



10 Oct 1934

The Missouri Miner, October 10, 1934

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THE MISSOURI MINER

MISSOURI SCHOOL OF MINES AND METALLURGY

VOLUME XXI

ROLLA, MO., WEDNESDAY, OCTOBER 10, 1934

NUMBER 4

19 RETURN FROM TRIP

10 Senior Mechanicals and 9 Metallurgists Inspect Many Chicago Industrial Plants

On Friday, Sept. 21, ten senior Mechanical and nine senior Metallurgists, accompanied by three professors, left Rolla for the annual inspection trip. Headquarters were established at the Hotel Sherman and the whole party went forth to inspect the Century of Progress on Saturday. The party assembled at 2 o'clock for a specially conducted tour through the Ford exhibition.

Sunday was spent in further exploring the Fair with numerous little side trips through the various villages, with Sally Rand as the principal attraction.

The inspection trip officially began Monday with a trip through the International Lead Refinery at East Chicago, Ind. The refinery of the lead from the entrance of the raw ore to the finished product was followed through. The manufacture of white lead was also observed.

Tuesday was spent in inspecting Illinois Steel. Because the plant was operating at only 20 per cent capacity, much was left unseen.

However, the operation of induction furnaces, and the like were carefully observed. The features of the plant, in the opinion of the Mechanics, was the power house, where twenty-eight natural gas engines of the Allis-Chalmers type were in action. These enormous engines, coupled with generators, were capable of delivering 6000 kw each.

Wednesday was spent in another interesting steel plant—Wisconsin Steel, a part of International Harvester. Here the tapping of a blast furnace was eagerly watched as was the blow-off of a Bessemer Converter. The bar mills provided an interesting spectacle to watch.

Thursday morning was spent in inspecting the Dallas Brass Co. The manufacture of small brass articles and the extrusion of brass were articles of interest to Mechanics and Metallurgists alike. The afternoon was spent in following through the assembly of a common telephone at the Western Electric. This proved to be quite a hike about the Western Electric Plant which is a small city, employing about 20,000 persons.

Friday, the Columbia Tool Steel

See SENIOR TRIP Page Two

9 MINERS ELECTED TO TAU BETA PI

The local chapter of Tau Beta Pi met last Wednesday evening to elect the pledges for the full term. Those elected were:

H. D. Dallmeyer
Fred Holt
H. Ishiguro
R. J. Knoll

SIGMA NU FRATERNITY GIVES PLEDGE DANCE

The Sigma Nu Fraternity opened the social season of the year last Saturday night with a dance in the honor of their pledges.

Over 175 guests attended the dance. Among these were many out-of-town people, and representatives from all of the leading fraternities on the campus. The chaplains were Dr. and Mrs. J. W. Barley, Lieut. and Mrs. E. C. Itschner, Mr. and Mrs. Rex Z. Williams, Mr. and Mrs. L. M. Robison, and Mr. and Mrs. V. X. Smith.

Walter Woods and his orchestra, new to this campus, made their debut and immediately met with the approval of all in attendance.

TO PRESENT FIRST PLAY

"The Silent Shape" to Be Given During October by Alpha Psi Omega

Alpha Psi Omega (Players to you) have announced their first production of the season, "The Silent Shape," which will be given late in October.

What with diabolic doctors, unpleasant goon-like monstrosities, in oncent maids and such, the play promises to be one that will keep the audience perched on the edge of their seats for two hours while they are taken to old Medford Mansion, musty and menacing, on lower Long Island.

Director Dallmeyer has gathered together a cast well able to impart to the play the mystery and horror which surrounds the ghastly eerie, creeping, Silent Shape. It is said that even the cast itself has taken to whistling during rehearsals to keep their courage, for if the Ssape were to escape . . .

Some of the players whom Alpha Psi Omega will present are: T. W. Royer, the doctor-scientist; Emily McCaw, a mysterious lady, and in distress too; Frank Zvanut, the country cousin; Wilbur Aitama, a dumb detective known to imbibe upon occasion (any occasion); Virginia Hell, the sweet young thing; Sunny-boy Hansen a reporter; and the never to be forgotten Silent Shape.

Alpha Psi Omega has announced that their Silent Shape will be available for house-hauntings after the performance, but plan now to see him first when the Players make their bow for the year. The exact date will be announced soon.

W. O. Neel
E. W. Nixon
C. W. Snyder
G. A. Penzel
A. E. Woerheide

The men were publicly pledged at a mass meeting held Friday. A large number attended.

The Tau Beta Pi Scholarship cup was awarded to the Independent group for their record of last spring. William Busch was awarded the slide rule for being ranking freshman of last year.

SCHEDULE OF MINER 1934 FOOTBALL GAMES

Pittsburg Kansas Teachers 18; Miners, 6 at Pittsburg at Rolla.
Arkansas Tech, 6; Miners, 0
Oct. 5—Kirksville Teachers, 19; Miners 0 at Kirksville.
Oct. 13 McKendree College at Rolla.
Oct. 20—Open date.
Oct. 27—Arkansas University at Fayetteville.
Nov. 2—St. Louis University at St. Louis.
Nov. 10—Open date.
Nov. 16—Springfield Teachers at Springfield.
Nov. 23—Maryville Teachers at Rolla.

THIRD LECTURE OF SERIES GIVEN TUESDAY

The third lecture in the series on Highway Construction was given last Wednesday afternoon with Mr. Carl Brown as the speaker. Mr. Brown is assistant chief engineer of the Missouri highway department.

The subject of the lecture dealt with the origin and development of the supplemental highway system.

Mr. Willis, head of the research department, and Mr. Shappler, geologist, both of the highway department, were guests of Mr. Brown.

ROAD WORK INSPECTED

C.E. Dept. Guests of S.G. Hays Saturday; Oil Mat Construction Observed on Highway 63

About twenty student and faculty members of the C. E. Department were guests of Mr. S. G. Hays Saturday in an inspection trip of the work being done on Highway 63. This trip was made in connection with the course of lectures being offered in highway construction methods.

The type of work being done on this job is known as the "oil-mat" surfacing. This is a relatively new type of surface treatment which is being tried by the state in the construction of the secondary and supplemental roads. An idea of the method and the results may be best shown by a brief resume of the trip.

The oil-mat surface is the first of a series of steps in the process of obtaining a low-cost high-type surface on roads which do not have sufficient traffic to warrant an initial expenditure of large sums. The base upon which the oil-mat is placed is generally the gravelled surface of roads which have been subjected to traffic for sufficient time to insure a solid structure. The stability of the base determines the feasibility of placing the oil-mat type of surface. Solid, traffic-proved bases are necessary to insure reasonable life for the oil-mat.

Route 63, between Rolla and Edgar Springs has been a gravelled-surface highway for some time, and the traffic has been heavy enough to compact the roadway into a solid mass capable of carrying fairly heavy traffic. The portion to be surfaced, 15 miles, has a satisfactory base, and the steps necessary for the new surface have been begun.

The first stop on the tour was made at the beginning of the stretch which is being surfaced. Here, the gravel aggregate was seen as it is first placed on the job. The quantity of aggregate is determined in such a manner that it can be placed on the job in a

(See HIGHWAY 63, Page 5)

TO OBSERVE HOMECOMING

McKendree Football Clash and Ball to Feature Annual Celebration at School of Mines

Plans for the annual homecoming of the Missouri School of Mines and Metallurgy will swing into action with the anticipated battle for gridiron supremacy between McKendree and the Miners. The game promises to be of most importance, and the uncertainty of the outcome will point directly to the strength of the Miner aggregation. The fact that McKendree was beaten by two touchdowns at the hands of Washington Bears and that Illinois U, reputed to be the strongest team in recent years under Zupke, had to offer all their skill and power to overcome Washington the past Saturday.

Last year the Miners defeated McKendree by the score of 7-6. This year McKendree has a much heavier squad and plenty of action is to be seen in the all-state half-back, "Spike" Wilson, who is the captain of the team. The super-charging 200-pound fullback, Wilbur Zirges, a freshman, and Blackburn, in the line, marks the apparent strength of the McKendree team. On the other hand the Miners will have a team much improved through profiting by mistakes made in previous games. A game second to none on the Miners' schedule is expected.

Definite plans have not been effected as to the speaker and toastmaster of the evening at the Alumni Banquet, however, it will be held as usual at the Pierce Pennant Tavern and a typical Miner reunion will be present with that old Miner spirit and association.

After the banquet the classes may bring the evening to a climax by attending the annual Homecoming dance which will be given by the St. Pat's board at the Jackling Gymnasium. The orchestra of Walter Wood will furnish the joy and rhythm to perfect the blend of the football classic, annual banquet and music into the Homecoming at M.S.M.

Dancing from 10 to 2. Everybody out.

(See HOMECOMING Page 6)

A. I. E. E. GROUP TO SEE MOTION PICTURES

The A.I.E.E. will hold its first student meeting this evening, Oct. 10 in Norwood Hall. There will be a short business meeting followed by three motion pictures and a talk by Prof. Lovett.

"The Greater Campus" is the title of one of the pictures which will show the life around the General Electric Company's training school. This school was mentioned by Mr. Woolston at the last meeting, which should make all those who heard him want to be out again this evening.

Attend HOMECOMING Ball

THE MISSOURI MINER



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FACULTY ADVISER DR. J. W. BARLEY

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HOMECOMING

The life of an editor is just one important thing after another; that is, he has to take note of important events. These things roll around with such rapidity that there is hardly time for a good breather in between.

Here it is almost Homecoming Day again, and we thought we were all fixed up for a steady run of ordinary stuff. We don't know what you folks think about the celebration, but to us it has a special significance. We won't go into the details right now because there are other things more important.

Now you, Freshmen are about to witness the celebration of your first Homecoming Day. It may seem somewhat silly to you, all this fuss and feathers—, but you wait. You have only just begun your career here in connection with the School of Mines. We doubt if you can readily name off the buildings on the campus. We are sure that most of the laboratories and classrooms are somewhat of a mystery to you. Possibly, the names of the faculty are beginning to be familiar.

We know you haven't been here long enough to have engaged in many "bull-sessions" wherein the inmost secrets of the school and the many stories connected with this and that have been revealed.

To put it plainly, you are still "babes in the woods" as far as your knowledge of M.S.M. is concerned. We don't mean to criticize with this statement just because you are Freshmen. Not at all, we are just approaching a point and you are a means to an end.

Now then, the Sophomores. These men feel that they have really accomplished something. They are really very important (in their way of thinking). Well, we will concede them the point that they know the school fairly well, but, at that, we believe that a would-be mechanical could be sent for a "left-handed" monkey wrench, or that an embryo miner could be set to looking for a "timber stretcher." Even with all the preliminary training they are given, we have known Sophomore Civils who looked high and low for a set of azimuth angles or looked up the pedigree requirements for a "contour-bound."

The Sophomores are a little better, though, because they have at least one year of M.S.M. history pretty well in hand. They are possibly familiar with the players on the teams, the student advisor, the school doctor and nurse, the business manager and the head of their department. They most likely haven't quite learned how to take the profs that have worked on them.

The Juniors seem to advance quite rapidly. It is in this stage that the boys seem to break out their hidden talent for politics and what not. In order to put their best foot forward they, of course, have tested the field in which they wish to work.

This gives them a little of the edge on the inside track of the race to acclaim. We have no criticism of the Juniors except possibly their tendency to "jump the gun."

The Seniors, come next. We will try our best not to say too much, but in the Seniors we have a combination of all the foregoing classes, plus a little mark of disappointment. It is with the Seniors, though, that we approach our point. It is the Seniors who experience the thrill of having a hand in the story-making events of the school. The Seniors, in most cases, are the leaders during their year. They come to feel that what they do is of all-importance; that their contribution eclipses that of the foregoing classes. And it is with this thought in mind that they take leave of the Alma Mater.

As they pass, and these graduates are mellowed by time, they are the PRY of the business world. Back in their memories, possibly lies the smouldering embers of pride

which took flame back in their Senior year at school. This memory is brought out and gone over, and the result is the determination to go back to the old school and see what this bunch of "young squirts" are doing.

Prowling around on the campus, these old grads note the changes in familiar places, wonder at the absence of others, and take pride in the appearance of the new. This, in fact, is their place. They have a part in the campus; didn't they help to trot out those niches in the steps there?

And on this, Homecoming Day, these old grads have a chance to get together and talk over the things that happened in their day. To them, there hasn't been as good a class since they took leave. The foolishments of their day were reasonable compared to the damfool tinkering of these "kids."

Well, it may sound queer to you, but it has never failed and some day, if you are a true Miner, you will come back and do the same thing.

Now here is the point, we will have quite a few visitors on that day. There will be a football game and a dance. Let's all take part in this program and show these fellows that the spirit is still here. Freshmen come out full strength and help with the cheering. Sophomores, be original. If you want to play with the Freshmen, think up a new game for once. Juniors, play your own natural part, but be in there. Seniors, act interested at least.

SENIOR TRIP

Company and the American Manganese Steel company were the objects of scrutiny. Many interesting facts were gleaned from the observations of the various processes. The party returned to Rolla Friday night.

NOTES ON SENIOR TRIP

We still wonder who the fellow is that threw the bottle from the second story window of Hotel Sherman down on the unsuspecting head of a passer-by, knocking him unconscious. The police still wonder, too. Since it came from the Randolph Street side, we could hazard a guess.

Art Kassel gave four of the boys a rousing welcome when they visited him at the Walnut Room of the Bismark Hotel. Norman Ruvel played the part of a pal, and introduced two of the featured stars of the floor show. Nice gals, too.

And then, there's the story about the Mechanical who did his loving all over the world's Fair Grounds, and she was from Texas, at that.

Just to prove that the World's small, Hoyt met a girl from Hannibal. And then, he and Beard stayed over to go to the Empire Room—you guessed wrong—it was another girl.

The Star and Garter was a popular spot for the Miners, but the nickel shows on State Street were a close second.

The only big orchestra the boys missed was Herbie Kay at the Edgewater Beach Hotel and that wasn't their fault—they had to leave too quick.

Waltenspiel and Pfeiffer did their part. They met several girls from the Morrison, and went on from there by contributing to Chicago's prosperity by visiting the College Inn.

G-E Campus News



HURRY! HURRY!

A flood had crippled three important electric motors in the refinery of a large oil company on the island of Aruba, 50 miles north of the coast of Venezuela. The plant had to be shut down until new coils could be installed. Losses caused by the shutdown ran into thousands of dollars a day. An order for the coils and word of the refinery's predicament reached General Electric in Schenectady, N. Y., on a Sunday morning. Work began immediately, and by dint of night shifts and a great concentration of efforts, the two-and-one-half-week job was completed in three days. The 808-pound shipment of coils, conveniently packed in small cartons, was flown in a chartered plane from Schenectady to the Newark airport, where it was transferred to an Eastern Air Lines plane bound for Miami. On Wednesday morning the cartons were transferred to a Pan-American Airways ship at Miami for the hop across the Caribbean to Kingston, Jamaica. From there, they were flown directly to Aruba in a specially chartered plane. They arrived Saturday morning, just six days after the order had been received by General Electric. J. A. H. Torry, Union College, '11, and G. H. Wagner, Acadia College, Nova Scotia, '09, of the International General Electric Company, Inc., made arrangements for filling the order.



STONE-THROWING ROMEOs

The engineers of the General Electric Company have been asked to solve some unusual problems, but never before have they had to work against Cupid. This is how it came about: Some of the swains who did their courting in parked cars along certain lighted roads in

New England found that the lamps crimped their style. With simple but destructive logic they decided to extinguish the lamps with stones. Their aim was so good that repairmen of the utility which serviced the lights could hardly keep up with their depredations. Finally, G-E illuminating engineers were called in to design a fixture to foil the stone-throwing Romeos. These engineers produced a cast-aluminum guard, which looks very much like a baseball catcher's mask. It protects the lamp and at the same time helps to concentrate light on the roadway.



FAT SPARKS

The artificial lightning boys have beaten natural lightning in one regard, at any rate. Engineers in the General Electric high-voltage laboratory have produced discharges of a quarter of a million amperes, which is greater than the current of any direct lightning stroke yet recorded. Just as natural lightning, with amperage almost as great, destroys that which it strikes, so does the laboratory discharge; and just as natural lightning is accompanied by thunder, the laboratory bolts have their ear-splitting crashes. A copper wire a tenth of an inch in diameter is completely vaporized. A similar piece of iron wire is "exploded," the remaining ends continuing white hot for several seconds. A section of reinforced concrete is broken into bits. The handle of a silver-plated ice cream spoon vanishes with a shower of sparks. These engineers were the first to produce 10,000,000-volt artificial lightning discharges, and they are continuing their studies through these high-current discharges, in order to find better means of protecting electric distribution systems. K. B. McEachron, Ohio Northern, '13, Purdue, '20, M.S., is director of the laboratory, and associated with him in these tests are: W. L. Lloyd, Rensselaer Polytechnic Institute, '18; J. L. Thomason, U. of Idaho, '29; G. D. Harding, U. of Arizona, '29; and J. R. Sutherland, Yale, '29.

96-71FBI

GENERAL ELECTRIC

STUDENTS RETURN TO M. S. M AFTER SUMMER IN EUROPE

Third of a series of articles on conditions in Europe as portrayed

By R. E. Schneider.

Synopsis:

The Trip to Date: July 31, 1934. Two Miners and Trainload of Mules. St. Louis to New York. June 23, 1934. New York to LeHarve, France — Bordeaux, France, via American-France Freighter S. S. Independence Hall. Dispersing of Cargo at Bordeaux—Friday, July 13, 1934. Visits with various Student Organizations in Bordeaux. Bordeaux to Lyon to Geneva, Switzerland. Three days in Geneva . . . inspection and visits to International Conference Buildings, etc., University at Geneva. Geneva to Lausanne, to Basle University of Basle. Basle, Switzerland, to Karlsruhe, Germany. Four days at Technische Hochschule at Karlsruhe.

snike. Baden, Baden Germany. July 22, 1934. Heidelberg University and complete visit to city, castle and University grounds and buildings. Heidelberg to Frankfurt, Wiesbaden, Mainz. Mainz to Cologne via Rhine river boat Cologne to Wald Hotel Hans Frankenfort by Bensberg. Thorough inspection of Cologne Bensberg, New Frankenfort. Cologne to Duisberg, Germany, July 30, 1931. Duisberg to another European country—Holland—July 31, 1934.

The continuation of the journey: From Duisberg the next stop was scheduled for The Hague, Holland. Enroute to The Hague, one is concerned with the extensive means of reclamation of land, as patterned by the nativity of Holland. From the National Geographic Magazine

of November, 1933, many operations of the Dutch Engineers are taken into consideration — points being primarily stressed on the Zuider Zee (South Sea) of Holland.

Sincere satisfaction at seeing the spotless, uniquely arranged and utilized lands which are punctuated with the traditional windmills, is made more a truth by ready comparison of the above with the "Nature in the raw"—and it's mild, too. We arrive at the Station, 6 p.m. on July 31.

This city is very like our city of Rolla, in respect to the combined nature of grass and trees. Rather unusual in European cities. Many parks very near to business districts—perhaps five minutes' walk.

A very American and English city—I should say, more so than Geneva, Switzerland.

Inasmuch as we were fortunate in having directory letters to friends, we had to be content on not being able to locate the parties to whom I had advised of our visit. This was wholly due to an incorrect street address. One consolation was the remaining address to which I lost no time in contacting.

The offices of the Royal Dutch Shell—to be more complementary to the Dutch environment—Matchappi Bataafsche Petrolea, were referred. This beautiful building where 2500 employees are kept

busy day after day, proved to be very near to the residence of Mr. Ett Schippers, whom I had planned to visit the following day. Passing the residence of Mr. and Mrs. Schippers—a most cordial and kindly people greeted us and extended to us all possible courtesies. After being treated to a most hearty meal we bided our time in an American home surrounded by a wonderful Dutch atmosphere.

The Schippers family who have been gone from the Shell Refinery Terrace at Wood River, Ill., since this spring (past) are very satisfied with their change, however, that continental life is equally missed.

August 1st was spent with the Schippers family and Dr. and Mrs. G. J. Barnwell who live in Wassenar, a suburb of The Hague. Dr. Barnwell was formerly a Geology professor at M. S. M. and is employed as consulting Geologist for Standard Oil of Europe.

The two families combined to make our visit most enjoyable and our visits to places of interest may be listed as: The various Parks, Canals, Business Districts (very modern and Americanized), the Royal Palace, House in the Wood, which is summer Home of the Royalty, The Peace Palace, donated by the Carnegie Trust, Museums, Kurhans, Panorama Displays and all places of Historical Interest and

beauty. Kept quite occupied looking for Relics of the Inquisition in Holland. A trip to nearby "Scheveningen" where the native characters are the typical "Wooden Shoe" class so frequently portrayed by artists, a lasting picture, indelibly placed, of singular interest and individual beauty, is received by the writer. Nearer to the city are many beautiful cafes and exclusive hotels.

Though our stay at The Hague was rather short lived, I can say without any hesitation that never have I, nor ever shall I find any hours so crowded with pleasant thoughts and memories than those of which I had spent in "The Hague." Truly a wonderful country and a wonderful people—these friends.

Leaving "The Hague" August 2 and on to Paris by railroad we passed through Rotterdam, Brussels, Belgium, and many of the quaint Dutch communities of "The Netherlands. Near Brussels (15 miles) the Battlefield of Waterloo is crossed by R. R. Flanders field—where Poppies grow—very often visited by the common's of France, Germany and Belgium. Great respect shown toward one another.

Frontier of France reached and we arrive at Paris, Thursday,

(See TRIP, Page 5)

How Refreshing!



Luckies



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for the clean center leaves are the mildest
leaves—they cost more—they taste better.**

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SPORTS

KIRKSVILLE DRUBS MINERS 19-0; TEAMWORK LACKING

5000 WITNESS CONTEST ON FAST FIELD

Doyle's Excellent Punting Pushes Silver and Gold Back Time After Time; Captain Embree Produces Sensational Runs, and Again Proves Nemesis to M. S. M.

Once again Coach Grant's hapless Miners went down to defeat. Kirksville, displaying plenty of power, proved too much for the miners and the game ended in a 19 to 0 victory for the Teachers. The game was played at Kirksville on an excellent turf before a crowd estimated at 5,000.

The outstanding players were Embree and Doyle of Kirksville. Embree with his sensational running again proved the Miner nemesis. Doyle's excellent punting pushed the Miners back time after time.

The lack of co-ordination and teamwork again proved the Miner downfall. Petty bickering and fussing seems to be driving the team into one of the worst seasons the Miners have ever had. It is, indeed, unfortunate that the excellent material should be wasted in such a useless way.

Play by play:

First Quarter: Miners win toss-up and choose to kick. Rhode received on 15 and returned to 35. Embree made a yard off tackle.

Moody made 5 yards through center. Miners were off side. Penalty rejected. Embree made first down off right tackle. Rhode lost a yard. Kirksville penalized 15 yards—backfield in motion. Rhode was unable to gain. Kirksville fumbled and recovered on 25 yard line. Doyle kicked to Miner 40. Miners penalized 15 yards for roughing kicker. First and ten for Kirksville on 40 yard line. Embree made 8 yards off tackle. Embree advanced to Miner 40. Kirksville was stopped by a 15 yard penalty for holding. Bulldogs were unable to gain in three plays. Doyle kicked to Miner 11. Miners kick out of danger to the 33. Embree unable to gain. After an incomplete pass, Embree flipped one to Towers for 21 yards. Embree and Rhode were stopped. Embree gained 4 yards. Short pass was completed on fourth down. Miners' ball. McGregor lost 7 yards. Miners kicked to 35. Rhode gained 20 yards around end. Embree picked up 5 yards. Embree gained 3 yards. After making 3 unsuccessful at-

tempts for touchdown, Moody went over for touchdown on the fourth down. Embree missed try for extra point. Miners 0, Kirksville 6. Nickel returned kickoff to 30 yard line. Nickel slashed off tackle for 7 yards. Schwab gained a yard. Nickel made first and ten. Quarter ended. Miners 0, Kirksville 6.

Second Quarter: Schwab gained 7 yards on reverse. Miners penalized 15 yards on next play for holding. Nickel kicked to Teachers 30. Kirksville penalized 15 yards for clipping. Kirksville kicked to Miner 40. Nickel made 8 yards on reverse. McGregor made first and ten. McGregor lost 6 yards. Schwab made 3 yards. Cavanns intercepted a pass on fourth down. After several tries at the line Kirksville kicked to Miner 40. McGregor made 2 yards off tackle. After several tries at line, Miners punt to Kirksville 30. Kirksville kicked on fourth down to Miner 30. Nickel quick-kicked on third down to Teachers 37. Faurot kicked on fourth down to 20 where Kirksville was penalized 15 yards for interfering with a fair catch. Miners lost ten yards on fumble. Embree intercepted pass and returned to Miner 46. Embree ran 46 yards for touchdown. Faurot missed try for point. Miners 0, Kirksville 12. Pfeifer returned kickoff to 30. Neel made first and ten in three plays. Howerton made first and ten. Moody made 9 yards as half ended. Miners 0, Kirksville 12.

Third Quarter: McGregor return-

ed kickoff to 25. Nickel kicked on third down to Kirksville 37. Kirksville was penalized 15 yards for clipping. Doyle kicked to Miner 36. Wommack made 5 yards in two plays. Miners penalized 5 yards, backfield in motion. Nickel punted to Kirksville 30. On fourth down Doyle kicked to Miner one yard line. Miners kicked on first down. After an incomplete pass and several stabs at the line, Kirksville kicked over Miner goal. Miners passed and House intercepted on 35. After two incomplete passes, Embree kicked to Miner 10. Nickel kicked to own 45. Rhode galloped 16 yards around end. Embree was stopped for 2 yard loss by Plummer. Embree made 8 yards thru center. Rhode made the 19 yard line for first and ten. Embree slashed off tackle for 5 yards. Rhode lost 3 yards. Embree gained 15 yards around end. Rhode made 3 yards thru line. Rhode hit the line for touchdown. Embree's try for point was good. Miners 0, Kirksville 18. Faurot kicked to 15. Howerton returned to 32. After an incomplete pass, Neel made 5 yards on spinner. Neel's pass to Pfeifer was good for 22 yards. Kirksville intercepted pass on own 45. Kirksville held for 2 downs as quarter ended.

Fourth Quarter: Alexander made 4 yards through line. Faurot kicked to Miner 15, returned to Miner 30. Miners gained 19 yards on 2 passes. Howerton gained 4 yards. Neel's pass to Fulsom brought the ball up to the 34. Miners unable

to gain. Kirksville's ball on own 32. Faurot and Montz made a first down. After an incomplete pass, Alexander made 12 yards and fumbled. Kirksville recovered on Miner 46. After an incomplete pass Alexander made 8 yards off

See FOOTBALL Page 6

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AND
GROCERIES
PHONE 71

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LOUNGE**
A GOOD PLACE TO
BREAKFAST
WHEN IN A RUSH
AT THE CAMPUS
AL SMITH, Prop.

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THRU THE TRANSIT

by Pin, who's an old hitch-hiker, no less.



What a week-end. We are of the opinion that Highway 50 is absolutely unnecessary to the highway system of Missouri. We spent the better part of a day in Union trying to get to the football game at Kirksville. Finally by grabbing a bus, train, taxicab, truck, etc., we were able to get within sixty miles of our destination. We are ashamed to hold our head up in the presence of honest hitch-hikers.

Brother Squint and Tommy Graham were back over the week-end. Looks like the gold-mining business is a paying proposition because the boys have traded the good ship Blurb for a brand new V-8. It also looked like they had tried to submerge in it because the fenders showed evidence of great wear. They proceeded to make merry with the rest of the town at the Sigma Nu dance. Everybody was there it seemed except ye Honorable Pin, who was still wearing off the effects of a Friday night spent in Moberly, Macon, and North Missouri. We will leave the details of that night out as they are too complicated to recite here.

The flash on the feminine front must have been trying to make the boys feel bad, because she is still in town after threatening to leave all last week. We have a new name to add to the list of casualties on

her list: that of Peebles.

Does anyone know what has become of Pete Lange and Bay? We haven't seen them around for quite some time. There are a couple of fellows walking around answering to their names, but we really can't see who they are until they come out from behind the brush.

Blue Key wishes to make an announcement at this time. Due to the fact that the broadcasting station at Jeff City is being used during the time the Homecoming Game was to be broadcast and no other station can be obtained, Blue Key is going to bring the Arkansas game back to Parker Hall either by wire or telephone. This will be more interesting to the students. So support this movement next Saturday by buying as many hot-dogs and soda or coffee as friend indigestion will permit.

We hear that our second team is going to play Penn State October 20 at Jeff City. Did we say Penn State? We meant State Pen. That will be one game where a lot of drunken grads won't be telling the home team coach how to win the game.

Things have rather quieted this week, but next week after such a rowdy-dow time as Homecoming having occurred, we promise our gentle readers a much more interesting column, we hope.

HIGHWAY 63

window alongside the roadway to be surfaced. This aggregate is tested carefully for gradation and character in order to determine the type and quantity of binder to be used.

The next stop was made to inspect the "priming-coat." The surface of the road is cleaned by brooming and a thin coat of light oil is applied to prime the gravel surface and to insure the water-proofing of the base. This operation is carried on on only one side of the road at a time so that traffic can be kept off the prime-coat. After the primer has cured for a day on one side, the windrow is pushed over on it and the other side cleaned and primed. In the operations visited Saturday, however, the mixing of the surfacing material was carried on the un-primed surface at one side or the other.

This brings us to the next step in the work, that of mixing the aggregate with the binder. This operation is achieved, on this job, by the special Barber-Greene traveling mixer. This machine, which travels under its own power, picks up the aggregate from the windrow, thoroughly mixes it with the binder, and places it back on the road in another windrow of uniform dimensions. The binder used on this job is known as cut-back asphalt, a heavy bituminous material made workable by the addition of a solvent. The binder is mixed with the aggregate at a temperature of about 165 degrees Fahrenheit,

which necessitates that all trucks and storage tanks be insulated and that a means be provided for obtaining relatively high temperatures as the material is drawn from the tank cars in which it is shipped.

The fourth step in the actual procedure of preparing the oil-mat is the spreading of a "tack-coat" of heavy tar which serves to form a bond between the primed base and the oil-mat. While this tack-coat is still in a sticky condition, the mixed material is spread over the surface to the proper width and thickness. This step is achieved by the use of the common road-patrol type grader which is capable of fair speed and is easily handled.

The final step is the rolling of the surface with a light roller. This is done merely to insure uniform compaction of the surfacing material so that, as the traffic goes over the surface during the curing period, a smooth roadway is insured. The curing is not fully

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completed until about ten to twelve months have elapsed. This period is mainly dependent on the type of solvent used in the binder.

The trip Saturday gave the opportunity to see the work in all its stages from beginning to end. With this opportunity, the students hearing the future lectures on the subject will be better able to understand the problems entering into the process.

Other trips to work of a different nature are being planned. As the method of step-stage construction is more or less of a continuous process, it is possible that the various steps may be seen in construction at different points in the state.

TRIP

August 2. Station Gare du Nord and to the Hotel Parisen. All of Aug. 2nd and part of the 3rd is spent in censoring the city via bus with cafes, casinos, movies, operas, many are visited... then the American Express tour takes one to all places of interest—such as:

Louvre Museum, LeCollege de France, Notre Dame Cathedral, Place de l'Opera, Grand Boulevard, Madeline Church, Place de la

Concord, Tuilerie Gardens, Bridges of the Seine (7), Military school, Operas, Chamber of Deputies (House of Parliament), Avenue of Champs Elysees, Two Palaces of the Champs Elysees, Palace of the Invalides, Tombs of Napoleon I and Marshall Foch; Eiffel Tower, Trocadero Palace, Arc de Triomphe (Tomb of Unknown Soldier).

These many places of interest are really the trip to Paris and constitute a full day of hurried inspection and observation.

From Paris we proceed to LeHarve, where we meet our ship the S. S. Collamer. Off for New York Saturday, August the 4th, 6 p.m. Rough weather over the pond and again in New York City. One week in New York City.

Deductions: The trip from New York City to St. Louis was negotiated partly through the valid offers of tourists—salesmen, trucks, buses or what had I. Hikers can't be choosers. Right?

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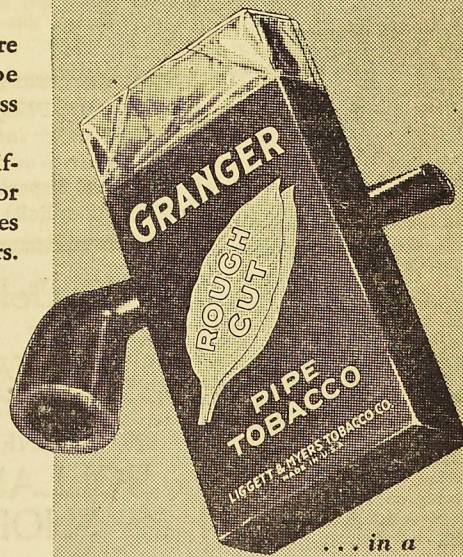
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FOOTBALL

tackle. Alexander gained 4 more yards. Montz made 7 yards thru line. Miners recover fumble on 9 yard line. Nickel gained 16 yards on fake kick. Nickel lost 10 yards on fumble. Nickel punted to Miner 45. Kirksville gained 3 yards on 3 plays. After a series of short gains Kirksville loses ball on Miner 20. Eller intercepts Neel's pass on 46 yard line. Kirksville fumbled as game ended. Miners 0, Kirksville 18.

MINERS		KIRKSVILLE
Dudley	LE	Doyle
Appleyard	LT	Noble
Massero	LG	Wilson
Spotti	C	Scholle
Attel	RG	Roth
Aylward	RT	Robinson
Hubbard	RE	Towers
Wommack	QB	Embree
McGregor	RH	Hanna
Schwab	LH	Rhode
Nickel	FB	Moody

Referee: O'Sullivan, Missouri U.;
Umpire: Cockran, Kansas City;
Head Linesman: Bunker, Missouri U.
(From play by play report through Western Union Telegraph.)

HOMECOMING

Homecoming has always been a great day for M.S.M. as far back as one can remember. It gives the old grads a chance to renew their acquaintance with their profs and old friends and to make new acquaintance with the men who are now in school. It also gives the grad an idea as to how different the Alma Mater looks today as compared with the time he attended.

The homecoming days which were observed during the past years are worth knowing about. The following paragraphs will reveal to us how homecoming was spent in past years.

1927

The Miners football team played Central College Friday, Oct. 14, 1927. The score was 21 to 7 in favor of Central College. During the half, Freshmen were ordered out on the field to do a snake dance.

The Alumni Association gave a banquet Friday evening, and Prof. Dean was given his first unworkable problem by the Miner graduates from Texas, and that was how to smoke a long black Mexican cigar. The problem is still unsolved.

To complete the program for the homecoming celebration, a dance was given by the Alumni Association at Jackling Gym Saturday evening. Senior and the alumni were the guests of honor.

1928

The homecoming of Oct. 3, 1928 was the most successful and most enjoyed. The M.S.M. alumni from 1890 to 1928 returned to visit their Alma Mater. The main event of the celebration was a banquet, given by the Alumni Association. Many important talks were given and Prof. Dean was the only graduate from the 1890 class. The Miners played Kirksville and defeated them 18 to 0. Freshmen, as usual, entertained during the half.

1929

Homecoming in 1929 was observed Oct. 19. A pep session was held Friday morning at Parker Hall. The alumni were present and serenaded by the M.S.M. band. Prof. Thornberry made a short talk; and also Coach Grant. A parade and pep meeting was held that night to put the old school spirit into one's blood. The result of the football game was Miners 73, McKendree 0. Friday night, Kappa Sigma fraternity gave a dance for the Alumni.

1930

On Oct. 11, 1930 over 100 alumni

attended a dinner given by the K. A. Fraternity. Seniors and members of the faculty were also present to enjoy this dance. A banquet was held Saturday night by the Alumni Association and the class of '23 was given a prize for having most attendance at the banquet. After the banquet the Pi K. A. fraternity entertained the alumni at their new house. The Miners defeated Drury 67-6.

1931

On Friday evening, Oct. 29, a bonfire pep meeting was held on the football field, and later everyone marched down town where cider was bought which resulted in the singing of many verses of the "Mining Engineer." A charity ball was given by the Rolla Junior Club. A parade was held Saturday afternoon, and then the Miners-Central College football game was witnessed by alumni and school. The Miners defeated Central 27-0. The St. Pat's board gave a dance Saturday night at Jackling Gym, and many Central College co-eds were present—were the Miners sorry?

1932

Miners defeated Maryville 14-0, Saturday afternoon, Nov. 5, and St. Pat's gave a dance that night at Jackling Gym. The music was furnished by Dewey Jackson, a well known red hot orchestra. The gym was decorated with corn stalks and leaves to give a fall appearance.

1933

Miners defeated Ottawa U. 13 to 0. An alumni banquet was held at the Pierce Pennant, and later a dance at Jackling Gym. The crowning of the homecoming queen was the main event, and this honor was given to Miss Susan Ellis. After the crowning of the queen was completed a floor show was given, and many humorous acts were witnessed.

McKENDREE DEFEATS STATE NORMAL, 13-7

McKendree won its opening Illinois Conference football game at Bloomington last Saturday, defeating State Normal 13 to 7. After Chuck Norris had taken the ball over from the three-yard stripe for the Bearcats first counter,

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And

SCHOOL JEWELRY

Capt. Ken Wilson, halfback, repeated after a 27 yard run. Les Murray and Capt. Wilson kicked the extra points.

Next Saturday afternoon the local mining aggregation will meet the McKendree team before a large Homecoming crowd at Jackling Field. Coach Waldorf, of the Illinois eleven, will start his strongest lineup in an effort to gain revenge for last year's 7 to 6 defeat at the hands of the Grantmen.

A 52-yard touchdown sprint by Jim McGregor and a placement kick by Elmer Kirchoff furnished

the Miners scoring against the McKendree team here last year. This year Coach Grant will rely upon speed and broken field running with Elmer Nickle and Jim McGregor alternating in the running position.

St. Louis University, the Miners' opponent on Nov 2, didn't fare so well over the week-end, and was held to a scoreless tie by Illinois Wesleyan, Friday night in St. Louis. The Wesleyan team was thought to be a pushover for the much heavier Billiken machine.

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... and while
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PONSELLE	MARTINI	STUECKGOLD
KOSTELANETZ ORCHESTRA AND CHORUS		
8 P. M. (C. S. T.)—COLUMBIA NETWORK		

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