co., St. Louis, and the father of one of the senior mechanicals.

Mr. Hillemeier an Electrical Engineer, was a classmate of Dr. H. A. Buehler at Wisconsin U., where he received his degree. He spoke on Central or District Heating in general and Union Electric Company's system in particular.

District Steam Heating is coming into its own in many large cities. The increased cleanliness, convenience and reliability for the nominal increased cost makes it more desirable than heating each separate building. Manhattan, N. Y., is nearly entirely heated by one central plant; and Chicago, Detroit and St. Louis are rapidly building underground steam lines, abolishing separate plants in each building in favor of a central plant.

Central Steam Heating began in St. Louis when the Union Electric Co., in order to get downtown customers to buy electric power all year (Many generated their own power in the winter when they had their own boilers operating) contracted to heat the building as well as light it and supply the electric power. They first began by operating the heating systems that were in the buildings. This proved insufficient and so some steam mains were built from their St. Charles Street booster station to supply heat to the customers in that immediate vicinity. As steam increased more plants in the larger buildings were used to supply heat for the surrounding buildings, an example of this is the power plant of the Cupples Mfg. Co. which is now being used for a standby station.

When demands grew greater the Ashley Street Station on the Mississippi River was built. This is the station which now carries all of the normal load. It is capable of delivering seven million pounds of steam under two hundred and fifty pounds per square inch pressure per hour. There is a twenty inch steel trunk line leading from the plant.

Continued on page six

STAMP CLUB HOLDS MEETING

The Rollamo Stamp Club held a meeting Tuesday night of last week in Parker Hall. The constitution of the club provides that one formal and one informal meeting should be held each month, the informal meeting containing something entertaining and educational, while the formal meeting should be devoted to business. At the last meeting one of the members gave a very interesting discussion of the new Michigan Century stamp of the United States, and Professor Wilson who is a precancel collector, gave a lecture on this particular phase of stamp collecting. He described the different varieties of this division and illustrated his lecture with lantern slides. After the meeting the members adjourned to the basement where a good time was had by all in swapping and chewing the fat. The club is not only for students but has several townspeople as well as two or three of the faculty among its members.

THE MISSOURI MINER



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FACULTY ADVISER DR. J. W. BARLEY

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MORE MAIL

Dear Mr. Editor:

Are the athletic letters given at the School of Mines bootleg or contraband? If not, why are they handed out behind the Gym in the dark at midnight? Or is it possibly some other unlikely place and untimely hour?

When honors are won in scholarship, they are conferred in an open assembly of the student body. Tau Beta Pi awards its sliderule openly and so does Phi Kappa Phi its book-plates. Also, each of these organizations are proud to pledge their new men at a mass meeting. However, I have been at M. S. M. for the past three years without seeing the letters awarded for athletic achievement. Is the earning of a letter at M. S. M. such a trivial honor that it deserves no public recognition?

Is it that sweaters are not awarded with every letter? Other schools and colleges award letters for sports, some of them never giving sweaters. Any way, the actual sweaters need not be given out in the mass meeting. Is it that sufficient publicity is given at the banquet given the football players? I feel this to be quite a fitting climax to a season of hard work for the players. Still, most of the student body cannot attend and do not know what goes on at this affair. Then, too, there are other sports such as basketball, track, etc., whose players are not feted to banquets!

A great deal is heard these days about lack of school spirit on the campus. One move in promoting better school spirit would be a real, honest-to-goodness, peppy mass meeting at which every student and faculty member (all should be there!) is informed of those earning the award for proficiency in football. Also, such public recognition would make our athletes feel they are representing M. S. M. as a whole, not just playing for the sport of the thing, for the athletic department or for the coaches. An emblem thus awarded would be more proudly worn on the campus and flashed in the public eye. At least, the student body would have a chance to know when a fellow student is eligible to wear the "M".

Very Sincerely,
Not-an-Athlete.

Dear Ed E. Toar:

In the last edition of this 'squawk' there appeared under your column a letter from some dawk bearing the handle of 'A Pest' I should like to answer Brother Pest's twerp pertaining to the local 'thirty-five cent struggle'.

First off Mr. Pest seems to be quit aggitated about the conditions at the local flicker pertaining to the type and character of the pictures shown.

Well now brother 'Pest' I am not well acquainted with the expenses and operation of a 'pitcher-show' but I would like to point out a few facts that I have noticed in the three and some odd years at this institooshun.

I am just wondering if you have ever been a customer of a show in a town of this size in some other locality? It so happens that I have lived in several towns about this size and I might mention that I never seen a picture show of the size and comfort of the one we have gracing this berg. The average town of this size has one or two shows of the 'dime agony type' with seating capacity less than half of ours and a ventilation system that would do injustice to a 3,000 foot level of a poorly ventilated mine. It is so ducky to come in the door and walk down the isle, which emits more noises than a boiler works, then sit down next to some guy that has been working all day and forgot to take a

shower. About that time the picture that has been jumping all over the screen vanishes for five minutes or so while the audience exercises their vocal cords and the roof jumps up about three feet. You have your choice of sitting next to the door and having every one tripping over your tired dogs, or perhaps you can find a seat under the fan that would be comparable to any West Indian hurricane. If you are lucky you might find a cozy spot in the rear of the establishment and receive about as much pure oxygen as you would find ten miles in the stratosphere and by the time the show is over you are practically worn down to nothing trying to catch a bit of air. Of course there are always the cute kids that crack peanuts and toss the remains on your coat, hat or even the floor at times, not to mention the noise that accompanies this operation.

In the local cinema there are shown every week five shows among which are all the shows that you would see in any large city. At the rate of five per week that would make 260 shows per year or an average of .71 shows per day. Now my dear friend if you are at all familiar with the length of time it takes to make a 'movie', even a western or some allied type, you may readily see that they are not turned out on the basis of the well known Ford cars. With the rate of change of shows as are in progress at the local 'jernt' just how in the hell do you expect to have the pictures of your liking every other night?

Well now enought of that item, now for the second part pertaining to a tripe from other student papers and news from other schools.

Perhaps I'm again wrong but the students like to read news of something or some one whom they know—that is news. What the hell do we care about what the physics prof. of Oskosh Jr. College had for lunch last Tuesday, or something of equal importance. This paper is written, by and for the dopes in this institution and it is for them to take an interest in it's upkeep. It is up to the students to create some interest in activities about this campus. When we have a football game on our own field we have a handfull of students in the stands and 75% of the student body sitting at home reading a western magazine or something of the sort. You say youth is energetic, forceful, and being such requires action—yea, and at the same time the few ginks that do manage to stumble into the stands for a football game stand around with their teeth in their mouth and yell at the freshman to "talk it up" while they chin with some sweet young thing. Maybe you are correct about all this action, but if we are going to have some action lets have action at home. I know that this is a little beside the point but I still fail to see all the action.

*Ye 'ole Ed. E. Toar adds some twerp about the cleaning and pressing 'hold up'. Well again, I am not acquainted with the economics of running a cleaning establishment (I haven't graced Orton's little group as yet) but I just would like to ask the Ed how many of the customers of the local cleaning shoppe do not owe that place any money? Take a gander at the pocket size credit book of one of these places and see for yourself how much money is still at large among the student customers.

Guess we'd better get out the 'ole mattress and press up the glad rags. Enough of this tripe. Stay in there an' pitch Pestie 'ole keed,

Joe (Windy) Blow.

ST. PAT'S BOARD FINANCIAL STATEMENT

Statement No. 1

Receipts:	
Balance on hand from 1934-35 Board.....	\$188.79
Interest on Time Deposit.....	4.50
Piano Rent	10.00
Freshman Dance	56.65
Homecoming Dance	178.89
Two Organizations for Flowers 1935 St. Pats.....	5.00
Total Receipts.....	\$443.83

Expenditures:	
Safety Deposit Box Rent.....	\$ 2.07
X. Smith	1.55
Gym Sept. 13th	3.00
Telephone Calls	1.90
Orchestra Sept. 13th	35.00
Spangles	2.02
Gym Oct. 19th	3.00
Orchestra Oct. 19th	75.00
Standard Store (For Cloth)	1.78
Printing	11.00
G. Nations (Expenses-1935 Monte Carlo Dance).....	2.22
M. S. M. Alumni Association (% of Homecomin Dance).....	23.11
Total Expenditures.....	\$161.65

Balance on hand Nov. 1, 1935.....\$282.18
Audited

Chairman of Board of Control
K. Kershner

Treasurer
R. W. Simmons

ALONG WITH PRESIDENT ROOSEVELT'S 'GOOD NEIGHBOR POLICY'

Definitions of a "Good Neighbor"

1. A student who insists on paying his dues before voting in the class election.
2. A fellow who lends you an eraser during a quiz without too much grumbling.
3. The borrower of the eraser who returns it promptly.
4. The fellow who "saves" the class by always having his slide rule handy.
5. Any student who, after borrowing your experiment write-up,

does not turn his in a day before yours.

6. The big burly chap walking just behind you who claims he also is a Freshman when you're confronted by three Sophomores.

7. A Senior in Mining who has a word of encouragement for a C. E. taking Rocks and Minerals.

8. A prof. who admits he doesn't know everything.

9. The instructor who "allows" for occasional absent-mindedness on the part of the student.

10. The professor who ends his lecture in 49 minutes.

11. Any professor who writes out on the board those complex technical terms.

ALUMNI NEWS

Paul Trotter is with the State Highway Department at Hayti, Mo. Howard G. Halsey, '14, is with the Resettlement Administration, Washington, D. C. He has just completed the building of forty-eight houses at Decatur, Indiana, where he was Resident Engineer.

D. J. Doan, '35, and Jack Gastn, '34, of the Research Department of Eagle-Pitcher Lead Co. Joplin, Mo., conducted some research work in the laboratories of the Metallurgy Department in October.

Nick Gilsdorf, '35, writes from Washington, D. C., that he and Dan Weissman, '35, have both recently received employment there with the Photogrammetric Section of the United States Soil Conservation Service. Nick is working as a Junior Engineer and Dan as a draftsman. The position was secured through Edward A. Schuch, a former Miner who is in charge of this section. J. B. Woodward, another former Miner, is also working in Washington for the Soil Erosion Service.

James C. Compton, '09, of McMinnville, Oregon, visited in Rolla during the latter part of November.

Dave Howerton, '35, is visiting in Rolla this week. He is now working with the Republic Steel Corporation in Chicago, Illinois.

M. S. M. is well represented at the Braden Copper Company, Sewell-Rancagua, Chile: J. S. Webb, ex-20, is mine superintendent; E. J. Torrence, '22, is assistant mill metallurgist; Mike Ledford, '26, is retrain foreman in the mining department; W. H. Elbert, '12, is assistant mill superintendent; M. L. Dorris, '23, is general refining foreman in the smelting department; B. R. Coll, '29, is assistant tails dispersion foreman, in the milling section.

Dr. L. E. Young, former Director at M. S. M., now vice-president of the Pittsburgh Coal Company, entertained at luncheon on Saturday, November 16th, in honor of Dr. H. A. Buehler. The Pittsburgh Section of the A. I. M. M. E. entertained in honor of the "Chief" at dinner at the University of Pittsburgh Faculty Club. There were about fifty members of the Institute present. Among those present were the following M. S. M. men: E. P. Barrett, '09, G. E. Crays, '29, V. H. Gottschalk, '00, H. H. Kaveler, '27, L. Schumacher, '22, W. I. Short, '26, J. T. Ericson, '07, W. G. Hippard, '20, J. P. Gill, '18, and C. J. Potter, '29.

Michael Young, '33, chemist for the American Smelting & Refining Company of Chihuahua, Mexico, was married in November to Miss Esperanza Cordero of Chihuahua, Mexico. After a honeymoon trip to San Antonio, Mr. and Mrs. Young will return to Chihuahua where they will make their home.

Frank H. Seamon, '31, Professor of Chemistry at the College of Mines and Metallurgy at El Paso, Texas, celebrated his 20th anniversary with the college on November 23rd. Professor and Mrs. Seamon live at 808 Upson Avenue, El Paso.

John L. Moore, '32, has been transferred to the Research Laboratories of the Empire Gas & Refining Company at Okmulgee, Oklahoma. He is living at 501 N. Grand Avenue in that city.

Rowe McCrae, '09, spent a few days in Rolla the early part of November, enroute to South America, where he will be employed as mill superintendent for the Compania Huanchaca de Bolivia, at Pulacayo, Bolivia.

E. R. Mertz, '33, is now assistant metallographer at the Aliquippa Works of Jones & Laughlin Steel Corporation. He is residing at 844-846 Brodhead Road, Aliquippa, Pennsylvania.

12. The mentor who does not assume at the start that every student is a "pistol".

13. And the professor and or student who, after reading the above, seriously tries to improve.

With apologies to H. I. Phillips.

Dr. Joseph Remenyi, lecturer in comparative literature at Cleveland College, is completing his latest book, "Series of American Literary Portraits of Nineteenth Century American Writers." The book is written in Hungarian and will be published in Budapest.

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H. Kaveler, '27,
W. I. Short, '24,
W. G. Hippard,
and C. J. Pottier.

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KEEP IN
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MODERN BARBER SHOP

9th and PINE
Streets

THRU THE TRANSIT

By Flash



They tell me that was quite an affair down at Cape the other night after the football game. The boys were celebrating the end of the football season, and from all rumors, it was quite a celebration. Wilkey was seen running around with a nipple on his bottle giving everyone a drink. That's just like him to be so generous and big hearted. If we didn't know him better we would say that he had robbed the cradle, and who knows but what he didn't?

In their ramblings around Cape, the boys said that they found a place to stay out of, and that was the Rainbow Room. When the bill was brought around, there was some scraping, and scrapping done in paying up. The boys had been paying thirty-five cents a pint for seven up, and ice was two bits a bowl. We thought that the boys were educated, but evidently they need a little more practice.

Some of the boys took a notion to take a trip up to the Ozark playground last Saturday night, and who should they see there but the "Widow". Ask her who she was there with boys. No it wasn't the same one she was with Saturday before last.

While the freshmen were burning their caps last Saturday, one of the town boys drove through the mob, and hit Shippee. Of course, that didn't set at all well with the Miners, and the culprit was promptly wrinkled. However, his companion, by far the smallest of the two, offered to take the Miners on and the boys let him get away with it.

The night club was fairly quiet as far as the Miners were concerned Saturday. The joint was running full blast and then some, but the crowd consisted mainly of C. C. C. boys, and some of the town guys. The old stand by Bill Johnson was there, but that has gotten to be a

THE BRAIN TEASER

The woman mentioned in last week's brain teaser could not be sentenced to prison because she was one of two siamese twins. Thus if the judge sentenced the guilty sister, the innocent sister would have to be confined to prison also.

During the summer of 1933 a prominent Englishman and his wife planned a trip to Switzerland. The Englishman went to the local ticket agent and arranged passage on the train for himself and his wife to Switzerland. The society columns of all the newspapers announced this trip with comments to the effect that although these two prominent people had been contemplating a divorce, it now appeared that the two had become reconciled and were starting on a second honeymoon.

These two people made the trip to Switzerland. After they had been shown many of the beauties of the Alps by the local guides, they decided to do some climbing by themselves. They started out early the next morning and scaled one of the high peaks. While on top of this peak the husband pushed his wife off of the edge. She fell about 500 feet and was killed. This man then returned to his hotel with the story that his wife had accidentally fallen and had been killed. Since no one had witnessed this crime, this man's

habit with him by now.

Johnny McCloskey strayed a little Friday night. It seems that he heard that his gals folks didn't approve of him, so he was drowning his sorrows. However he got the whole thing straightened out the next day when he heard the true story. Where did you get the original information Mac?

Shepherd started to tag one of the gals at Mitterdorf the other night, and just as he was approaching her, the gal turned her head and said; "sorry", and danced off. What is this power you have over women Tex?

First we hear of O'Bannon cutting dresses; and now we hear that he removes his trousers before the opposite sex, for the sum of ten cents. What a man.

We hear that Soapy Casteel can break chairs at a certain young ladies house and get away with it. Well, Soapy, if you can handle a woman, you should be able to handle the Sophomore class.

Has anyone kept count of Joe Murphy's black eyes? We suspect Joe has lost count.

"Bring Them Back Alive" Scarborough set forth on his big game hunt in Norwood Hall. His first result was a very large mouse. The mouse charged, but Ralph's trusty elephant gun saved his life.

Would the Turk show his mother those artistic pictures that he carries around? The fig trees must have lost all their leaves in the drought.

Some student could make himself most popular student on the campus by starting a petition that the "Esquire" be restored to its former position.

We doubt that the law liked the over-ripe fruit diet served them Saturday night in front of the theater. We are certain the Miners had nothing to do with the serving of the fruit. Maybe somebody was playing "Upset the fruit basket".

story was accepted and published in many newspapers. He returned home apparently very grief stricken.

One day while he was having dinner in a restaurant, a man came in, noticed this prominent Englishman, and went directly to his table. He came directly to the point. He said, "Your wife was not accidentally killed, you murdered her. You even planned this murder before you left London."

He then went on to explain how he knew this to be a fact. Although this prominent Englishman had only seen this other man once before while making a purchase from him, he admitted his guilt, turned himself over to the police, and made a full confession of the whole plot.

The question for you to solve is how did this one man know that this prominent Englishman had planned this murder before leaving his home city, London, to make this trip through Switzerland?

COLLEGE STUDENTS DO NOT WANT WAR

The college youth of America definitely do not want war, and can be expected to oppose vigorously and actively any effort to drag the United States into the general European war many experts predict will arise out of the Italo-Ethiopian conflict.

This is the belief of Associated Collegiate Press correspondents who have just completed a survey of student opinion on the subject.

Outstanding among the conclusions reached as a result of the survey are these:

1. While most American students are decidedly sympathetic with Ethiopia in the present undeclared war in Africa, opinion is divided as to the wisdom of the United States joining the League of Nations in the application of aggressor penalties against Italy, with only a minority support!

2. Today, more students than ever before are prepared to view with cynical skepticism the flag-waving jingoism and propaganda so successfully used to drive America into participation in the World War.

3. The flood of books, pamphlets and magazine articles exposing the origins of past wars, and particularly the World War, has found a wider circulation among college students and instructors than among college students and instructors than among any other group of the American public as a whole.

4. The number of "conscientious objectors" and pacifists in the colleges and universities, both those who would refuse to enlist for a foreign war and those who are pledged not to fight for any reason, has vastly increased during the past few years.

What collegiate America thinks of war is best expressed in the following editorial from the Northeast Missourian, student publication of Northeast Missouri Teachers College. The article has been widely reprinted in the college press:

"We the young people of today, are faced with a world preparing for war. Italy is rapidly forcing the issue in Ethiopia; Great Britain is rushing her navy to the Mediterranean; the United States is steadily increasing its military expenditures and following policies which threaten to plunge us into

the melee. The league of Nations is a peace organization in name but is powerless to avert war unless Italy retracts, and Italy will not retract as long as there is a possible chance to gain land and resources. War in Europe seems inevitable.

"The United States must not be drawn into mess. The young men of America are too valuable to waste in a squabble between selfish nations in Europe; American resources are too valuable to blow up in gun powder.

"We feel the need for constructive and dramatic demonstration against the rising war tendencies of our nation. We must bear down strongly on peace education. We must demonstrate our determination not to be cannon-fodder for future wars."

GEORGE ECKERT HAS ARTICLE PUBLISHED

An article entitled "Insects as Chemists" by George W. Eckert, formerly student assistant in Chemistry at M. S. M. and now student assistant at Missouri University, appeared in the Nov. 7, issue of the Science Leaflet.

In his article Mr. Eckert tells how insects are mans nearest rival in chemistry. In their fight for existence, they have developed a great number of substances which aid in their protection and survival, and these substances, in most cases, are secretions of glands or the products of special organs.

The different products which are formed by insects may be classified as adhesives, chemical warfare agents, honey dew, light, paper, pigments, poisons, resins, scents, silk, and waxes.

He follows up then with a discussion of each article.

Mr. Eckert has had several articles in the Science Leaflet, a weekly publication for students of science. He recently had an editorial, on a limerick "Caustic Remarks," published.

Honors in their college entrance examinations were won in the fall of 1934 by 109 Harvard University (Cambridge, Mass.) freshmen.

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ST. PAT BOARD PLANS MONTE CARLO DANCE

A bi-weekly meeting of the St. Pat Board was held last Wednesday night in which reports were heard from several men.

It was announced that the Board received \$5.30 for cloak room service at the Inter-fraternity dance.

The Board was successful in obtaining Fred Smith's pool hall and members were selected who were to work at the tables.

The next St. Pat Board dance will be held the second week in January. It will be a Monte Carlo dance which proved a big hit with the Miners last year.

PROGRAM

ROLLAMO THEATRE

Matinee: 1:30 and 3:30
Night: 7:15 and 9:00

WEDNESDAY AND THURSDAY,
November 27 and 28

Gala Thanksgiving Show
Will Rogers in
His Last and Greatest Picture

"IN OLD KENTUCKY"

ALSO

"Tickets Please" and
Latest News Flashes

SPECIAL MATINEES

Wednesday 3:00

Thursday, Thanksgiving Day
1:30 and 3:30

Matinee Admission 10c and 25c
Nights 7:15 and 9:00
Admission 10 and 35c

FRIDAY, NOVEMBER 29TH
Claire Trevor and Ralph Bellamy in

"NAVY WIFE"

ALSO

"Dog Days", "Misses Stooze"
Admission 10 and 25c

SATURDAY, NOVEMBER 30TH
MATINEE and NIGHT

"POWDERSMOKE RANGE"

featuring the greatest all western cast ever assembled in one picture
Harry Carey, Hoot Gibson, Tom Tyler, Wm. Farnum, Art Mix, Guinn Williams, Bob Steele, Buzz Barton, Wally Wales, Buffalo Bill, Jr., Buddy Roosevelt, Franklyn, Farnum, Sam Hardy, Wm. Desmond and Lester Cunico

ALSO

Short Subjects
Admission Matinee 10 and 15c
Night 10 and 25c

SUNDAY AND MONDAY,

December 1 and 2

The Grandest Romance Ever
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"THE THREE
MUSKETEERS"

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Walter Abel

ALSO

"Hollywood Capers"
Latest News Flashes
Admission Matinee, 10 and 25c
Nights 10 and 35c

TUESDAY, DECEMBER 3RD

BARGAIN NIGHT

Gary Cooper and Harding in

"PETER IBBETSON"

ALSO

Selected Short Subjects
Admission 10 and 25c
or TWO for 10 and 35c

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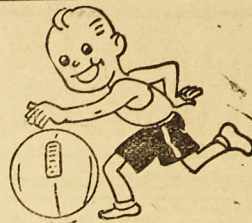
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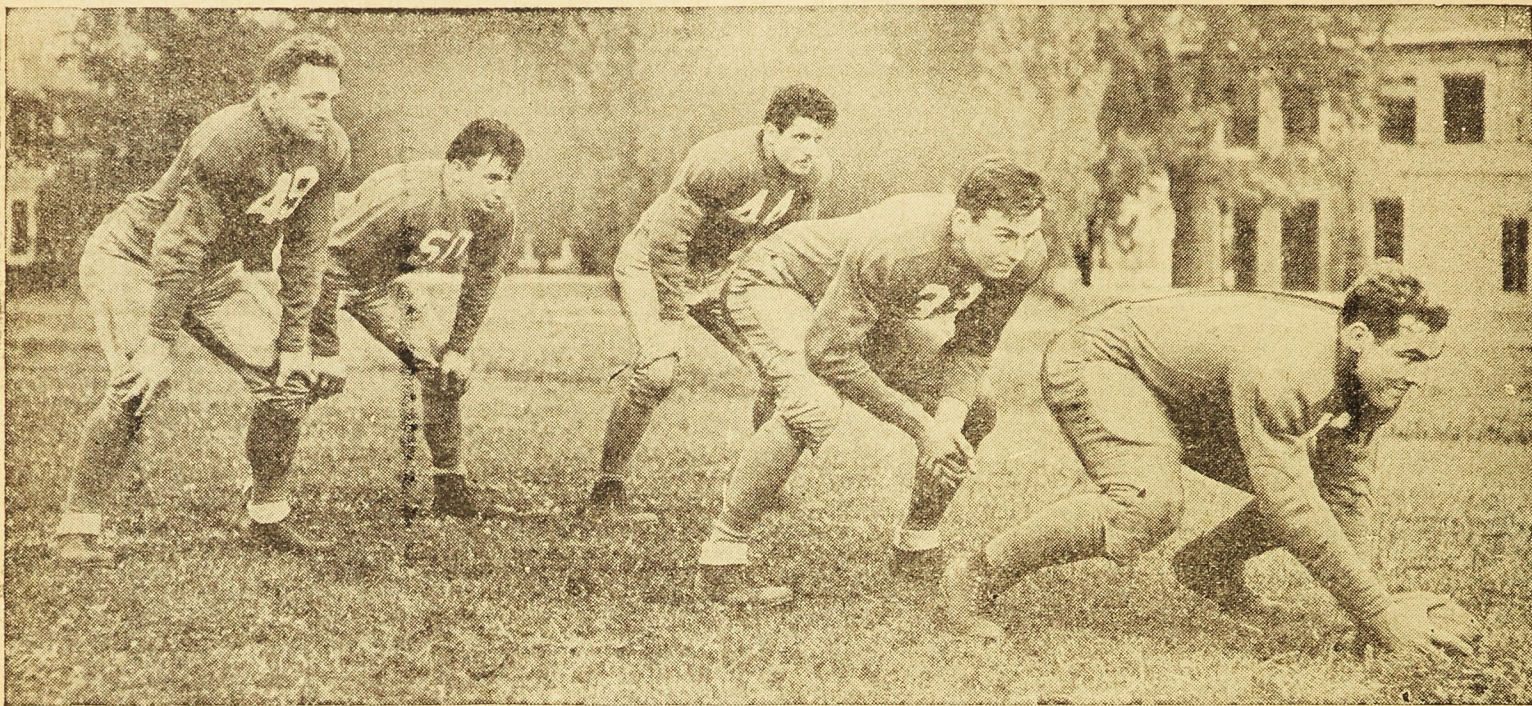
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SPORTS



THREE MINER BACKS AND END WHO HAVE PLAYED FINAL GAMES



THE MINER BACKFIELD—Three of these backfield aces have completed their intercollegiate football career, and when the starting whistle for the 1936 season blows, will be bucking engineering projects instead of lines. From left to right they are Co-Captain Fred Schwab, Co-Captain Neil Plummer and Halfback Jim McGregor. Herman Pfeifer, shown over the ball has also played his last game. Directly behind Pfeifer is Melvin Nickel, who still has two years as quarterback. Incidentally this is the backfield that has started most of the games this year.

—Courtesy Daily Oklahoman.

A/P PICKS ALL MIAA TEAM

Nine Miners Gain Honorable Mention in State Poll; Four Kirkville Players on First Team.

By LEO BRANHAM, Associated Press Sports Writer, KANSAS CITY, MO., November 22.—Four members of the championship Kirkville eleven were named on the 1935 M. I. A. A. all-conference football team selected by the Associated Press from votes cast by conference coaches.

Cape Girardeau was represented with three players, Warrensburg with two and Maryville and Springfield with one each.

First Team.

On the mythical all-star first team are Noble, tackle; Maddox, end; Alexander, half back, and Post, full back, all of Kirkville; Godard, Walt Metje quarter back, and Crites, end, from Cape Girardeau; Brown, half back, and Ramsey, guard, from Warrensburg; Palumbo, center, Maryville, and Lewis, guard, Springfield.

Luke Palumbo, captain and center on the Maryville eleven, was named on the all-star team for the third straight year. He was the only one of 50 candidates in the first and second team balloting who received a unanimous first-team vote.

Palumbo, on the strength of this vote, was designated captain of the all-stars.

Metje Shades Rulon.

Close behind Palumbo in number of votes were Crites of Cape Girardeau and Ramsey of Warrensburg.

The vote for W. Metje of Cape Girardeau and Rulon of Maryville was close, but Metje shaded the Maryville signal-caller for a first-team nomination, Rulon being placed on the second eleven.

Rulon and Hammer of Warrensburg were highest and tied in the second-team voting. They were named co-captains.

An interesting result of the voting was that Cavanah of Kirkville, at present the leading conference scorer with 34 points, earned but a second-team nomination as full back.

Kirkville also placed four men on the second team, Wilson, Flesch, Hanna and Cavanah. Others named were Van Horn, Newell and Hammer of Warrensburg, Hrebec of Springfield and Rouse, Zuchowski and Rulon of Maryville.

Rolla Miners, who have not won a conference game, failed to capture a single place on either team, but several players received honorable mention.

First Team.

L. e., Crites, Cape Girardeau.
L. t., Noble, Kirkville.
L. g., Ramsey, Warrensburg.
C., Palumbo, Maryville (Captain).
R. g., Lewis, Springfield.
R. t., Godard, Cape Girardeau.
R. e., Maddox, Kirkville.
Q. b., W. Metje, Cape Girardeau.
H. b., Alexander, Kirkville.
F. b., Post, Kirkville.

Second Team

L. e., Van Horn, Warrensburg.
L. t., Hrebec, Springfield.
L. g., Wilson, Kirkville.
C., Flesch, Kirkville.
R. g., Rouse, Maryville.
R. t., Newell, Warrensburg.
R. e., Zuchowski, Maryville.
Q. b., Rulon, Maryville (Co-Capt).
H. b., Hanna, Kirkville.
H. b., Hammer, Warrensburg (Co-Captain).

F. b., Cavanah, Kirkville.
Honorable mention: Ends—Murphy (Rolla), Smith (Kirkville), Spradling (Springfield), and McCall (Springfield). Tackles—Adams (Cape Girardeau), Molitoris (Maryville), Egan (Kirkville), Stella (Rolla), Claybaugh (Maryville), Appleyard (Rolla), Alyward (Rolla), and Laws (Warrensburg). Guards—Flanders (Maryville), Livingston (Maryville), Wilkey (Rolla), Hoombs (Kirkville), Har-

INCIDENTS OF THE CAPE TRIP

Miners Review Cape's Feminine Population. Envy of Teacher's Opportunities Stirs in Many Manly Breasts

Those Cape Indians surely know how to make their students get out and cheer, if the Miners had such fair bits of femininity to lead their cheers, everybody would be out, to the games if only to watch the cheer leaders. Before the game, down in the hotel, the girls led some ripping cheers for Captain Plummer and coach Thornton. Most of the boys had gone out to see the town however, so comparatively few of the Miners had the chance to be diverted from the coming game.

Little Mel, the boy who likes to wear his tux, was getting along famously with a couple of Cape dolls until he told them he was stopping at the Markwet Hotel.

After that laugh, he stopped talking to girls and really played some football.

The boys who were able to stay in Cape Friday nite and attend the big dance report that a very satisfactory time was had by all. Judging by the number of pretty girls seen at the game, it must have been.

The Teachers Band spelt out ROLLA during the halftime intermission, and in the beautiful setting of Houck Field, it was very impressive. Incidentally, the Stadium was one of the nicest the Miners have visited all year. The playing surface however was entirely devoid of any grass and reminded one of the old Jackling Field.

EPSILON PI OMICRON MET WEDNESDAY

Epsilon Pi Omicron Society met Wednesday evening, Nov. 19, 1935, at 7:30 in the Chemistry Lecture room. The meeting in charge of president, O. H. Fager, consisted of business matters, and was a very short one.

vay (Warrensburg), Mattel (Rolla), and Bayless (Springfield). Centers—Mesley (Springfield), Allen (Warrensburg), and Swan (Cape Girardeau). Quarterbacks—Miller (Kirkville) and Stephens (Springfield). Backs—Berry (Springfield), McGregor (Rolla), Strange (Warrensburg), Bona (Cape Girardeau), Good (Maryville), Nickel (Rolla), Schwab (Rolla), Sorenson (Maryville) and Parke (Cape Girardeau).

Advertise in The Miner

DR. WIEDERMAN SPEAKS AT IRA REMSEN MEETING

Dr. Wiederman, consulting chemical engineer of St. Louis, gave a very interesting illustrated lecture on "Chemical Lime", to the Ira Remsen meeting, Wednesday evening, Nov. 13.

"The lime industry in the St. Louis area had been almost extinguished out of existence because the building trades and other industries were no longer using lime products. Recently there has been a rapid increase in the production and use of lime in this area, due to the chemical industries such as paper manufacturing, Mansants Chemical Company, manufacture of baking powder, glass industries, ceramics and many others.

Seniors at the Newark College of Engineering have voted in favor of allowing women to enter their classes.

Football's longest run from scrimmage was made by Wylls Terry of Yale, against Wesleyan, November 4, 1884. Terry ran 115 yards for a touchdown, starting from five yards behind his own goal line. The feat could not be duplicated today. It has been impossible since 1912, when the old 110-yard field was shortened to the present 100-yard length.

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MINERS LOSE AERIAL BATTLE 20 TO 0

THREE HUSKY TACKLES---ONE A SENIOR



BRUISERS—Three 6-foot, 200-pounders who have been competing for the tackle position all year. Left to right: Frank Appleyard, Harry Stella, and Andy Aylward. Both Appleyard and Stella will be back next year, providing the Miners with the best set of tackles in the state. Appleyard has had three years experience and will be plenty hard to stop next year. Stella is a freshman and has three years to play. Giant Andy Aylward has played four years on Coach Grant's eleven and will be missed next season.

—Courtesy Daily Oklahoman.

MINERS LOSE TO INDIANS IN AERIAL BATTLE

Indians Score in Every Quarter But First, When Miners Play Heads Up Football; Let Down in Last Three Quarters Costs Three Touchdowns; Miner Pass Defense, Blocking, And Tackling Still Off.

The Cape Teachers took the Miners into tow Friday afternoon 20-0 down at the Cape. This victory gives the Cape Teachers second place in the M. I. A. A. conference while the Miners reign undisturbed in the cellar.

The first quarter was scoreless with the ball sea-sawing back and forth close to mid-field. Hall, Cape half, carried the ball 20 yards on a very nice run in the second quarter. Two plays later Hall passed to Metze who raced 20 yards before being knocked out of bounds on the 3 yard line by Schwab. Metze, on a double lateral, went over for Cape's first touchdown. Late in the third period Bona, Cape's star back, heaved a 40 yard pass to his right end far over the heads of the Miners, for the second Cape score. The final period opened with a Cape pass to Bona good for 30 yards. Hall flipped a pass into the end zone to Bona on the next play for the final score. Cape was successful on two attempts to convert after touchdown.

The Miner defense featured necktie tackling. The fast and elusive backs of the Indians seemed to be without legs, and all neck, when tackled.

Coach Grant made frequent substitutions throughout the entire game. In the last quarter an entire new team took the field for the Miners. These reserves will make up next years varsity, and from the type of football they displayed against the strong Cape varsity, next year should be much brighter for the Miners than has been the

TOO MANY PASSES

Miners	Positions	Cape G.
Pfeiffer	LE	Critz
Stella	LT	Goddard
Mattel	LG	Conrad
Prough	C	Swan
Wilkey	R.G.	Best
Appleyard	R.T.	Adams
Murphy	R.E.	Walters
Nickel	Q.B.	G. Goodwin
Schwab	H.B.	Obermiller
McGregor	H.B.	Hall
Plummer	F.B.	Parker

Substitutions: Miners; Boorkey, Vahle, Aylward, Wright, Hubbard, Folsom, Holman, Loveredge, Payne, Grewis. Cape; Bona, Metze, Godwin.

past season.

Seven Miner seniors played their

FRESHMEN TAKE SOPHS

The grid classic of the season, the traditional Freshman-Sophomore Football Game, was staged Saturday to unofficially wind up the Miner grid season. And as a result the yearling men shall no longer trot around wearing their symbolic bonnets. For several years due to objections from various sources the game has been unplayed. But this year the objections were overcome and over-ruled and the student body, surprisingly, saw a good game in which the Frosh clocked out a 9-7 victory over the second year men.

Early in the first quarter the Frosh grabbed two points from a safety after nailing Blish behind the double strip on a fumble. And in this way they gained the points which gave them their narrow margin of victory. Then in the third quarter, when on the fourth down a bad center gave the Freshman the pigskin on the Sophomore 17 yard line, they carried the ball to the six yard line and Mast lugged

last game on the striped grid-iron of their alma-mater. Co-captains Neil Plummer and Fred Schwab have been on the squad since they were freshmen, lettering each year. Johns Hubbard and Jim McGregor also have lettered four years on the Miner squad. Andy Aylward has been on the squad for three years while Hermann Pfeiffer and Wendel Folsom have each played two seasons for the Silver-Gold.

Football Summary

1935 FOOTBALL RESULTS

MINERS 6; McKENDREE 0
MINERS 0; ST. LOUIS U. 38
MINERS 2; SPRINGFIELD 7
MINERS 6; WARRENSBURG 20
MINERS 0; MARYVILLE 7
MINERS 6; OKLAHOMA CITY 27
MINERS 6; KIRKSVILLE 13
MINERS 0; CAPE GIRARDEAU 20

M. I. A. A. STANDINGS

Team	Played	W.	L.	T.	Pct.
Kirkville	5	5	0	0	1000
Cape Girardeau	5	3	2	0	600
Warrensburg	5	2	2	1	500
Springfield	5	2	2	1	500
Maryville	5	2	3	0	400
Missouri Miners	5	0	5	0	000

(Tie games count as one-half won and one-half lost)

M. I. A. A. SCORING

Name-Team	TD.	PAT.	FG.	TP.
Cavanah, Kirkville	4	7	1	34
Brown, Warrensburg	4	0	0	24
Stephens, Springfield	3	1	0	19
Alexander, Kirkville	3	0	0	18
Bona, Cape	3	0	0	18
Post, Kirkville	2	2	0	14
Metze, Cape	2	0	0	12
Miller, Kirkville	2	0	0	12
Zuchowski, Maryville	2	0	0	12
Rulon, Maryville	1	3	0	9
Parker, Cape	0	5	1	8
Ramsey, Warrensburg	0	4	1	7
Hammer, Warrensburg	1	1	0	7
Van Horn, Warrensburg	1	0	0	6
Spradling, Springfield	1	0	0	6
Dow, Warrensburg	1	0	0	6
P. Jones, Cape	1	0	0	6
Sorenson, Maryville	1	0	0	6
Lloyd, Cape	1	0	0	6
Bapst, Warrensburg	1	0	0	6
Eller, Kirkville	1	0	0	6
Maddox, Kirkville	1	0	0	6
Murphy, Miners	1	0	0	6
McGregor, Miners	1	0	0	6
Crites, Cape	1	0	0	6
Berry, Springfield	0	1	0	1

M. I. A. A. RESULTS

Maryville 7; Springfield 0	Miners 0; Maryville 7
Warrensburg 13; Cape 16	Springfield 13; Warrensburg's 13
Miners 2; Springfield 7	Cape 0; Kirkville 20
Warrensburg 9; Kirkville 10	Kirkville 18; Maryville 6
Miners 6; Warrensburg 20	Cape 0; Springfield 6
Kirkville 27; Springfield 0	Maryville 2; Warrensburg 3
Cape 20; Maryville 7	Miners 6; Kirkville 13
	Miners 0; Cape 20

the pill across for six more points. The extra point was secured when Holliday flipped the ball to Brown over the goal line. This completed the tallies of the Freshmen for the afternoon.

The Sophomore touchdown came in the fourth quarter. With but a few moments left to play Blish, standing on his own forty yard line, tossed a magnificent pass to Ballman on the five yard line who then romped across the line standing up. The kick for the extra point by Blish was squarely between the crossbars making the score 9-7. The Sophomores then kicked and the game ended as the man bringing the ball back was hit on the thirty-five yard line.

The game, as every one who saw it will agree, was far from the sandlot affair expected. Of course considering the conditions and the amount of practice laterals, trick plays, and spread formation were highly out of order and the principle means of gaining ground was by good old smashing line plays with a few passes to vary the method of offense. Laterals were attempted a couple of times by the Frosh but they proved rather ineffective. As in any football game,

kicking played a major part and both teams were fortunate in having men in the backfield who did excellent ball booting throughout the afternoon.

As stated before it was an exceedingly good game and we hope to see as fine a one next year between the class of '39 and the class of '40.

Starting Lineup.

Soph	Position	Frosh
Carroll	LE	Tuckett
Machens	LT	Todal
Casteel	LG	Gardner
Prange	C	Rea
Rogers	RG	Allgeyer
Turner	RT	Mann
Yungbluth	RE	Overbeck
Blish	QB	Mast
Fernandez	LH	Holliday
Ballman	RH	Elliott
Beckman	FB	Ulak

Soph—Seibert, Radcliffe, Clayton, McCloskey, Tiede, Kuhlmann, Ellis.

Frosh—Haynes, Brown, Glover, Mooney, Wilson, Clancy, Gardner, Creelius, Underwood, Johnson.

Officials:

Referee—Coach Brown.
Field Judge—Fred Schwab.
Head Linesman—Ozzie Holman.

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SEE THOSE NEW M. S. M. BANNERS at SCOTT'S--The MINER'S CO-OP and BOOK EXCHANGE

TWASHTI, WOMAN-HATER

At the beginning of time, Twashti—the Vulcan of Hindu mythology—created the world. But when he wished to create a woman, he found that he had employed all his materials in the creation of man. There did not remain one solid element. Then Twashti, perplexed, fell into a profound meditation from which he aroused himself and proceeded as follows:

He took the roundness of the Moon, the undulations of the serpent, the entwining of clinging plants, the trembling of the grass, the slenderness of the rose-vine and the velvet of the flower, the lightness of the leaf and the glance of the faun, the gaiety of the sun's rays and tears of the mist, the inconstancy of the winds and the timidity of the hare, the vanity of the peacock and the softness of the down on the throat of the swallow, the hardness of the diamond, the sweet flavor of honey and the cruelty of the tiger, the warmth of the fire, the chill of the snow, the chatter of the jay, and the cooing of the turtle dove.

He combined all these and formed a woman. Then he made a present of her to man. Eight days later the man came to Twashti and said, "My Lord, the creature you gave me poisons my existence. She chatters without rest, she takes all my time, she laments for nothing at all, and is always ill; take her back," and Twashti took the woman back. But eight days later the man

MEN SAY THANKS MORE OFTEN THAN DO CO-EDS

Columbus, Ohio. — The average male student is so much more polite than the average co-ed that it's far from funny.

According to the standards of good manners laid down by the Emily Posts of the land, young women should smile and whisper "thank you" in response to small favors. Maybe some young women do, but co-eds do not, at least they don't at Ohio State.

An ambitious and curious young man at that school stood beside a much used door last week and

came again to the god and said, "My Lord, my life is very solitary since I returned this Creature. I remember she danced before me singing. I recall how she glanced at me from the corner of her eye, how she played with me, clung to me. Give her back to me," and Twashti returned the woman to him. Three days only passed and Twashti saw the man coming to him again. "My Lord," said he, "I do not understand exactly how it is, but I am sure the woman causes me more annoyance than pleasure. I beg you to relieve me of her."

But Twashti cried: "Go your way and do the best you can." And the man cried: "I cannot live with her!" "Neither can you live without her!" replied Twashti.

And the man went away sorrowfully, murmuring: "Woe is me, I can neither live with nor without her."

opened it for everyone who approached.

Only two out of every 15 co-eds said "thank you" for the favor, while only one out of every 15 men neglected to do so. Most of the co-eds, the experimenter reported, seemed to feel that the door was opening of its own accord, probably in deference to their beauty.

Continued from page one

It is well insulated with water-proofed asbestos cover, and in a tile conduit five feet below the street level. There is only a loss of 5 per cent of the heat through the pipeline to the most distant customer, nearly two miles from the boilers.

The steam is generated at a pressure of one hundred and fifty pounds per square inch and delivered to the mains at this pressure. The customer is supplied through a reducing valve at any pressure he desires, and he may use two pressures, one for heating and another for running equipment.

Two types of meters are used to measure the steam used by the customer, the flow meter in the steam line and the condensate meter which measures the water left after the steam has been condensed by the user. There are no return

lines to the steam plant, because the cost of building them and the upkeep would overcome the saving in water and heat. Feedwater is taken from the river and purified, and the customer may use the hot water for washing or cooking.

Steam is sold to hotels, office buildings, warehouses, restaurants, pressing shops, and department stores and the average price is less than a dollar for a thousand pounds.

This method of heating was used in a new building in St. Louis and saved twenty-six feet of floor space on each floor which would have been occupied by a chimney had a

heating system been installed. The added rent for this floor space more than paid for the steam used.

Steam heating in the business districts of large cities has lowered the fire hazard, lowered the cost to build, and it is estimated that 13,000 ten ton coal trucks per year have been eliminated from the downtown streets of St. Louis.

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