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The Missouri Miner, November 14, 1934

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THE MISSOURI MINER

MISSOURI SCHOOL OF MINES AND METALLURGY.

VOLUME XXI

ROLLA, MO., WEDNESDAY, NOVEMBER 14, 1934

NUMBER 9

FRESHMEN VISIT DAM

Inspection Trip Under Dr. Mann Made to Bagnell and Jefferson City

This last Saturday, the A and B sections of Dr. Mann's freshman Engineering Drawing Class made an inspection trip to Osage Dam.

Leaving about 9:00 we arrived in Jefferson City around 11:30, and it wasn't long before the Highway Department and state capitol were well under control and entirely at our mercy. One of the fellows having never been in the capitol before, was for starting at the top and working down, so up he went with two others. Upon reaching the top balcony which is just above the giant chandelier, he rushed to the railing, and leaning over became so frightened from the height he would have fallen had it not been for his two friends.

From Jefferson City to Bagnell, we took it slow and easy, in fact so slow we almost had to push to get out of the city limits. The dam was finally reached and we all scribbled our names in the book of visitors and started the inspection. Everything from the outside to the huge turbines in the very heart of the structure, was as spick and span as any housewife could have kept it. We had two guides, one of which was Mr. Frame, a graduate of Rolla, now the Chief Engineer. Both were very obliging, answering any questions that were asked. Below is given some general information which might be of interest to those who didn't make the trip.

For more than two years a study of the maximum flows of the Osage river was made to determine the amount of power that could be economically generated and the size of spillways necessary to take care of the flood waters. The geological formation was carefully observed for causes of loss in water. It was found that the Osage basin was one of the little seepage. The area was surveyed to find the proper level for the reservoir, which was found to be 660 feet above sea level.

Construction of the dam began Aug. 6, 1929, and the first concrete was poured about eight months later. It was closed Feb. 19, 1931. The first main unit went into operation July 1, 1931.

The structure towers 148 feet above bed rock and would hide from view a row of 12-story buildings seven city blocks long. Through its 2543 feet of length one can see the fulfillment of men's visions, and the awe-inspiring triumph of the engineer.

The maximum number of men employed at one time was 4634, the average being 3000. The total number of employees was 20,500.

The lumber used in the forms, camp houses, etc., would build a board walk like that in Atlantic City, reaching half way from Atlantic City to Philadelphia.

Sixty thousand carloads of construction material was hauled to the dam-site, making two solid trains reaching from Chicago to St. Louis.

What is believed to be a world's record for concrete paving, was made when 5,082 cubic yards were

HOBO DANCE STILL UNDER CONSIDERATION

The St. Pat's Board held its semi-monthly meeting last week and discussed plans to raise funds for the annual St. Pat's Ball.

As you may know, one of the means is the Hobo Dance to be given November 23. Future plans were discussed, but nothing definite was decided except the one dance.

You may be assured that they will have plenty of entertainment for everyone before the year is over. Until then, let's all help them for a bigger and better St. Pat's.

LOCAL CCC CAMP WILL PRESENT PLAY

Plans are being formulated to produce an original play in the near future by the Civilian Conservation Corps in Blooming Rose under the direction of Ned Meller, erstwhile Professor of Drama at Washington University.

Volunteers to play feminine roles will be accepted. All girls interested in trying out for various parts should get in touch with Mr. Homer Coffman, instructor of dramatics, at 101 Norwood Hall at once. Mr. Coffman will be at Norwood Hall from 7 to 10 each week-day except Saturday.

The play, now in the process of writing is tentatively titled, "I Am a Fugitive From a Brain Gang." Rolla will be the center of the story's locale.

The play will be presented with a cast composed of members of CCC Company 1732 at Blooming Rose and any young ladies from Rolla willing to contribute their services. It is scheduled to appear at Parker Hall about the middle of January.

JUNIOR CLUB DANCE TO BE SATURDAY

"Thar's gold in them thar hills," predict prospectors from the Rolla Junior Club as they urge M.S.M. students and Rolla people to stake their claims for the "Gold Rush" at the Hotel Edwin Long Saturday night. The "rush" will begin at 10 o'clock and continue until 2 a. m. and every forty-niner will be admitted, with a gal or without a gal, for only 50 cents.

Eddie Campbell's popular orchestra of Atlanta fame will provide music for this great event and the chorus, a large group of beautiful dancers from Denver, is reported to be en route to Rolla. The most typical Miner and the most glamorous belle of the Gold Rush will be awarded with a prize, probably nuggets of gold.

M. S. M. WILL HAVE NEW OBSERVATORY

The Missouri School of Mines is constructing an observatory on the roof of Jackling gymnasium for the purpose of housing a ten and one-half inch telescope recently completed by Dr. S. R. B. Cooke, of the Bureau of Mines, after two years of hard work.

Dr. Cooke has had ten years of experience in research work on the moon and planets, having studied them in New Zealand. He will use his telescope for further research on these bodies.

SCHEDULE OF MINER 1934 FOOTBALL GAMES

Pittsburg Kansas Teachers 18; Miners, 6 at Pittsburg at Rolla.
Arkansas Tech, 6; Miners, 0 Oct. 5—Kirkville Teachers, 19; Miners 0 at Kirkville.
Oct. 13—McKendree 20; Miners 6, at Rolla.
Oct. 20—Open date.
Oct. 27—Arkansas University 20; Miners 0, at Fayetteville
Nov. 2—St. Louis University 25, Miners 0, at St. Louis
Nov. 10—Open date.
Nov. 16—Springfield Teachers at Springfield.
Nov. 23—Maryville Teachers at Rolla.

THETA TAU INITIATES 12

Honorary Engineering Fraternity Holds Banquet Following Ceremony Thursday

Theta Tau which is a professional engineering fraternity, held an initiation for all their pledges Thursday afternoon at the club-room. The following students are pledges: D. W. Dutton, R. L. Fisher, W. G. Graff, L. W. Holtman, J. R. Hubbard, R. W. Johnson, D. F. McCarron, G. O. Nations, G. T. Noldi, F. A. Schwab, W. H. Schwalbert, and U. C. Turk.

The initiation was followed immediately afterwards by a banquet in honor of the pledges at the Penman. The presiding toastmaster and master of ceremonies was none other than Helmuth Dallmeyer, and a good time was had by all.

These two occasions were then climaxed by a dance which was given Saturday night, also in honor of the pledges. Wallie Berger's Orchestra supplied the rhythm and syncopation for this hop-fest which was attended by a very good crowd.

PI K A's HONOR THEIR PLEDGES WITH DANCE

Last Friday night, November 9, Alpha Kappa of Pi Kappa A phal climaxed the series of dances given in honor of the pledges of the current season with a brilliant party at the chapter house.

With close to one hundred and twenty-five guests, members, and friends in attendance, the merry throng danced to the music of the increasingly popular orchestra of Eddie Campbell from St. James.

The dance was featured by the informal introduction of all of the pledges to the society of the School of Mines and Rolla at the end of the fourth dance.

The pledges honored were: C. C. Jameson, R. L. Elgin, O. Holtman, H. Moody, D. W. Nelson, E. E. Kelsey, J. Potter and C. F. Richmond, III.

In addition to the many friends and guests present the chapter had as chaperones for the dance the following: Prof. H. H. Armsby, Lt. and Mrs. E. C. Itchner, Coach and Mrs. Grant, Mr. and Mrs. H. S. McQueen.

DR. BUEHLER TO HEAD NATIONAL A. I. M. M. E.

A nominating committee composed of the Board of Directors of the American Institute of Mining and Metallurgical Engineers, announced at their meeting in New York on October 25 that Dr. H. A. Buehler of Rolla, was their unanimous choice for President of the Society.

Dr. Buehler is Chief Engineer of the United States Geological Survey, and is widely known and respected throughout the engineering world.

7 MINER FRESHMEN BIND LIBRARY BOOKS

Seven of our freshmen students are at work on an average of forty-three hours per week binding and mending books for the M.S.M. Library. This employment is supplied through the F.E.R.A., and is in charge of Miss Gill, who is employed by the school.

The binding is principally that of pamphlets, catalogues and other small manuscripts. Their ability doesn't stop here, however, as they have everything from papers to dictionaries. Even Prof. Dean brings his grade books to be bound.

The binding is done in three ways, according to the size of the book, and its value. Those of little value and small in size are bound the most economical way, using pasteboard for the backs. Novels and books of this type are bound using a composition board back. The better books are bound in Buckram cloth.

The old covers are torn off, the glue removed, and the pages sewn together. If they are books of one-half inch in thickness or less, they are usually stapled instead of sewn. The hinge and fly leaf is then put on and the covers glued together. From here they go to the library where the title, etc. is printed on with an electric stylus.

This work started in a small room in the Military Department, but due to the increase in work, and workers they were compelled to move to the Monkey House—for the information of the Freshmen this is a small brick building behind the Bureau of Mines.

BLUE KEY DISCUSSES TREAT TO CHILDREN

Due to the pledging of Epsilon Pi Omicron on Wednesday evening, Nov. 7, Blue Key held its regular meeting on Thursday evening.

At the meeting the suggestion was made and plans are now under way to allow the grammar school children in free to the last home game, the Maryville Teachers game.

Bleachers are to be erected behind the Maryville team where the children are to sit and raise all the racket they wish.

ALUMNI NEWS

Walter Ihrig, '28, and wife spent a few hours in Rolla visiting friends recently.

Carl Gettler and C. V. Courtney, former students and grads, spent a few hours with the boys at the Sigma Nu House.

EIGHT BEGIN AIR STUDY

One Miner Takes First Hop After Short Ground School Is Held

The "Air Minded Boys" held their second meeting Tuesday, Nov. 6, immediately after school in Norwood Hall. The speaker was Ray Branson. He cleared up all points of information which were not clearly understood by all. The meeting was attended by approximately eight, all of whom were very much interested in pursuing the course diligently.

It is Branson's intention to give the same course here that the Parks Airport gives, making use of the same type plane. As the course progresses lectures will be given by different instructors from Parks concerning more detailed points.

One of the fellows from school went up last Monday afternoon for his first lesson. The instructions including actual flying lasted for about forty minutes. Before taking off, the instructor, Branson, explained all the details, such as warming up the motor, which takes about ten minutes, and other handling of the controls. After this came the takeoff in a dual-control open cockpit plane with Branson at the stick. Climbing to about eighteen hundred feet, he leveled off the ship and attention was called to the position of the wings and nose in relation to the horizon. Then came the climax of the lesson. Branson removed his hands and signalled to take the controls over. After about twenty minutes of flying during which was studied the principles of shallow banks and level flying. The instructor once more took over the ship and brought it gently down.

Branson, who with Otho McCracken, was in an automobile accident last week at the junction of Highways 66 and 63 is from last reports improving rapidly, having suffered a broken collar bone, fractured rib, and a good shaking up. McCracken was taken home but is supposed to be back now.

We are all looking forward with much hope, to their both having a speedy recovery.

SIGMA XI HOLDS FIRST MEET OF YEAR

The first meeting of the Society of the Sigma Xi was held Tuesday evening, November 6, in the Chemistry Building under the auspices of the Chemistry Department. After the business had been transacted, the following papers were presented: "Steric Hindrance in the Ketonic Splitting of Alkyl Substituted Ethyl Acetoacetate" presented by Dr. Dunlap; "The Photobromination of Azobenzene," presented by Dr. Monroe; "Electro Deposition of PbO₂," presented by Thomas Day; "Halloysite," presented by F. J. Zvanut.

There are 24 members and 2 associate members on the campus, and there are two new members of Sigma Xi. They are Dr. Frank Conselman and Dr. Norman Hinchey, both employed by the State Bureau of Geology and Mines.

See Trip page 6

BEAT THE BEARS

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THE MISSOURI MINER



Official Publication by the Students of the
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POLITICS AND ENGINEERS

The results of last Tuesday's elections have real significance to the engineer, especially the student engineer. The progressive program of the present administration has resulted in a tremendous increase in construction. This last election almost insures that we shall have possibly six more years of this unusual activity.

With this possibility before them the present engineering students have a bright future. The opportunity in the midst of an active building program is one of which advantage must be taken. The making or breaking of a promising student engineer may hinge on his luck immediately following graduation.

With the present trend, too, we have the ever increasing recognition of technical training in the operation of government. This trend was predicted many years ago, and it is becoming a fact for the standards of education were raised throughout the nation.

The cause of such a swing from the usual methods may be traced to the fact that the effects of training a population is now being felt. It was an inevitable result and will be even more noticeable as the number of illiterates is reduced. We have not yet reached a stage where we might say we are completely educated, but we are approaching the day every person capable will have a college degree. The minimum will be a high school training with recreational training a specialty.

Society, industry and government will necessarily change to fit the new conditions for all are connected in their cause and effect. One cannot change without a corresponding change in all others.

We are in the midst of a swift current of progress which is not easily thrown back or diverted. Once it is directed along one path or the other it surges on. It has been remarkable that, despite all predictions to the contrary, there has been a steady rise in our living standards, our character has generally improved and will continue to do so.

We are a nation of strong minded individuals who are willing to co-operate to gain improved conditions.

We, as engineers and citizens of this nation, have a responsibility to carry in that a great deal of the nation's progress depends upon our ability to keep ahead of the technical demands of the people.

Our solution to innumerable problems will undoubtedly result in corresponding surges forward in our progress. The solution of such problems as the supplying of cheap power to all, both rural and urban communities, is anxiously awaited by a "power-conscious" populace.

The trend toward social improvement such as is being undertaken in the Tennessee Valley will necessitate the employment of technically trained men in great number.

Many other activities, such as the change in transportation methods also are demanding engineering talent.

The fact is that we are thoroughly confident that we are riding the crest of the wave of returning normal conditions. Mind, though, that we do not say "prosperity," especially as prosperity was known six years ago. We hope that we shall never again go through a period like that insane orgy.

In conclusion, then, we say that things never looked bri-

ghter for the engineering student. He has but to step out and perform his duty as he is trained to do it, employing at the same time every bit of his particular ability, and giving his utmost toward the upbuilding of the community and nation of which he is an important part.

COLLEGE NEWS BITS

The Y.M.C.A. and the Y.W.C.A. at Susquehanna University, Selinsgrove, Pa., have merged into one organization, to be known as the Student Christian Association.

Feeling, apparently, that most of the credit on the gridiron goes to the backfield men and the ends, The Tiger, undergraduate newspaper at Clemson College, South Carolina, is running the picture and name of the best blockers in the game preceding each issue. The men sorted out for this honor are selected by the coach.

During the week before Idaho-Oregon game, freshmen who answered the fraternity house phones were instructed to say: "End Oregon's Trail—Kappa House."

The two burglars who have been going from college campus to college campus in the central and northwest—the Rocky Mountain universities—breaking into fraternity and sorority houses, were finally captured in Oregon at the University, and confessed to their escapades. Large sums of money and valuables were recovered.

The department of aeronautical engineering at the University of Alabama has been given two army observation planes by the United States Air Corps.

The University of Catania in Sicily recently celebrated its 500th anniversary. The United States was represented by several university officials and by Ambassador Breckenridge Long, an alumnus of Princeton. The University was founded by King Alfonso I.

One of the oldest customs at Bryn Mawr College, Pennsylvania, is the annual event at which the freshmen women are given lanterns of the color of their class colors. "to guide them through their college years." One lantern is given to each freshman.

Dr. William A. Wirt, Gary (Ind.) school superintendent who stirred the nation last year by charging the brain trust with planning a communist revolution of which Roosevelt was to be the "Kerensky," has been sued for \$400,000 libel by Rose Schneiderman member of the labor advisory board.

Approximately 87 per cent of the colleges and universities of the United States are not broadcasting their football games this fall.

Ohio University (Athens) officials have leased a hotel which is being used as a co-operative rooming house for sixty-five men students.

With the opening of the fall term this year, Columbia University (New York City) started its 181st academic year.

The Massachusetts Institute of Technology (Boston) is the most expensive men's college in the United States—the minimum cost for freshmen is \$1,180 per year.

Hulda Stotter, the canning champion of the United States, has enrolled at the University of Wisconsin at Madison.

A new geophysics course is being offered this fall for the first time at the University of Texas at Austin. It will be taught by Dr. Arnold Romberg.

The Federal government is sending approximately 70,000 students through colleges and universities throughout the United States this

year at a cost of more than \$1,000,000.

This year is the 300th anniversary of the founding of the first secondary school in the United States.

The main subject for debate in junior colleges throughout this country is: "Resolved, that the Federal government shall adopt the policy of equalizing educational opportunity throughout the nation by means of annual grants to the several states for public elementary and secondary education."

Exactly \$159,232,782 was allotted from the Federal emergency funds in 1933-34 for educational purposes. The regular amount of appropriations for education during that period was \$32,255,690.

One hundred new college presidents assumed office with the opening of this fall's term. Last year there were 125 new administrative heads of colleges and universities in the United States. The turnover this year has been about 7 per cent and is greater among the liberal arts institutions than among other types of higher educational units.

STUDENTS URGED TO ENTER POLITICAL FIELD

New Haven, Conn.—(IP)—In an interview published in the Yale Daily News, Justice Harlan F. Stone of the United States Supreme Court, urged all college students to avoid snap courses and extra-curricular activities which have no relation to student work.

"Get interested in your local political organization," he said, however, "and show that you have an interest in what the members are doing. Then, later on, if you are successful in one line of endeavor, you may be able to get into the national field."

He told the students they ought to do a great deal of reading in subjects "which throw light on trends of modern movements."

MINISTERS TEACHERS NEED LESS TIME

What they thought about the proposal to give educators and ministers more time on the air was described by Henry L. Mencken and John Erskine in plain language in letters to the communications commission in Washington.

Of the proposal to give educators 25 per cent of the time over the radio, Mencken said:

"They couldn't fill their whole time without driving all their listeners from the radio. The pedagogues now have all the time they can fill profitably, and more. Their programs in the main are puerile and dull. There is no evidence that they would do any better if they had all day."

Of the proposal to give ministers more radio space, he said:

"If theologians had control of the matter the more raucous among them would soon be making bitter war upon the rest and the air would be given over to a wholesale disturbance of the peace."

Erskine said about it all:

"If 25 per cent of the broadcasting facilities were allotted to this purpose it would mean that 25 per cent of the country's radio time would enjoy complete silence."

MOTHER HELPS GRID STAR TIE SCORE

Shortly before the day of the football game between John Carroll University and Case School of Applied Science, both Cleveland colleges, Mrs. Nellie Willard Brown

mother of Roy Willard, Case right guard, was called to do her best for a member of the opposition team.

She, as a nurse, had to apply therapeutics to the injured left leg of Mike Artale, chief offensive hope of the John Carroll eleven. Mrs. Brown did her job well. Artale got in the game against her son.

The score was 0 to 0.

FOOTBALL STAR OFFERED \$300 TO FAKE INJURY

Alphonse Leemans, star backfield man on the George Washington University football team, received an anonymous letter offering him \$300 if he would fake an injury in practice and then stay out of the game with Tulsa University.

The writer said he was a heavy loser in football bets and would like to recoup.

NEGRO PLAYERS CAUSE 'FEELING' ON GRIDIRON

Strong sectional and race feeling was threatened on the University of Michigan campus for several days before and after the Michigan-Georgia Tech game because of the known desire of the southerners to have no colored opponents and the equally strong desire of the Michigan students to see their star, Willis Ward, a Negro, attempt Michigan's first victory of the year.

Mass meetings were held at Ann Arbor, the local ministerial association passed a resolution against taking the colored player out of the game and there was talk of having a large group of students go down on the field before the game started and refuse to move from the gridiron unless Ward was in the lineup.

Coach Harry Kipke and others of the university coaching staff, maintained a discreet silence throughout the controversy, and Ward himself had nothing to say on the matter.

On the day of the game Ward, dressed in street clothes, viewed the game from the press box. In return, Coach Bill Alexander of Georgia Tech benched his star end, E. H. Gibson, and played Boulware in his place.

Michigan won, 9 to 2. There was no demonstration of any kind.

In the past football games on several occasions have been canceled at the last minute because northern and southern teams could not agree on whether colored players should remain in the lineups of the northern teams.

WISCONSIN MICROBE HUNTERS ARE BUSY

Madison, Wis.—(IP)—One-third of a million specimens suspected of disease have been examined by Wisconsin's microbe hunters in the last two and a half years, it was revealed in a report to Dr. Glenn Frank, president of the University of Wisconsin, by Dr. W. D. Stovall, director of the central laboratory.

The microbe hunters are the scientists who make up the personnel of the state laboratory of hygiene at the university and its eight branch laboratories throughout the state.

The report to President Frank showed that in the two and a half years 337,826 specimens suspected of disease had been examined in the laboratories.

A man wandered into a tennis tournament this summer and sat down on the bench.

"Whose game?" he asked. A shy young thing looked up at him hopefully.

"I am," She replied.

He: "I dreamed of you last night!" She: "How did you make out?"

Advertise in The Miner



THRU THE TRANSIT

by Pin, who has practically nothing to say.



Well, this week-end was just about too much for us. Nothing happened all week and then all at once everything happens too quick or us to catch onto it.

However, a bunch of the boys decided to throw their binge in St. James last Friday night and ran into disaster when they arrived back in Rolla. Holz, Ishiguro, Ballard, and a few others journeyed down to Jintown and came back on the bus. After having a mighty fine time on the bus they held it up a while in Rolla while they told everybody good-bye. Our mighty aw here in Rolla didn't appreciate his and tried to convince the boys of the error of their ways by bouncing a black-jack off their heads. That's a habit the law around here has: they are too brave with their gun, bily, and badge.

The Pi K. A.'s threw themselves a very dry dance last Friday night and disproved the old adage that one cannot have a good time at a dance unless it is so moist that bathing suits are in order.

Theta Tau had a shin-dig out at the Pennant Saturday night in honor of their newly initiates. We don't know whether it was an open dance or not, but everybody in town seemed to be either upstairs or downstairs. And most everybody there seemed to be either having an argument or patching up an argument with the management of the place.

Gentle Miner, things have been a little dull this week, but with a Springfield game coming up this next week-end and a Junior Club God Rush, anything is liable to happen so we will try to tear ourselves away from our studies and gather a bit of dirt for you all.

vate laboratories throughout the United States. A Drosophila information service is maintained by the Carnegie Institute.

NEW VOTING MACHINE INVENTED BY PROF.

The quick collection and tabulation of votes will be made possible in the future by the use of the "televotes," an apparatus for electrical voting, its inventor, Dr. Nevil M. Hopkins, former lecturer at New York University, claimed recently in New York City recently in demonstrating his new device.

The apparatus devised by Dr. Hopkins is so arranged as to make voting entirely secret, as well as permitting of voting by large audiences simultaneously. He even envisions large audiences, in theaters and other gathering places, voting at one time on some national question. The results would be tabulated by some central agency set up for that purpose.

Each person in the audience would be equipped with a small push button with which he would record his vote. This button would be connected to a resistance cir-

cuit, and the total resistance offered would give the percentage of votes registered for or against the question.

THE WATER BOY'S BROTHER WAS THERE

Like all coaches, "Gus" Dorais of the University of Detroit is driven nearly mad by requests for passes during the football season. Not the least of his demands come from his own two sons, Tommy and Billy, who are the most popular boys in Detroit when football holds sway.

But the blow-off came the other day when Tommy put the bee on his father for a couple of tickets after he had already acquired a handful.

"Aren't you going a little strong on these complimentary tickets?" asked the senior Dorais. "You

know we have to save a little space in the stadium for the pay customers."

"I know, Pop," replied Tommy, "but you see this is a general occasion. You see the water boy's brother is in town."

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FOOTBALL CONTEST IS DRAWING TO CLOSE

College students are apt judges of exceptional playing and keen readers of football news, according to an announcement made recently by the Collegiate Digest Section, the rotogravure supplement which is conducting an All-American Football Team contest for The Miner and a large number of undergraduate newspapers throughout the country.

Since the first of the current year, when an entirely undergraduate All-American Football Team was announced, the elections made on the coupons contained in Collegiate Digest Section for that purpose have been above the average, according to the judges.

The rules by which the first All-American Football Team will be chosen by the students of the undergraduate institutions those teams represent, are as follows:

Each student is allowed to vote for his or her selection of a representative All-American Football Team. In case the voter changes his or her mind after the first selection has been made, it is permissible under the rules of the contest, to cast a second ballot. Only one complete team may be selected each week by any one individual.

Ballots cast by students at the School of Mines and Metallurgy may be mailed direct to Collegiate Digest Section, P.O. Box 472, Madison, Wis., as per instructions on the coupon, or they may be mailed or brought directly to the Miner office, to be forwarded to the Collegiate Section.

The members of the team selected will be presented with gold football medals by Collegiate Digest Section in behalf of the undergrad-

FLY IS VALUABLE FOR RESEARCH WORK

To most people a fly is nothing but a pest without the slightest redeeming quality to justify its existence, but to some scientists the little fellow is quite an aid in carrying out research investigations.

In the genetic laboratories of the University of Southern California, Prof. Catherine Beers is studying the hereditary traits of thousands of flies—flies smaller than the ordinary house-hold variety, but boasting the formidable name Drosophila Psuedo Obscura—in an effort to add to the world's knowledge of the heredity.

It is the short life span of the fly that makes him valuable to science. Having offspring every twenty-five days, in a year's time approximately thirteen generations may be studied.

Human, animal and plant life, all are governed by basically similar laws of heredity and the findings of studies of the fly may be applied to human hereditary problems, animal husbandry and agriculture.

Such diseases as profuse bleeding and color blindness are definitely sex-linked and hereditary in nature, and the answers to many inherited human ailments perhaps lie in our modern genetic laboratories.

In addition to the research studies being carried on by Professor Beers at U.S.C. work also is being done along similar lines with the same species of fly at the University of Edinburgh in Scotland, California Institute of Technology and Columbia University, with other species being studied at nine foreign countries and numerous prizes represented in this pool.

"I like that
fragrant Granger"



... in a
common-sense
package—10c

In the manufacture of Granger Rough Cut Pipe Tobacco the Wellman Process is used.

The Wellman Process is different from any other process or method and we believe it gives more enjoyment to pipe smokers.

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A Handy Place to Eat



SPORTS



MINERS TO BATTLE SPRINGFIELD BEARS

The Miners will journey to Springfield for their annual attempt to force the Maroon and White Springfield Bear to scurry back into his den, this Friday, and, incidentally, to bring home their first victory of the season. Their bad luck, that is beginning to touch on the perpetual, is still hovering over the Miner camp, in the way of injuries, with Aylward and Suhre out with broken ribs, and Vincent out with a broken hand.

Coach Grant has witnessed several of the Springfield games this season, and feels that he has their attack well analyzed. The Bear offense centers around Chittim, a full back, who punts and passes nicely, and whose passes have been well received by Morris, right end.

Stephens, the Bear's rangy quarterback, is a rangy ball carrier and has done his share of ground gaining this season. Chittim is also the mainstay of the Bear's defense, offering a formidable secondary in backing up the line.

The Bear's defeat of Warrensburg last week by one touchdown can be accredited to the smoothness with which her passing attack functioned, and add to the threat that the Springfield aggregation holds for the Miners.

The Bear's lineup is composed of comparatively young men, in that upper cassmen on the team are in the minority. However, Coach Briggs has the nack of put-

ting his ideas across to his men quickly and thoroughly, and does not consider the lack of experience in his men a great handicap.

The probable starting lineup for the Bears is as follows: Wilhite, left end; Stone, left tackle; Newman, left guard; Mesley, center; Lewis, right guard; Fox, right tackle; Morris, right end; Stephens, quarterback; Bodanske, left half; Berry, right half and Chittim, full-back.

The Miners had some hard workouts last week and then took advantage of their open date with a three-day rest. If no more injuries develop in the next three days of practice, they should be in the pink of condition for their first daylight game since Arkansas University at Fayetteville.

The Bears have the psychological advantage of playing on their home field, but the Miners have instilled in themselves, that rivalry which began with a warm but hastily cooling reception at Springfield in 1932, coupled with the fact that their slate so far this season has been marred by frequent and uncanny breaks, and are doubly determined to keep Springfield from scoring.

—A MINER SAYS—

Ask Massero what happened at the Grant Domicile Saturday night. We can't figure out whether they were celebrating, their joys or drowning their sorrows. 'Twas mid-

semester, you know.

The Theta Tau's claim that they have unearthed a successor to Happy Sage in Wally Berger from St. Louis.

A nice young thing from Christian College wants a date for St. Pat's. All applications received at The Miner office.

The orchid of the week goes to Bob Lange's date for the Pi K. A. pledge dance—what a coincidence, she's from Christian, too.

Eddie Simpson—a la Drum Major—is giving the younger set of Rolla and St. James quite a rush. He even walks them home from High School. Shamey, shamey on Napoleon.

'Twas quite a sight—they do say—to see the KING put his arm thru the show case Monday—but the Senior E.E.'s were frightened to death.

'Tis said that several of the Senior Mechanicals have been asked to move—maybe that old spirit is coming back after all.

Kohler's little girl from Texas was here for the Theta Tau dance and he entertained her by taking her riding in Barber's conglomerate. Some time!

BEAT THE BEARS

COURT WORK IS STARTED

Drury College of Springfield Begins Basketball Campaign With 20 Turning Out

Springfield, Mo. — While most colleges were pointing toward a homecoming or Turkey Day game, Drury College today turned its mind toward basketball and twenty men replied to the initial call for candidates.

Prospects seemed exceptionally bright; according to Coach Albert L. Weiser, Drury mentor, it has the best freshman prospects in years turned out and six lettermen were among the candidates.

The four returning lettermen are Bill English, center, Bob Steele, forward, and Ed Mitchel, forward, all of Springfield; Bob Glenn, forward, formerly a star athlete at Central High School in St. Joseph; and Eugene Westover and Bob James, both of whom are from Branson.

Among the outstanding freshman candidates are James Paul, four year letterman from Southwest City, John Lindsay, four year letterman from Conway, Clifford Strobach, who was a member of the St. James High School team which advanced to the finals in the state basketball tournament at Columbia two years ago, Allan Bailey of Hol-

lister, who last year was a member of the crack Fort Smith Junior College team, Irwin Buchanan, last year a member of the Marshfield High School team, Harold, who last year played with Vandalia High School, Morris Hull, formerly guard with the Mount Vernon, Ia., five, David Manning, formerly a forward with Joplin High School, George King, formerly a member of the Camdenton High School team, and Jimmy Ewing, 1933-34 captain of the Springfield Senior High Bulldogs.

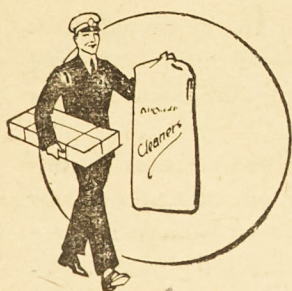
Coach Weiser announces that he has accepted an invitation to participate in the Winfield Tournament at Winfield, Kan., December 31 and January 1, 2, and 3. The schedule includes ten conference games, five of which will be played on the road and five at home. Two games have also been scheduled with Tulsa University. Weiser plans to schedule other games before the end of the season.

Drury is a member of the Missouri College Athletic Union.

DRURY GEOLOGY CLASS RETURNS FROM FIELD

Springfield, Mo. — Thirty-five Drury College students returned early last week from Graydon Springs Field Station after a week of geology study. The station was rehabilitated after years of idleness, last spring under the direction of Prof. Edward Clark, head of the geology department at Drury.

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When your garments **MUST BE** cleaned for some special social function, you'll avoid possible disappointment by sending them here. Our delivery service is as pleasingly prompt as our methods of dry-cleaning are thorough and efficient. You can always be sure that your renewed clothes will be returned to you **ON TIME!**

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Why Not an Up-to-Date
HAIRCUT

Try The Modern
Trend in Barbering
at the
**MODERN BARBER
SHOP**

WEDNESDAY
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By George
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HISTORY OF BANANA TRACED FROM GARDEN OF EDEN TO TODAY

By George W. Eckert

The story of the banana, as far as the records show, begins in the Garden of Eden, where this fruit was supposed to contain all the knowledge of the good and evil of the world.

Even today, bananas are known as being either good or bad. The oldest bananas in existence are two petrified specimens kept in a well known museum in the east which were found in an Inca temple in Peru. For fifty years, these two specimens, dug up by explorers, constituted the horns on the skeleton of a pre-historic animal in this museum; and the fact that they were bananas was not known until they were recently inspected with a microscope.

The banana has been an influence in engineering during the past and will probably be so in the future. The Egyptian pyramids, according to one theory, were built by sliding large stones along on banana skins.

The model for the Leaning Tower of Pisa was a banana; but somehow, the construction engineer did not get the curvature as designed, but got the leaning effect. The banana is the ideal stream-lined fruit and it is predicted that the automobile and airplane of the future will look like a banana.

In the heart of Africa, bananas grow very large. A banana must be cut from the rest of the bunch with an axe, and has to be carried by at least three men. One of the strips of skin is peeled off and the pulp or flesh shovelled out, and the hollowed part of the skin used for a canoe.

In the days of the Puritans, grocers were not allowed to display bananas, as they were regarded as being "naked." A Puritan always closed his eyes when peeling a banana; it was bad enough for them to look at a banana just in its bare skin.

Up to 1927, bananas were sold in all European countries except Russia. This may be due to the fact that the banana is not a Red, or it may be that they dislike anything of such a smooth shaven appearance. However, there is a rumor that when the first cargo of bananas were brought to Russia, they were taken to the Czar, who grabbed one of the slightly green fruit and took a healthy bite of it, but forgot to peel it. He thereupon declared a ban on bananas.

The chief source of the banana is now from Central and South America, as can be observed from the following conversation heard in a chain drug store:

"Jamaica banana split for me?"
"We don't have bananas."
"Get me a Cuba sugar for my coffee."

"Yucatan to your own coffee."
It was once a belief that since bananas were yellow, they would cause Yellow Fever and Yellow Jaundice. Quite a few people declined from eating them for fear of acquiring an Oriental tint, as the origin of the banana was in Asia.

Many attempts have been made to cross the banana with other fruits, but all efforts have been in vain. However, an unknown na-

turalist, some years ago, was walking across an intersection, the streets of which were named Violet and Walnut, eating a banana.

The idea immediately struck him that he crossed a violet and a walnut with a banana, and he proceeded to send an account of this triumphal feat to a scientific journal, describing a banana with violets growing out of one end and walnuts hanging from the sides.

The banana is the most gullible of all fruit, because anybody can skin a banana. They are just like children, as they are easily spoiled and must be handled with care.

They are also very sociable; there is not a single banana that can not be called one of the bunch.

Several centuries ago, a noted scientist was sitting under the shade of a banana tree thinking of a big T-bone steak; and when an over-ripe banana fell and squashed on his head, he conceived the first law of gravity.

The number of bananas on a bunch varies, and when bananas were first cultivated, there were only about five or six on a bunch. The original name of the fruit was not simply "banana," but if the bunch contained five fingers, as they are called, their name would be "banananana," and if they contained six fingers, the name would be "bananananana." Thus the name would indicate the number of bananas or fingers on one stem.

The banana contains a relatively large amount of vitamins. This was first discovered by a Professor Ben Enna, who conceived the idea of bananas having vitamins when he overheard someone say "In-vitamin for a banana or two."

The banana and potato contain about the same amount of calories per pound, the same percentage of proteins, carbohydrates and minerals, so the Army K.P.'s have petitioned that the banana be substituted for the potato to make peeing easier.

It may be noted with interest that when Sir H. M. Stanley was lost in the middle of the African Jungle, he was stricken with a severe attack of fever and all that he could eat was bananas and ice cream.

In time of epidemics and spreading diseases and plagues, the banana can be relied upon for all food and drink. The banana skin is germ proof, and worms and insects do not penetrate into the skin, so that as long as the skin remains unbroken, the banana is 100 per cent safe.

For drinking purposes, the flesh of the banana can be fermented and distilled to produce an alcoholic beverage, which is comparable in taste and other qualities to any alcoholic beverage.

Since germs can not live in alcohol solutions, there would be no danger of contracting disease by drinking this beverage. A diet of bananas and banana liquor would be well, without the bananas. One drink of banana liquor and you're ripe for anything.

HERE AND THERE—

When Joe Murphy was asked to look at a gun collection he replied, "Why should I look at guns when I'm a 'pistol'?"

Is it really true that Dr. Mann

got lost in the Capitol Building in Jefferson City last Saturday.

Come on Freshmen, give us a dance. We want the "hop" before Christmas, not afterwards, when we are all tired of dancing.

An alumnus was recently heard to say, "What happened to those Pi K. A. boys that were rushing you—or was it C.W.A.?" — Maybe F.E.R.A.

If the arguing on the football field can be stopped, our team will win. What we want is one team, not eleven individual stars. Also, we can get along without the dynamite that is being shot off at games.

Headache tablets were sold by the dozen after the "mid-semester" celebrations held Saturday night.

Several of the Profs. were heard to say, "What am I to do, I can't flunk the whole class, and no one made a passing grade."

In the drill period Wednesday the band remained at rest after the two companies had been called to attention. The spectacle presented looked bad enough to fit into a "Laurel and Hardy" comedy.

When "Bud" Folsom graduates from this school he is going to Georgia and start raising cotton. His theory is that neither a farmer or an engineer make any money, but the farmer starves to death slower.

EDUCATIONAL SYSTEM NEEDS CHANGES

A nation-wide campaign for revision of the present day educational system has been launched in New York City by Dr. Ralph B. Winn of the College of the City of New York philosophy department.

In a statement which contained a burning denunciation of educational institutions in the United States, Dr. Winn outlined the changes he would make in their curricula.

Claiming that education has not made any progress for so long that it has become "irrational and obsolescent," Dr. Winn proceeded to decry the fact that nobody seems to be making a "sincere and serious" study of educational problems with the intent of suggesting really valid changes which will make of education a "useful and pleasurable," not a mere formality of collecting credits and points.

He asked a curriculum that "prepares us for life by revealing its deeper significance and value; that gives us a better understanding of self, society and the world." He claimed that one of the purposes of higher education should be the "building of leaders in every branch of human endeavor."

He asserted that the present system of education is not fulfilling any of its purposes nor is it yielding any worthwhile return; that "a little job in a department store or a gasoline filling station" is not an adequate or sufficient compensation for the additional time devoted to learning.

Dr. Winn believes that the administration, the faculty and the students of schools should meet in friendly discussion to work out a satisfactory program which would

fulfill all the requirements he gave and remove all the vices he cited.

He wants to eliminate cramming and the waste of time and to substitute therefor a program that will develop the mind, character and taste. He wants to eliminate quantity in education and the educated and to have instead quality in both. Educational institutions are, he claimed, "capable of great contributions to science, the arts, and humanity," if they make proper use of the "facilities they possess for study and research."

The time has come for action, he said in his statement; the time for promises is gone. The time has come, he intimated, for politics and business to be removed from education and for truth and learning to take their places.

Dr. Winn received prominence last year when he conducted an extra-academic class of students to prove that learning under a state of hypnosis was more permanent and satisfactory than learning under ordinary conditions as the instructor was better able to hold the undivided attention of the pupils.

GERMAN STUDENTS TALK AND HIKE

American college students miss a great deal by not being more leisurely in their activities, in the opinion of Fraulein Elizabeth Borgwardt, German exchange student at the University of Vermont.

In a recent interview she said: "At a German University ball we always have tables to sit at where we can talk and drink our wine. Over here in the United States the main object seems to be to dance as much as possible in the time allotted for dancing."

"Also, I don't understand why American girls don't like to hike. At home we always walk for the pleasure of it. If it's a rainy day we go to a restaurant and sit for hours, talking. In Germany we have always thought of the United States as the land of sport, and when I got over here I was surprised to find that after all not many of the students participate in athletics at all."

NEW YORK COLLEGE HOLDS DEMONSTRATION

As a result of an anti-Fascist demonstration carried on in New York City by City College students

ROLLA STATE BANK

C. D. VIA
The House of a 1000 Values
ROLLA, MO.

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FRESH MEAT
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GROCERIES
PHONE 71

JIM PIRTLE
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Fine Repair Work a Specialty
38 Years' Experience — —
28 Years in Rolla — — —

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YOUR BUSINESS APPRECIATED
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while a large group of Italian students were guests on the campus, college officials have suspended the student council.

Moreover, the faculty has instructed its committee on student activities to investigate the campus and the Student, the two undergraduate newspapers of the college.

On the day scheduled for the appearance of the Italian students on the campus, leaflets were distributed calling for the anti-Fascist demonstration, and signed by the Student council, faculty members charged.

Both papers gave editorial support to the students who all but broke up the meeting which was being addressed by the Italians, engaged in a good will tour of the United States at the behest of Benito Mussolini.

City College has been a hot bed of trouble between students and faculty for the last few years. Last year the president of the college had to use his umbrella to get through a picket line of students standing around the college football field.

Advertise in The Miner

PROGRAM ROLLAMO THEATRE

WED. & THURS., Nov. 14-15
"HAPPINESS AHEAD"
with Dick Powell, Josephine Hutchinson, John Halliday and Frank McHugh
ALSO
Novelty,
"Hi-De-Ho."
Krazy Kat Cartoon,
"Katnips of 1840"
Movietone News
Prices 10 and 35 Cents
Shows 7:15 and 9:00

FRIDAY, Nov. 16
"THE FIREBIRD"
with Veree Teasdale, Ricardo Cortez, Lionel Atwill and Anita Louise
ALSO
Musical Comedy—
"I'll Be Singing You."
Prices 10 and 25c
Shows 7:15 and 9:00

SATURDAY, Nov. 17
MATINEE and NIGHT
"CASE OF THE HOWLING DOG"
with Warren William, Mary Astor, Helen Trenholme and Allen Jenkins.
ALSO
Merrie Melody Cartoon,
"Mirrors."
Musical Comedy,
"Little Girl With Big Ideas."
Prices: Matinee 5 and 15 cents
Night 10 and 25 cents
Shows: 2:00 — 7:15 — 9:00

SUNDAY & MONDAY, Nov. 18-19
SUNDAY MATINEE
"SERVANT'S ENTRANCE"
with Janet Gaynor, Lew Ayres, Ned Sparks, Walter Connolly and Marie Dresser.
ALSO
Tin Type Novelty,
"Heart of Valeska."
Movietone News
Prices Matinee 10 & 25c
Night 10 and 35c
Shows: 2:30-7:15 and 9:00

TUESDAY, Nov. 20
BARGAIN NIGHT
"MENACE"
with Paul Cavanaugh, Gertrude Michael, Henrietta Crosman and John Lodge.
ALSO
Comedy, "Men In Black."
Prices 10 and 25c
OR TWO FOR 10 and 35c
Shows 7:15 and 9:00

\$2.95

A Sale of Men's Genuine Suede Leather Coats
HELLER'S

Fresh AGE & SHAW CANDIES Reasonably Priced at
SCOTT'S—The MINER'S CO-OP

TRIP

poured in a single 24 hour day; 113,000 cubic yards were poured in one month. Altogether, enough concrete was used to build an 18-foot highway from St. Louis to Topeka, Kan.

The power station section is 511 feet long and has eight large and two small head gates made of structural steel, the larger ones weighing 70 tons each. Through one of these gates, at full load, 29,400 gallons of water flow every second into a 33,500 horse power turbine, weighing 50 tons, and connected by a 37 1-2 ton water cooled shaft to a 21,500 k.w. generator. The plant's present capacity is 129,000 k.w.

The generators deliver their power at 13,800 volts which is stepped to 132,000 volts by means of huge oil cooled transformers before being sent out on the transmission lines to St. Louis, 136 miles distant, and Rivermines, Mo., 120 away. In the average year these two cities and points on the Union Electric connected system receive 400,000,000 kilowatt hours from this one plant alone. This electrical energy is equivalent to 270,000 tons of coal necessary to produce the same amount.

The unique thing about the power station is that each of the six generators is placed under a separate removable roof, instead of being housed in a separate large building, each having an enclosed water-cooled air circulating system. Any necessary repairs to the rotors can be made under the removable covers when raised by the large 50-ton overhead crane.

**PIPE SMOKERS
ATTENTION**

Please fill in the following blank and return to the Ballot Box in Parker Hall.
Print Plainly

Name _____
Address _____
What brand of pipe tobacco are you now smoking? _____
Check one of the following reasons why you are smoking the above brand — —
Price _____
Taste _____
Aroma _____
Advertising _____
Anything Else _____
(Specify What)

Power generated at the Osage plant is delivered to the Union Electric Light and Power Company by means of a wood pole transmission line to the Page Avenue substation of St. Louis, and by a double circuit steel tower line to the lead district at Rivermines.

The wood pole lines consists of three steel reinforced aluminum cables, each approximately 3-4 inch in diameter and capable of transmitting the power of two of the generators. The steel transmission line consists of two sets each of three copper cables, about 5-8 inches in diameter, each set of which is capable of handling the energy developed by two generators. Two million pounds of copper and over half a million pounds of aluminum cable were used for the transmission lines.

The complete construction of the dam itself cost over thirty million dollars.

By the building of this huge monument to the engineers, a beautiful lake having a capacity of 650 billion gallons of water and a shore line of 1,300 miles was created, as well as being a feat of material benefit to Missouri. This huge lake is from one to five miles wide and 129 miles long, covering over 17 per cent of the counties Camden, Miller, Morgan, St. Clair, Benton and Henry.

**EPSILON PI OMICRON
HOLDS BUSINESS MEET**

The Epsilon Pi Omicron society

CALL 163

**THE FARMERS
EXCHANGE**

FOR POULTRY, EGGS
AND GROCERIES
—WE DELIVER—

FOLLOWILL DRUG CO.

SEE OUR NEW
**M. S. M. STATIONERY
AND
BELT BUCKLES**

PINE STREET MARKET

PHONE FREE DELIVERY 77
GROCERIES MEATS VEGETABLES

OUR

Texas Chili and Tamales are
DELICIOUS

Rollamo Soda Shop

619 FREE DELIVERY 619

held a regular meeting in the General Chemistry lecture room Wednesday evening, Nov. 7, at 7:30. A general business meeting was conducted in order and the rest of the meeting consisted of a general discussion by the members and pledges.

**DRURY PLAYERS WILL
GIVE FIRST PLAY**

Springfield, Mo.—The cast of "The Shining Hour," all-school production to be given under the sponsorship of the Drury Players, hon-

orary dramatic society at Drury College, has been announced by Mrs. Sue Turk Oxment, director.

Mr. Robert Bodine of Springfield, will portray the part of Harry Linden, Miss Margaret Chandler of Ash Grove will play the part of Judy Linden, Miss Marietta Root of Forsyth, has been cast as Mariella

Linden, Miss Ruth Vandermaaten of Springfield will play the part of Hannah, Charles Spangler of Tulsa has been cast as David while William Wear of Springfield has been awarded the part of Mickey Linden.

AFTER

THE GAME

MORNING and NOON

or NIGHT

**ATLANTA
TAVERN**

DANCING EVERY
Wednesday and Saturday

BILLIARDS

Snooker — Pocket — Call Shot

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NEXT TO FOLLOWILL'S
DRUG STORE
THE BEST EQUIPMENT
BETWEEN
St. Louis and Springfield

SERVE
TUCKER'S
PASTEURIZED MILK
PHONE 437

Fair enough—

WE tell you that Chesterfield Cigarettes are made of mild, ripe tobaccos. We've told you about the paper—that it's pure and burns right, without taste or odor. We have said that Chesterfields are made right. The tobaccos are aged, then blended and cross-blend-

ed, and cut into shreds the right width and length to smoke right. These things are done to make what people want—a cigarette that's milder, a cigarette that tastes better—a cigarette that satisfies.

You can prove what we tell you about Chesterfield. May we ask you to try them—that would seem to be fair enough.



Strictly on their merits

—the cigarette that's **MILDER**
the cigarette that **TASTES BETTER**