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The Missouri Miner, October 14, 1936

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THE MISSOURI MINER

MISSOURI SCHOOL OF MINES AND METALLURGY

VOLUME XXIII

ROLLA, MO., WEDNESDAY, OCTOBER 14, 1936

NUMBER 5

Prof Lovett Reviews Principles of A I E E Branch

ED LOGAN ELECTED PRESIDENT AT FIRST MEETING OF YEAR

Professor I. H. Lovett, reviewed the student branch of the A. I. E. E. last Thursday evening with an introduction of the principles for which the Student A. I. E. E. stands. The Missouri School of Mines branch belongs to the seventh district which includes schools in Missouri, Kansas, Oklahoma, Arkansas, Texas, and New Mexico. The M. S. M. branch is composed of two parts, (1) National, and (2) local.

The election of officers for the chapter concluded with the following officers: Ed Logan, chairman; Wm. Busch, vice-chairman; Jess LeGrand, treasurer; Robert Seibel, secretary. Executive committee: John McLaughlin, Roy Mathews, and Leroy Smith.

It is planned that some prominent speakers will appear on the programs of the branch throughout the coming year. Both silent and sound moving pictures will be given at these A. I. E. E. meetings. It is often a member's privilege to offer short talks pertaining to electrical engineering. Two such talks were rendered by Messrs Wm. Busch and Ed Logan.

Mr. Busch's talk involved the young engineer under changing conditions as outlined by R. E. Hellmund of Westinghouse Electric in Electrical Engineering. Primarily the engineer deals with fundamentals in engineering but other than this he deals too with people, economics, psychology, and the difficulties in broadening his education. It is believed that the engineer should make a careful study of the above as regards his specialization. There must be a revision in engineering education.

Mr. Logan discussed in technical terms the means of designing electric motors in practice. Mr. Logan has had some experience with the Emerson Electric Co. in this field. He gave a most interesting talk.

Members of the M. S. M. branch have an opportunity to attend a branch and National conference in Dallas, Texas, October 26, 27, 28, at a very reasonable rate.

Refreshments were served in the usual style. The choice delicacies were punch and cookies. The punch was furnished by Mrs. Lovett.

—M.S.M.—

ELECTRIC ORGAN ON LECTURE PROGRAM

Bertram S. Webber will appear in a concert at the auditorium of Parker Hall at 8:00 o'clock p. m., on Thursday, October 15, using the Hammond Electric Organ. This is a new mechanical device, which, in addition to rendering music of unusual clear and beautiful tones, is of mechanical interest: All the students of the School of Mines are invited to the program.

—M.S.M.—

CORRECTION

Last week, mention was made of a new school song. The Silver and Gold is not a new school song but because it has been played so little lately it was new in the estimation of the reporter.

ALPHA PSI OMEGA TO PRESENT PLAY

For the year's first presentation Alpha Psi Omega, the dramatic fraternity, presents "The Sap" as a feature of the General Lecture program on November 19. The play will be directed by Mrs. C. J. Millar, who has had considerable experience in this field. The members of the cast for this production are as follows: C. R. Maise, Betty Buckey, Bill McKee, Mary Tyson, Emily McCaw, and Joe Mooney.

This first presentation of Alpha Psi Omega promises to be even a greater success than hilarious comedies, "The Tightwad" and "Some Baby" which were presented last year.

—M.S.M.—

Senior Mets to Leave on Oct. 17

SIX MEN, ACCOMPANIED BY PROF. CLAYTON GOING

Messrs Beinlich, Benner, Culbertson, Frame, Jones, and Post, seniors in metallurgical engineering, will leave for Cleveland, Ohio, Saturday, October the 17th, on their senior trip. They will be accompanied by Professor Clayton.

The week of October 18th was chosen for this trip because of the fact that the National Metal Congress will convene in Cleveland at that time. At this Congress, the American Society for Metals, the Institute of Metals and the Iron and Steel Divisions of the American Institute of Mining and Metallurgical Engineers, the American Society of Mechanical Engineers, the Wire Association, and the American Welding Society will join in technical sessions.

A tentative trip program follows: Monday—a. m.—"Ageing of Metals", Institute of Metals. (Hotel Statler.)

p. m.—American Welding Society. (Hotel Cleveland.)

Tuesday—Inspection Trips: Cleveland Tractor Company, Chase Copper & Brass Co.

Wednesday—a. m.—Campbell Memorial Lecture*. Noon—M.S.M. Alumni Luncheon. (Hotel Statler.)

p. m.—National Metal Exposition. Municipal Auditorium.

Thursday—Inspection Trips: General Electric Company, Republic Steel Products Co., National Screw & Mfg. Co.

Friday—a. m.—Inspection Trips.

p. m.—"Symposium on the Plastic Working of Metals." (Hotel Statler.)

Saturday—Inspection Trips.

*The Campbell Memorial Lecture will be particularly interesting to M. S. M. men because of the fact that J. P. Gill, '18, will deliver this lecture. J. P. Gill is Metallurgist for the Vanadium-Alloys Steel Company and its subsidiaries, the Anchor Drawn Steel Company and the Colonial Steel Company. Mr. Gill is a nationally known tool steel authority.

The Alumni Luncheon, to be held at the Hotel Statler on Wednesday noon, has been arranged because of a very successful dinner given last year in Chicago at the time of the National Metal Congress. Last year the M.S.M. Dinner was the only one arranged. This year Carnegie Tech, Case School of Applied Science, Lehigh University, and the University

Continued on page three.

General Lecture Program for Year Listed

PROMISES TO BE BEST IN SEVERAL YEARS AT SCHOOL OF MINES

A program given by Bertram S. Webber October 15, 8 p. m., using the new Hammond Electric Organ, a device which not only produces fine quality music but has very interesting mechanism. All students and public are invited.

November 9, 8 p. m., Kryn and his Symphony Orchestra composed of 40 expert musicians, including the talented soprano soloist, Miss Margery Maxwell. The success of this orchestra, which is now making its thirty-second annual coast-to-coast tour of leading universities of the country in addition to regular public performances, is proven by many complimentary comments made recently by the leading newspapers of the nation. The booking of this number is tentative, inasmuch as the sale of non-student tickets may not be sufficiently large to enable the Committee to work out a well balanced program for the year and at the same time meet the expense which a number such as this one entails.

A play, the selection and cast yet to be decided upon, will be presented November 19, 8 p. m., by the M.S.M. Players.

A lecture, "Adventures in the Stratosphere," illustrated with slides and movies of the exploit which brought the stratosphere record to the United States will be given by Captain A. W. Stevens, Commander and Scientific Observer, National Geographic Society—Army Air Corps Stratosphere Expedition.

April 6, 8 p. m., the world famous explorer and archaeologist, Count Byron DeProrok, will give a lecture illustrated with slides and motion pictures called "Lost Worlds." This is a very colorful lecture. You are taken for a journey, verbal and visual, to those ancient civilizations whose very existence was unknown to us until recent years. This should prove a very interesting number to every one.

In late April the Missouri School of Mines R. O. T. C. Band will give a concert.

Due to uncertainties concerning dates, a final selection has not yet been made of the remainder of the numbers on the General Lectures Program, however, they will be chosen from the following: The youthful, extremely interesting, dynamic, Miss Gloria Hollister, who is William Beebe's technical associate and is at present leading her own expedition into British Guiana, in her new lecture "Jungle Adventure" illustrated with movies and slides.

The veteran Hollywood adventure producer, Captain John D. Craig, telling the high spots of his nine years adventuring with his own band of young movie technicians shooting professional motion picture thrillers around the world and underseas illustrated by movies in his lecture "Adventures Producing Travel-Thrill Pictures."

The most talented of all American solo-actresses, Helen Howe, with her pungent, gay, remorseless, satire, who has just returned from a very successful London season, in her original "Characters and Caricatures."

ORTON SOCIETY ENTERTAINED BY PROF. DODD

The regular meeting of the Orton Society which is composed of the students and professors of the Ceramic Department was held at the Colonial Inn, Thursday, Oct. 8th.

Preceding the meeting the members of the society were entertained at lunch with Professor Dodd as host. During the dinner the members gave the interesting and diverse themes that lead to their decision to become Ceramic Engineers.

Following the very palatable lunch a talk was given by Frank Zvanut on the life of Edward Orton, Jr., who was the originator of Ceramic Engineering Education in the U. S.

—M.S.M.—

Dinner Given For Prof Bradley

IN HONOR OF RETIRED ENGLISH PROFESSOR'S 13 YEARS AT M. S. M.

Tuesday evening, September 29, Department of English entertained at dinner in honor of Professor S. P. Bradley, who retired from active duty in the Department at the beginning of 1936-37 session of the School of Mines.

Professor Bradley came to Rolla in 1914 as Superintendent of schools, after having held similar positions in Warsaw, Doniphan, and Elsberry, in addition to a tenure of eight years in Springfield High School. He remained in Rolla until 1918, when he went to Colorado as superintendent of (Wellington) schools. He returned to Rolla in 1921 as teacher of English to the soldiers who were here in training for the World War. In 1923 he was appointed a member of the English Department of the School of Mines with the rank of Assistant Professor, from which position he has now retired. He is a graduate of the State Teachers College at Kirksville and of the University of Missouri. In addition to his service as teacher, Professor Bradley served four terms as County Superintendent of Schools of Greene County and for many years was active in the executive affairs of the Missouri State Teachers Association.

At the dinner given in his honor, emphasis was directed to what his colleagues agreed were two of his outstanding characteristics, namely, his conscientiousness and his humaneness. He always did his work with meticulous care and was never known to shirk a duty imposed on him by the department or the school. Students found him eminently fair and just, but at the same time kind and considerate. He is missed and will continue to be missed in the classroom and on the campus.

And so another good man has retired from the faculty of the School of Mines after a lifetime of active service in the field of education.

The exciting colorful Topsy Sarg in "An Evening with Tony Sarg." He amuses his audience with a small stage and a number of marionettes, presenting each in an amusing little act of a minute or two, and relates a number of very interesting and amusing anecdotes in his own exciting career. He also draws colored lighting sketches of members of the audience.

—M.S.M.—

If you would have friends, be one.

Prof Rankin Speaks Before Freshmen in Lecture Period

STRESSES NECESSITY OF MATH. IN ACTUAL PRACTICE

Last Thursday during the regular Freshmen Special Lecture period, the "green-caps" were addressed by Prof. R. M. Rankin of the Mathematics Department. Prof. Rankin's most opportune subject was "Mathematics—A Necessary Tool For Engineers", in which he stressed the importance of mathematics in courses in school and especially in actual practice.

Prof. Rankin spoke in a rather informal way and used many humorous comparisons to get his point across to his unusually eager listeners.

Stating that definitions are very important, the speaker defined two terms, that of mathematics and that of engineering.

"Mathematics is that science which deals with the necessary and exact among physical objects with respect to their number, shape, size, and relative position. So when we say mathematics, we mean that Queen of sciences, that framework which underlies all sciences and that foundation of which all sciences rest. When we say "engineering", we mean the scientific use of natural forces and materials in construction, production, and operation of works for the benefit of mankind. So we take it that an engineer is any man who brings about these benefits through the application of the principles of science."

Prof. Rankin then raised three points, "How are principles found?", "How are these principles stated?", and "How are these principles applied?", answering each in turn and proving that mathematics is quite important in all of the answers.

"In talking over this subject with a few of the seniors at M. S. M., I find them unanimous in the statement that it is impossible to pass most of the courses in almost all of the departments on the campus without a fair knowledge of the mathematics taught here." This statement gave the freshmen something to think about.

"To my knowledge there are three types of engineers—the executive, the routine, and the research. Of these the first merits no great consideration, for he is really not an engineer. He does not apply engineering principles in his job. If such a need should arise, he hires a good man for the job. This man is the second type. He must be able to handle such problems as may arise. Thus we note that this type needs to be versed in the fundamental principles of mathematics. The research engineer is becoming more and more popular with the big corporations. It is desirable (and it is nearly always true) that he be a real mathematician, versed not only in the elements of mathematics but also in the advanced theory of the subject. The real wizards in the science of engineering are also wizards in the use of mathematics." The professor here named several wizards in engineering, explaining that they were all educated in Europe, and also commented upon their pay.

The speaker distinguished between pure and applied mathematics and also between the real mathematician and the computer, giving examples.

Continued on page three.

THE MISSOURI MINER



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FACULTY ADVISER.....DR. J. W. BARLEY

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POLICY

The basic policy of the Miner has always been to defend the school. We always try our best to publish a paper of which our school can be proud. One which will leave a favorable impression in the minds of outside readers but we also try to point out weak spots in our student make up which we feel need correcting. We do not point out these faults with the idea of giving our outside readers an idea that our school is not the best of its kind but to bring these faults before the eyes of the students. The Miner is published primarily in the interests of the school and of the students now in attendance, therefore we write our articles with them in mind more so than with the idea of catering to our exchanges.

Recently we were criticised for printing that our school had no "school spirit" but the same person tells us that we are "unique in not having any 'school spirit'". This school is not completely void of "school spirit" neither is it the only school that has little spirit.

The object of a school paper is to offer an outlet for student viewpoints and to afford a means of reaching all students with criticism which may be helpful in changing existing conditions. The intention of the Miner is to print anything of interest of the student body and to criticize anything which can be corrected by criticism, but never to slander the school in any way.

—M.S.M.—

If you want work well done, select a busy man. The other kind has no time.—Elbert Hubbard.

—M.S.M.—

STUDENT DIRECTORY

Where is our student directory? Although this is the sixth week of school we do not as yet have a directory. Are we going to have a repetition of last year's delay in the distribution of a directory?

We understand that the directory is to be published this year by the St. Pat's Board, but unless they show some signs of progress we would not be at all surprised to see some enterprising student beat them to it.

If looks like the idea of having a student organization publish a directory is a great mistake. The members of these organizations are all busy with school work, outside work, and student activities. If they were not already busy they would not be holding membership in these organizations. There is much work expended in gathering ads, compiling names and phone numbers and arranging a directory. Of course, the idea of many hands making light work is a good reason for an organization to put over this job, but also where many hands are working on a job they are likely not to all work in a way to produce results in the shortest time.

Last year it was proven that a good directory could be compiled and published in two weeks time by one student who was a "go-getter". By allowing one or two students the privilege of publishing a directory, the profit goes to one or two persons which gives these persons an incentive to work. When an organization publishes the directory no one person realizes any profit, which naturally means that the directory appears whenever

the group of students can find a convenient time to publish it. Put the job in the hands of one or two and it will be done on time.

—M.S.M.—

The tremendous increase in automobile accidents and deaths is not due to drunken drivers; it is due to drinking drivers.

ESCORT BUREAU QUOTES \$10. PRICE, OFFERS MAN OF CHOICE FOR EVENING

San Francisco (U.P.)—This Pacific Coast metropolis, known locally as "the city that knows how", will soon have a new business—designed to show it knows how to take care of the stranger, the lonely and the wallflower.

Victor H. Bule has announced establishment of the Pacific Escort Services, with offices in downtown San Francisco.

Escorts will be provided—for a price—for everything from helping aged women across dangerous street crossings to a round of the city's night clubs.

Bule has started interviewing prospective employees. Most of them are from the Employment Bureaus of Stanford University and the University of California. A few general qualifications for the male escorts have been outlined by Bule. They include an ability to talk intelligently, dance, play bridge and drink in moderation. They will be carefully instructed. They must know nothing more of a client than the client's name. They must ask no personal questions.

Beyond this point, escorts will be picked for their specialties. They will be filed under height, weight, age, complexion, nationality, religion, rearing and accomplishments. A client can ask for a tall, blonde athlete with special dancing ability, or a short brunette with a Phi Beta Kappa key and a knowledge of the lost tribes of the Incas.

Rates will be \$10 a night for an escort to night clubs or shows or \$12, if the escort is wanted after midnight.

Bule has made it plain that no escort must ever step beyond the lobby of a hotel.

Young women will be on call, too.

RED LIGHT FLASHES AND GONG RINGS IF WEAPON IS BROUGHT INTO PRISON

Joliet, Ill. (U.P.)—A red light flashed at Stateville prison and a bell sounded. Guards stepped forward hurriedly and "frisked" a chubby, innocent-looking visitor.

The men who removed the snub-nosed automatic pistol from within the fat man's clothing had taken their warning from the prison weapon detector—an electric device which unerringly spots the person attempting to enter the prison bearing concealed weapons.

The detector—\$30,000 installation is being made at Menard prison—has been used at Stateville and the old prison for more than a year.

Officials explain its workings this way:

"Any package carried by a visitor is placed on a glass-topped table. Should the package contain a gun, knife or other weapon or the smallest kind of a steel saw, there is a warning electric flash and the sound of a bell.

for guiding shopping tours at \$2 an hour, but their duties must end at sundown.

To keep his charges in line, Bule will organize a system of spies, or "operators", as he prefers to call them. They will take escorts out occasionally and tempt them on their Bule feels, will keep them on their gentlymanly behavior, then they will never know whether they are with a spy or a regular client.

Bule sees unlimited possibilities in his new business. He hopes some day to establish a national organization, with bureaus all over the country. Then an escort could see a client off on a train from San Francisco and another could meet her at her destination to arrange for taxis, baggage, hotels and other such things.

"Every visitor who appears to have no concealed weapons or tools after he or she has been searched is requested to discard any iron or steel object from his pocket. He is then directed to walk through a doorway. If he has a revolver, knife, or other forbidden object concealed, there is an electric flash and the sound of a gong as he steps through the doorway.

"A device something like a telephone receiver and attached by an insulated wire to a telephone box is then moved over the clothing of the suspected visitor. When the receiver passes over contraband metal there is another ring and a flash.

"Women visitors have been detected with concealed stiletos although they previously had been searched by a woman inspector."

—M.S.M.—

Lauro de Bosis, Italian writer and patriot, was one of the leaders in the early fight against Fascism, and met his death while distributing anti-Fascist literature from an airplane. He wrote two books telling of his struggle: "Icaro," and "The Story of My Death."

Last week these books began to come into American college libraries, the gift of a Miss Ruth Draper of New York. Except for a letter accompanying the books, excerpt: "Lauro de Bosis was an idealist, who, with a great love of life, risked death for his ideal. He has left a message, not only to his countrymen but to all youth, and it is my hope that in this translation of his play, and in the forceful document which explains his purpose, young men may read his message"—no explanation was offered.

It is not known whether "Miss Ruth Draper" is the famed stage figure.

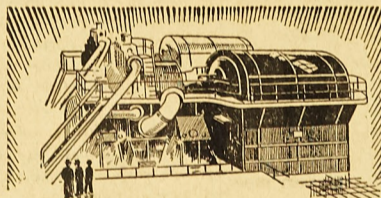
—M.S.M.—

To be popular at home is a great achievement. The man who is loved by the house cat, by the dog, by the neighbor's children, and by his own wife, is a great man, even if he has never had his name in "Who's Who."

—M.S.M.—

No matter what you task in life may be, make your trademark excellence, and let your work prove it. Success, both brilliant and happy.

G-E Campus News



BIGGER AND BETTER TURBINES

THE new 110,000-kilowatt turbine-generator, built by General Electric and recently placed in service in the River Rouge plant of the Ford Motor Company, sets several new records in turbine construction.

It is the first large unit in the world to operate at 1200 pounds pressure and at 900 Fahrenheit. Although weighing approximately 2,000,000 pounds, it occupies less than a cubic foot for each kilowatt of output. Because of its extremely high efficiency, less than a pound of coal generates a kilowatt-hour.

The high-pressure turbine and generator are mounted directly above the low-pressure unit. Superheated steam enters the upper unit at 12 pounds and 900 degrees and, after producing 55,000 kilowatts, flows directly into the low-pressure unit where it produces another 55,000 kilowatts. This is the first 1200-pound turbine in which the steam enters the low-pressure stage without reheating.

COFFIN FELLOWSHIPS

THIS fall eight young men will be carrying on advanced research in seven American universities under fellowship grants from the Charles A. Coffin Foundation. The recipients:

George E. Boyd, U. of Chicago '33. At Chicago.
Lyman R. Fink, U. of California '33. At California. Second grant of fellowship.
Alvin H. Howell, U. of Kansas '29. At M.I.T.
Russell A. Nielsen, Stanford '33. At Stanford.

Richard W. Porter, U. of Kansas '34. At Yale. Second grant.
Julian S. Schwinger, Columbia '36. At Columbia.
Chauncey Starr, R.P.I. '32. At Harvard. Second grant.
Harold G. Vogt, U. of Buffalo '31. At Harvard.

Since 1922, when the General Electric Company established the Charles A. Coffin Foundation in honor of the Company's first president, 113 fellowships have been awarded for advanced work in electricity, physics, and physical chemistry.



ELECTRIC HEAT FOR SOILLESS GARDENS

CALIFORNIA nurserymen are growing tomatoes, strawberries, and sweet peas in chemically treated water heated by electricity. The method, developed by Dr. W. F. Gericke, of the University of California, has been extended to commercial installations. Tomato plants, grown in this way, produced unusually high-quality tomatoes. The yield was large, and they matured ahead of tomatoes grown in soil.

Nourishment is provided by special chemicals dissolved in the water. Because the water temperature must be accurately maintained, a controllable heat source is required, and General Electric engineers have supplied heating cable and thermostats both for the experimental installation and for commercial installations which have followed.

GENERAL  ELECTRIC

THROUGH THE TRANSIT

By Homer Bru

Merciers started things off Friday with one of their usual Mercier dances, everyone seems to have had a fine time, they are still talking about that punch that was served, how about giving us the recipe for Pete? Pino "went to sleep" on the divan still nursing the "anesthetic". Saturday the Kappa Sigs honored their pledges with their annual pledge dance, smart party. Some pretty swell looking girls from up around the city came down, have to hand it to Tom Finley, he certainly knows how to pick em; something else, we wonder how he and that good looking sister of his could get in the same family. Bram Lewin was sporting a cute outfit.

Jimtown has opened up a new joint, several of the boys and town-people went down to help them get started off right. One of the fellows went in the Atlanta to purchase some eggs for breakfast—Before going in he was warned by one of the fellows to ask for "Ergs" instead of "eggs"

or the people would think he was drunk. When he asked the waitress for a dozen "Ergs" her jaw dropped down and her eyes almost came out of her head. Can't depend on anything these guys tell you, especially late Saturday night.

"The Ozark Girl" had some trouble early Saturday night, but one of the boys from the Triangle house came to her rescue and from all indications he handled the situation very smoothly. Mary can't you stay out of this column just one week, you're batting a thousand so far this season.

One of the old grads that's still around town, "went to sleep" in back of one of the cars in front of the Mercier House Friday night, when he woke up he was in St. Louis. Be careful whose car you sleep in Sam.

The blonde wavy haired East St. Louis Flash from the rock house seemed to be doing alright during last week end. He started off early Friday with one of the local Belles at the Mercier dance, then he had a lit-

tle rendezvous with our own little Mary, later in the same evening and continued his good work Saturday night, when her freshman date passed out at the Kappa Sigma dance. He got a late start Saturday, therefore he was forced to continue his actions until sunshine Sunday. Ah and anon when these true blue boys break down they really break. Don't forget the girl back home, Jackie.

M.S.M.

WINCHELL'S ECHO

Hello again, this is that guy Echo of bother you some more. Haven't much time to write this A. M., but anyway here goes a vain attempt.

As a whole,—or in parts—the week was quiet. That was until Friday night, when the Mercier House gave their pledges a dance. It was really a swell affair, with the music of Jimmie Gilmore making the evening one of smooth enjoyment. Pete did his best to help out the musicians, even tho he did close Bobby's music. He meant well, so the incident was passed. All in all, it was a swell party and everyone had a good time.

Got wind of the three angle boy who has apparently lost his lady love. That's the way these E. St. Louis hussys are, no different than all the rest. Anyway, he cut loose in grand style, and gave a grand account of himself. Even helped a grand account of himself. Even helped out a freshman, Saturday, so we hear.

Speaking of Saturday night, brings to mind the Kappa Sigma House dance. That was a fine event the entertainment being furnished by Eddie Polzin (brother of the Polzin most of you have heard) and his orchestra. Haven't seen so many really good looking girls for some time. Some of the boys were swinging all over the place, and from all reports (is this correct Jack) one of the freshmen got awfully tired, and just curled up and slept. That's where our flash Jack came to the rescue.

While the Kap. Sig. men were holding Rolla down, the Casino in Jimtown received a swell opening. The Duke's band pounded tunes till 12:30 or 2:30—memory's a little hazy—



Husky Gary Cooper comes to the screen again as a soldier-of-fortune involved in the intrigues of the Far East in "The General Died at Dawn," at the Rollamo Theatre, Wednesday and Thursday, Oct. 21 and 22. Beautiful Madeleine Carroll is cast opposite him as an international plotter.

while guys like Fletch and O. K. kept the cornfield-type dance floor in constant agitation. Saw quite a few of the social eight of Rolla among the merry-makers, and believe you me, they were doing their best to keep the ball rolling.

Long about the time for eggs and bacon some of the celebrants were sleepy and had to be put to bed. Well, the place is open now, and lets hope it stays open.

Here's something I almost forgot. There was a bar set up somewhere in Rolla Friday night, with neither place nor persons known. At any rate, it sure must have been fun, from the looks of the mad session Saturday morning.

Enough of the social doings, lets take a squint at the love affairs or am I incorrect in assuming that there are any?

Don Grimm has been batting pretty well—up until Sunday and now it begins to look like a closer race. The bug seems to have bitten Johnny of the Lambda Chi house, and all we can say is, "beware of Oscar". "Packy" has forsaken all others, in favor of Kirkwood, but it looks like Kirkwood forsook all Rolla for something else. Worry, Worry, what next. Here's something—the all-American has one or two walking on air, with the Mercier lad having a slight edge. Get in and pitch Joe, who knows what may happen. Stew's little romance took a jolt Sunday when the top man showed up in town.

Stellar-end-Murph seems to be all in favor of Lindenwood. Swell place that, keep digging boy. O. K. is having a grand time with a swell little swinger from down Steeltown way. That takes care of a few of the boys, we'll see if we can't catch a few of them setting around Joe's Park a la Campus. Some stuff that!

Well, times getting short, so this had better end now, before it doesn't rate a place in the rag.

Keep your nose's out of trouble—and out of the nite club, Joe Boork and Tush—or we'll get you.

So Long till then.—
Just a little addition. We see you are a man now Allan, congrate, or did you have enough of those Monday JIG.

—M.S.M.—
PROF. RANKIN ADDRESSES FRESHMEN
Continued from Page One

He also went over and illustrated the different branches of mathematics and gave their several uses.

Prof. Rankin concluded his most excellent lecture by saying that "Common sense is the real watchdog over the whole process". To prove this statement he gave two examples, one of which was proving by algebra that the weight of a flea is equal to that of an elephant and stating that common sense must throw out this ridiculous answer.

—M.S.M.—
Happy the man who early learns the width of the chasm between his desires and needs, that he may bridge it with service and thus find rest on the isle of felicity.

SENIOR TRIP METALLURGISTS

Continued from Page One

of Michigan Alumni will meet on Wednesday for lunch.

At the time of the National Metal Congress there is always held a National Metal Exposition, a mammoth show covering four acres of exhibit space in Cleveland's Auditorium. The Exposition, sometimes known as "the work laboratory" of the Metal Congress, will provide an opportunity for the students to study and compare new products, processes, and equipment being discussed in the technical sessions of the Congress.

The seniors will attend a three-hour lecture course on "X-Ray Analysis" presented by Dr. Kent R. Van Horn, Research Metallurgist of the Aluminum Company of America. This course will be given in the evenings at the Auditorium.

Work passes these doors, and at the end of the journey success comes in to crown one's efforts.—Pasteur.

—M.S.M.—

PROGRAM

ROLLAMO THEATRE

Saturday and Sunday Matinees
1:30 and 3:30 p. m.

Friday, October 16
"THE GIRL ON THE FRONT PAGE"

with Edmund Lowe and Gloria Stuart
Also
"Chokes on You", "Travelogue"
"Sacred City of Maylan Indians"
Admission 10c and 25c

Sat., Oct. 17, Matinee & Night



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

Sunday & Monday, Oct. 18-19



Sunday Matinee 10c and 25c
Nights 10c and 35c

Tuesday, Oct. 20, Bargain Night

"ISLE OF FURY"
with Humphery Bogart, Donald Woods and Margaret Lindsay
Also
"Salor's Home", "Down The Gas Trail", "Vitaphone Stage Show"
Latest Issue—"March of Time"
Admission 10c and 25c or
TWO for 10c and 35c

Wed. and Thu., Oct. 21 and 22

"THE GENERAL DIED AT DAWN"
with Gary Cooper and Madeleine Carroll
Also
"Topics of The Day"
World News Flashes
Admission, 10c and 35c

Coming Soon
"Stage Struck"
"Give Me Your Heart"
"Cain and Mabel"

MINERS

Attend Church

NEXT SUNDAY

--FOOTBALL--

"See The MINERS in Action"

OCTOBER 24th, Warrensburg Teachers
[HOMECOMING]

November 20---Cape Girardeau Teachers
2:00 P. M., Jackling Field



ADMISSION
Adults - 80c
H. S. Students - 40c

--FOOTBALL--

TECHNICAL NEWS

BY
E. L. CLARIDGE

Out of the misery, disappointment, and confusion of the greatest depression the modern world has experienced come, among other things, a growing complaint against the scientists of the world. This discontent has reached general expression in the United States, and was voiced by a certain bishop who requested that the researchers and inventors take a five year holiday in order that the world might catch up with them and readjust itself to the changed social conditions necessitated by their discoveries. The charge against the men of science seems to be that they have progressed in their discoveries with an ever increasing speed, have turned their results over to industry with no thought of their social consequences, and have done nothing to remedy the natural consequences of their contributions to science or the unnatural consequences occasioned

by unscrupulous men and corporations who have taken advantage of their discoveries to exploit the general public.

Both the heads of industry and the laborers are affected by this condition, it is argued. The manufacturers' plaint is that as soon as they have adopted a new process or installed a new machine it is out of date, for out of the inventor's or engineer's office comes a newer machine or process, twice as efficient and cheaper than the old ones; or the researcher puts a synthetic product on the market which displaces a whole industry previously quite prosperous and necessary. The scientists are blamed for the unemployment caused by their improvements. A case close to home comes to mind: A certain graduate of M.S.M. discovered a new process for extracting bauxite from its ores, especially the low grade ores. While this was quite commendable in most respects, it reduced the personnel of a certain plant from several hundred to about a score. In addition he received no great reward for this improvement.

It cannot be denied that in the main these assertions are true, but the saving fact is that most scientists, engineers, and inventors are now conscious of their error, and will take steps to palliate the condition, if for no other reason than to keep a finally-enraged people from throwing a monkey wrench into the machinery of research, and discarding it all as

worse than useless.

A heartening reply to these critics of science is the attitude of the Rust Brothers, inventors of the mechanical cotton-picker, which, if released commercially with no regard to consequences, would undoubtedly displace several million human cotton-pickers in the South, whose main livelihood is through growing cotton, thus causing inestimable miseries and untold tragedies.

They have refused to release their rights to large implement companies in spite of impressive offers, not because they wish to make all of the money from it themselves, but because they realize that their machine, if it proves as successful as tests indicate, will cause profound social problems, and they want to use the profits of the enterprise to combat these problems. The account of the development of their machine is as thrilling a success story as that of any American inventor, and as interesting as the description of any purely scientific research, but both of these aspects are overshadowed by the fact they are not following the conventional pattern of either type, neither using it to become multi-millionaires nor giving it away to commercial exploiters, but are using it as a tool in a social experiment conducted for humanitarian purposes. Such an altruistic, scientific, and Christian attitude is indeed new on the American scene!

M.S.M.

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Sing in a frat house:

"If we're studying when you enter, please wake us up."

Another fellow who's all wrapped up in his work is a tuba player.—L. A. Junior Collegian.

Editing a paper without ruffling someone's feelings is like winking at a girl in the dark—lots of exercise, but no results.

Solomon had 500 wives. That is what he thought. Actually 500 women had him, the dope.—Oredigger.

He: Please.

She: No.

He: Pretty please.

She: Positively no. I said no.

He: Aw, please ma, all the other kids are going barefooted.—Oredigger.

Nok-nok: Who's there?

Knox,

Knox who?

Knox enough he'll Landon the White House.

Barber: "Was your tie red when you came in here?"

Customer: No, it wasn't!"

Barber: "Gosh!"

Credit Given Where Known.

The farmer, on his way back to the farmhouse, looked over a tall hedge that bounded a meadow. Among the grass and wild flowers he saw a pale city chap and a bull. They stood facing each other. The bull was pawing the ground.

"Hey," said the city chap, "is this bull safe?"

"Safer than you are," said the farmer.

"Mother," she began, "what does transatlantic mean?"

"Across the ocean," replied mother.

"Then 'trans' always means across?"

"Yes, it does, always," and the mother added sternly, "If you ask me another question tonight, I shall send you to bed."

The second silence lasted quite 3 seconds. It was broken at last by a plaintive, small voice which commented, "Then I suppose transparent means a cross parent!"

FRATERNITY HIGHLIGHTS By Ruemmler

KAPPA ALPHA

Kappa Alpha, a national social fraternity was the second to be established at the Missouri School of Mines. The Beta Alpha chapter of Kappa Alpha was installed here on April 27, 1903, by members of the Alpha Kappa (University of Mo.) chapter. The chapter gradually grew through the years until at one time it was one of the strongest organizations on the campus. In the last four or five years the chapter membership has diminished greatly through loss by graduation. At the present writing there are very definite plans being formulated for the reorganization of the chapter on an active basis again.

The Kappa Alpha fraternity originated in the south, being founded at Washington College, Lexington, Virginia, now Washington and Lee University, on December 21, 1865, by James Ward Wood, Dr. William Nelson Scott, William Archibald Walsh, and Stanhope McClelland Scott. The fraternity is what might be called a strictly southern one, having no active chapters north of the Mason-Dixon line.

It has now grown into an organization with sixty-eight active chapters in its roll and an alumnae membership of approximately twenty-six thousand.

The Beta Alpha chapter has three active members at the present time. They are Roy D. Scafe, Max D. Humphries, and Warren D. White.

M.S.M.

M.S.M. ALUMNUS CONSULTING
ENGINEER OF \$60,000,000
TRIBOROUGH BRIDGE
PROJECT

The huge Triborough Bridge connecting the boroughs of Manhattan, Bronx, and Queens started by the Department of Plant and Structures of New York City in 1916, and twice brought to a halt by lack of city funds, reached its completion July 11, 1936, by the aid of many contractors and engineers, one of the more prominent being Enoch Ray Needles, graduate in Civil Engineering from the School of Mines in 1914 and receiving his Professional Degree of Civil Engineer in 1920.

This Triborough Bridge system, consisting of four bridges with a united length of 3½ miles and linked with 14 miles of connecting boulevards made to accommodate 54,800 vehicles daily, is not only a solution to the present New York traffic problem, but is also of that of years to come. The best available engineers, architects, have envisioned the needs of pleasure, business, and industrial vehicles for over 25 years in the future. A saving in time of 30 minutes is now made in crossing the longest run. Since July 11 the maximum weekday volume has been in excess of 32,000 motor cars and trucks, not including sight-seeing cars.

This engineering feat, accomplished by the master engineers of this day will benefit millions of people. The traffic is stimulated within a radius of 50 miles or more beyond the areas immediately inter-linked.

Every true Miner should be proud of this Alumnus' participation in this project, and the example should prove an incentive to every M.S.M. student.

M.S.M.

A man cannot leave his wisdom or his experience to his heirs.

See ALLISON For a
Complete Line of Jewelry
Elgin, Waltham, Hamilton and
Bulova Watches

FOLLOWILL DRUG CO.
Student Desk Lamps 98c to \$1.59

Harvard students who sent a fake bomb to Gov. Curley of Massachusetts and pinned a red flag, complete with hammer and sickle, on the flagpole of the Supreme Court building in Washington may be severely disciplined by the college.

Although it was thought likely that Leonard Farmer, freshman who sent a bomb made of candy, excelsior, and an alarm clock to Massachusetts' chief executive would get off lightly, student editors of the Lampoon, humor magazine, were in line for rough treatment by the dean's office for the part they allegedly played in the red flag incident.

Severity of the disciplinary measures taken against them, it was said, would depend upon the protests of Federal authorities in M.S.M.

There's almost a limit to everything. Some people are making such thorough preparations for rainy days that they aren't enjoying today's sunshine.

Put in sixty per cent of your time tendin' to your own business, and forty percent lettin' other people's alone and you'll get into mighty little trouble.

PLATE LUNCH

Choice of Meats

3 Vegetables

Salad

Dessert

Drink

25 CENTS

Nesbit's Cafe

\$5.50 Meal Tickets for \$5.00

Rolla State Bank

In The Judgment of Fuel Economy

CLEANLINESS should be considered; economy is important; convenience should play a part . . . but comfort . . . the comfort that only HEAT can bring . . . should be uppermost in your mind when you order winter fuel! Ziegler considers all these factors . . . and Ozark Supply Co. recommends only the finest of fuels!



A FRANKLIN COUNTY COAL

Decide now to cut your fuel bill.
Phone your order today.

OZARK SUPPLY CO.

DRINK

FALSTAFF BEER

The Choicest Product

OF THE BREWER'S ART

Rolla Wholesale Grocery Co.

DISTRIBUTORS



MAZDA LAMPS

For Your Daily Needs,
All the Sizes You Want in One Assortment.

Fill Up Your Empty Sockets and
Then Keep an Extra Carton for
Emergency,



Special Household Assortment:

2--100 Watt Lamps

2-- 60 Watt Lamps

2-- 50 Watt Lamps

ONLY \$1.00

Mo. General Utilities Co.

or Your Mazda Dealer

TECHNICAL COMMITTEES NAMED BY EDUCATIONAL DIVISION HEAD

Announcement is made by Professor S. S. Steinberg, of the University of Maryland, President of the Educational Division of the American Road Builders' Association of the appointment of Technical Committees to study highway topics, many of which have never previously been considered by engineering educators. The result of these studies should be of great value to the highway industry and profession.

Reports by each of these committees will be presented at the Convention to be held in New Orleans at the week of next January 11th. The members of the Division, which was newly organized last year, consists of a faculty representative from each engineering college in the United States, Canada, and the possessions.

A list of the committees of the Educational Division, their membership and objectives of each group follows:

Committee on Teaching of Highway Engineering

Chairman, Prof. M. W. Furr, Kansas State College; Prof. S. L. Conner,

University of Arizona; Prof. R. L. Sumwalt, University of Arizona; Prof. D. V. Terrell, University of Kentucky.

Objective: To study the content of highway engineering courses; to determine the essential topics that should be included in curricula of varying credit hours; to study the best methods and practices in teaching of highway laboratory courses, including equipment and facilities necessary and desirable, and other allied topics.

Committee on Graduate Work in Highway Engineering

Chairman, Prof. Albert Haertlein, Harvard University; Prof. N. W. Dougherty, University of Tennessee; Prof. H. F. Janda, University of Wisconsin; Prof. H. S. Phelps, State College of Washington; Prof. N. E. Wolfard, University of Oklahoma.

Objective: To compile data on graduate work in highway engineering being conducted in the colleges; to prepare lists of topics on which highway research could be conducted by graduate students in engineering colleges; to determine the extent and the conditions under which graduate work in colleges is being conducted in cooperation with outside agencies,

Tufts College; Prof. J. C. Park, University of West Virginia; Prof. C. B. Breed, Mass. Inst. of Technology; Prof. H. S. Carter, South Dakota State College; Prof. J. A. Oakey, Columbia University; Prof. W. C. Taylor, Union College, Schenectady, N. Y.

Committee on Highway Economics

Chairman, Prof. W. S. Downs, University of West Virginia; Prof. C. B. Breed, Mass. Inst. of Technology; Prof. H. S. Carter, South Dakota State College; Prof. J. A. Oakey, Columbia University; Prof. W. C. Taylor, Union College, Schenectady, N. Y.

Objective: To assemble and correlate existing data on highway economics; to outline topics, with references, that might be taught in undergraduate and graduate courses in highway engineering; to promote studies and researches in highway economics by undergraduate and graduate students, and other allied topics.

Committee on Highway Planning

Chairman, Prof. J. E. Kaulfuss, Pennsylvania State College; Prof. C. A. Baumhann, Alabama Polytechnic Institute; Prof. J. Butler, Missouri School of Mines; Prof. R. L. Downing, University of Colorado; Prof. Burdette Glenn, Oregon State Agricultural College.

Objective: To collect information on methods and procedure followed

in various highway planning surveys conducted by states, counties and cities, with and without cooperation of other agencies; to present significant results of such surveys; to indicate the possibilities of utilizing these data for teaching purposes, and other allied topics.

Committee on Highway Conferences and Short Courses

Chairman, Prof. Ben H. Petty, Purdue University; Prof. L. D. Conkling, Montana State College; Prof. J. H. Lucas, Georgia School of Technology; Prof. R. A. Moyer, Iowa State College; Prof. J. S. Worley, University of Michigan.

Objective: To determine the types, methods, topics and other details of conducting conferences and short courses in highway engineering in the various colleges; including special conferences as well as courses for road inspectors, bridge inspectors, county commissioners, county superintendents, and other allied topics.

Committee on Cooperation Between Educators and Road Builders

Chairman, Prof. F. C. Lang, University of Minnesota; Prof. H. Walter Leavitt, University of Maine; Prof. W. W. Michael, Calif. Inst. of

Technology; Prof. R. C. Sloane, Ohio State University; Prof. Harry Tucker, North Carolina State College.

Objective: To collect information on various forms of cooperation between engineering colleges and those actively engaged in road building, such as state highway departments, contractors, equipment and material manufacturers and others; including inspection trips, lectures, cooperation in teaching, employment of engineering graduates, and other allied topics.

—M.S.M.—

Somebody has done it again:

This time it is Hamline University that has been polled for indications of preferences between the sexes, and here are the results:

The men like co-eds with intelligence, vitality, and sense of humor, and they think most women's hats are terrible.

The co-eds want intelligence and good disposition, don't care so much about good looks, and like well-dressed, conservative clothes.

—M.S.M.—

The friends thou hast, and their adoption tried, grapple them to thy soul with hoops of steel.—Shakespeare.

Lucky for You

—It's a Light Smoke!



A LIGHT SMOKE LEAVES A CLEAN TASTE

A clean taste—a clear throat—what a joy when you wake up in the morning! You'll be thankful that last evening you chose a light smoke—Luckies.

To feel good after smoking —

It's not just the pleasure a fellow gets out of smoking Lucky Strikes... it's *feeling good after smoking!* Fresh as a daisy. A clean taste in your mouth. And when you start singing in your bath—your voice clear as a bell! That's the great thing about a *light smoke*. Lucky Strikes—being made from the finest center-leaf tobaccos—*taste good*. And because they're a *light smoke*, you feel good smoking them. And *after* smoking them, too!

★ ★ NEWS FLASH! ★ ★

"Sweepstakes" bring pleasure to war veterans

From a veterans' home in Legion, Texas, a number of entries all in the same handwriting come in each week. Of course we checked up to make sure that the entries conformed to the rules, and one of the men explained: "Most of the boys can't get around—but I do and so I fill out their cards for them."

We're glad to say that the boys have been pretty good pickers, too.

Have you entered yet? Have you won your delicious Lucky Strikes? Tune in "Your Hit Parade"—Wednesday and Saturday evenings. Listen, judge, and compare the tunes—then try Your Lucky Strike "Sweepstakes." And if you're not already smoking Luckies, buy a pack today and try them, too. Maybe you've been missing something. You'll appreciate the advantages of Luckies—a Light Smoke of rich, ripe-bodied tobacco.

Luckies — a light smoke

OF RICH, RIPE-BODIED TOBACCO — "IT'S TOASTED"

HERE AND THERE

It may interest you to know that "Stretch" Murphy, '34, and "Jake" Barrow, '36, were in Rolla for a few hours last Thursday. "Jake" and "Stretch" are both working for F. G. Hays and Co., Road Contractors. At present Barrow is in Salesbury, Mo., which is 20 miles west of Moberly.

Katherine Brockman, who attended M.S.M. last year is now living in Springfield, Mo., and attending Drury College. She was just recently pledged to Delta Delta Delta Sorority there.

Miss Mary Smith and Bob Buck were married in Rolla, Oct. 4. Buck graduated from M.S.M. in '35. The Miner wishes the couple much happiness.

Virginia Hell is now working in the U. S. G. S. office. Virginia attended M.S.M. last year but changed into an office employee this year. We are glad to see Virginia around the campus this year.

Nye Adams and Miss Helen Phillips were married last Sunday. Mrs. Adams is from Lancaster, Wis.

Helen Elizabeth Dake and Virginia Hell attended a dance given by the York House at Westminster College, Fulton, last Saturday. They were accompanied by Charles G. Drake and Kenneth Tuckett.

Miss Hackman and Mr. Howard are attending the Missouri Library Association Convention in Popular Bluff. The convention which will close this evening has been in session since Monday. During the convention Mr. Howard will deliver a paper entitled "Friends of the Library and the Citizens Library Movement." Mr. Howard is at present vice-president of the Missouri Library Association.

Edgar Thompson has been confined at the Rolla Hospital since October 5th, when Dr. McFarland operated upon Ed for appendicitis. Ed is a sophomore and a graduate of Rolla

JIM PIRTLE

Watchmaker and Jeweler
Fine Repair Work a Specialty
40 Years Experience
30 Years in Rolla

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

STETSON
HATS

THIS NEW STETSON WITH
WELL-EDGE SETS THE STYLE-PACE
FOR FALL. ITS WIDER BRIM
SHOULD BE WORN
SNAPPED DOWN.
STETSONS FOR FALL.

\$5.00 and \$6.00
Schumans Clothes
BUSY BEE OFFICE

high school. We are happy to hear that he is getting along fine and will probably be back in school by Nov. first.

Springfield Leader.

Springfield, Mo., Oct. 10.—Announcement has just been received here of the marriage of Russell Smith daughter of Mrs. Joseph Laten Cook, to Karl Anson Allebach, son of Mr. and Mrs. Newton V. Allebach, 787 South Avenue. The young people were married Thursday, October 1, in Miami, Fla.

Mr. and Mrs. Allebach will be "at home" after the fifteenth at Matahambre, Pinar del Rio, Cuba—only a short distance from Havana—where Karl is with a mining company. . . Both young people have a host of friends here; both have attended Springfield schools, and Karl later studied at the Missouri School of Mines at Rolla. Both Mr. and Mrs. Allebach are members of well known pioneer families here. . . Mr. Allebach has been in Cuba for the past two years or so; Russell has been in New York City for some time until just recently. She visited in Springfield not many weeks ago and went to St. Louis from here, to spend some time with her sister and brother-in-law, Mr. and Mrs. Paul (Louise "Weedy" Smith) Phillips, and their grandmother, Mrs. Lucy Russell Crenshaw, a former long-time and well-known Springfieldian.

Congratulations to Walt Jones on his marriage to Iris Oakes. They were married at Vienna, Mo., May 2, 1936. And this is the first word we've heard about it.

Jones graduated last spring in Civil Engineering. He was a member of Kappa Sigma fraternity.

Mrs. Jones will leave Rolla, Oct. 19th, to join her husband in Albuquerque, N. M.

The Miner board takes this opportunity to wish the both of you the best of luck.

—M.S.M.—

M. S. M. ALUMNUS BROADCASTS
OVER RADIO

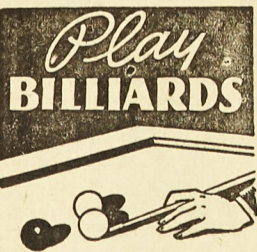
Paul Richardson Cook, who returned last winter after four years spent in Russia as expert in gold metallurgy for the Soviet Government, is making radio broadcast talks regarding his experience in Russia over Station WMCA out of New York City; his first talk was at 10:00 p. m., October 11, and future programs will be broadcast from this station at different intervals. Cook graduated from M.S.M. in 1907 and received a Mining Engineer Degree in 1917.

—M.S.M.—

We should never remember the benefits we have conferred, nor forget the favors received.

—M.S.M.—

Few of us get anything without working for it.



A GAME OF SKILL

Spend the fall and winter evenings in the realm of good fellowship and clean sport. Play billiards for recreation. Our tables are the finest money can buy, and we keep them in the most excellent condition.

TOBACCO PIPES
CIGARETTES
Standard Brands 2 for 25c
BEER

SMITH'S
817 PINE STREET

COLLEGIATE BASEBALLERS
Pros Want Collegians

By C. Guy Lee

"Baseball wants young college men" stated Ford Frick, president of the National League of Professional Baseball, "and is willing to pay good salaries to college graduates entering the game." About forty per cent of the players in organized baseball are college men, which amount is a considerable gain over a few years ago.

Besides the players, scouts, club secretaries, traveling secretaries, publicity men, sport writers, and office men are all paid well, and a well trained mind is what the officials are looking for. Young college men have neglected this great field that is eager to give them a start.

It may be because there is not enough pomp or ceremony; the modern office building has more attractions; but do those office jobs pay, do they offer a young man any real independence? Possibly they do—on \$60 a month.

Baseball is a business with the largest following of any sport in the world. It takes a boy and instills within him a spirit of good sportsmanship, builds a sound body, and develops the mind as well. It offers him the chance to travel, to meet new people, new situations, to broaden out, and as a man, a job with a salary that any young college man can live on as he should.

Los Angeles Junior Collegian

—M.S.M.—

RISKLESS AVIATION
Midget Aviation Prospers

By Nic Rose

One of the most interesting hobbies of a mechanical nature is that of building and flying model airplanes. This pastime had its beginning in 1927 with Lindbergh's famous flight across the Atlantic. It reached its peak in 1931, then suffered a lapse because of the depression and a general inactivity in the aviation industry itself.

Up to this time the source of power for these small planes, usually made of balsa wood and covered with Japanese tissue paper, was rubber bands. This source of power, though efficient, had one drawback and that was short duration. It was impossible to build any model that weighed more than three or four ounces, because the heavier the plane the more power was required to propel it.

Even with this rather inadequate source of power some very remarkable flights have been made. The average well designed rubber band model is capable of making sustained flights of four and five minutes.

The year 1933 saw the acceptable perfection of the midget two cycle gasoline engine. Then began the renaissance of midget aviation. This motor weighed, with coil, condenser, and gas tank, approximately 16 ounces and delivered the remarkable amount of one-fifth horse power. It sold for \$23.

The models equipped with gasoline engines weigh from three to four pounds. Their construction is of brass wood and they are covered with silk. The landing gear is made of seamless tubing and equipped with pneumatic tires. Their performance is amazing, they take off, climb, maintain level flight, come to the earth for the landing as though a skilled pilot were at the controls. Competitive contests are being held everywhere.

Los Angeles Junior Collegian

—M.S.M.—

THE BRAIN TEASER

Last week we ran an easy teaser for the benefit of the freshmen who are not well versed in higher mathematics. We have about four answers to the question of what were the denominations of the six bills used to total \$63. Here's the answers: 50, 5, 5, 1, 1, 1; 50, 5, 2, 2, 2, 2; 20, 20, 1, 1, 1; 20, 20, 10, 10, 2, 1.

A fish's head is 6 inches long. Its tail is as long as its head, plus half as long as its body. Its body is as long as its head and its tail. How long is the fish?

That one should at least keep fisherman Donnelly busy for awhile.



Martha Raye and Bob "Bazooko" Burns, starred in "The Big Broadcast of 1937," and as seen by the camera —M.S.M.—

LEHIGH'S PRESIDENT
WILL TEACH COURSE

Dr. C. C. Williams Is First of University's Head Since 1879 to Take a Class

Bethlehem, Pa., Oct. 3.—For the first time in years, a president of Lehigh University entered the classroom as a teacher with the opening of the college term.

On the principle that a university has no more important function than teaching, Dr. Clement C. Williams, president since October, 1935, will teach parts of a graduate course in structural foundations in the civil engineering department. He is an authority in this field, with numerous researches and publications on foundations to his credit. He was formerly head of the department of civil engineering at the University of Illinois and later dean of the College of Engineering at the University of Iowa.

The last Lehigh president to teach classes was Dr. John M. Leavitt, in office from 1875-79. He taught courses in psychology and Christian evidences.

In carrying out his belief that scholars of high attainment, who happen to be in the administrative positions, when practicable, should give of their time and talent to the classroom, Dr. Williams also announces that Dr. C. M. McConn, dean of the university, and Dr. Wray H. Congdon, director of admissions, will cooperate in courses this year in the department of education.

—M.S.M.—

Another reason why a man loves his dog is because the dog is the only one around the house who is not finding fault with him.

—M.S.M.—

Discontent, the growing pain of humanity; the mother of invention, a spur to struggle for those things of contentment.

—M.S.M.—

Friendship by its very nature consists in loving, rather than it being loved. In other words, friendship consists in being a friend, not in having a friend.

—M.S.M.—

Good judgment must be acquired through experience.

—M.S.M.—

About the only exercise some folks take is jumping at conclusions.

ACTUARIAL MATHEMATICIAN
EXAMINATIONS ANNOUNCED

The United States Civil Service Commission has announced open competitive examinations for assistant actuarial mathematician, \$2,600 a year, and junior actuarial mathematician, \$2,000 a year, in the Railroad Retirement Board, and the Social Security Board.

Applicants must have had certain specified education experience.

All States except Massachusetts, South Dakota, Nebraska, Washington, Minnesota, Vermont, Colorado, Iowa, Virginia, Maryland, and the District of Columbia have received less than their quota of appointments in the apportioned departmental service at Washington, D. C.

Full information may be obtained from C. D. Hazlewood, secretary of the U. S. Civil Service Board of Examiners, at the Rolla post office.

—M.S.M.—

To go about your work with pleasure, to greet others with a word of encouragement, to be happy in the present confident in the future; this is to have achieved some measure of success in living.—Edwin O. Grover.

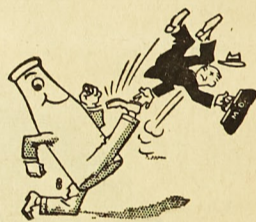
—M.S.M.—

The standards of honor, quality, strength and service lead the world of business forward to greater efficiency and sounder development. They make for progress and permanent success.—Elwood Rice.

CALL 163

THE FARMERS
EXCHANGE

FOR POULTRY, EGGS AND
GROCERIES



**A Quart a Day
Keeps the Doctor
Away!**

There's an easy answer. Build up resistance to winter ills. Give the whole family the energy they need to see them through.

It's a simple solution . . . and one that your family will enjoy, for you'll find dozens of delicious ways to serve Tucker's Milk.

Try it tonight, and plan on serving it often all through the winter. Make your motto a quart a day . . . for every member of the family!

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MINER SPORTS

MINERS TO PLAY AT MARYVILLE FRIDAY

WARRENSBURG MULES ON TOP IN M.I.A.A. TITLE RACE

FIRST CONFERENCE GAME FOR BOTH TEAMS, BEARCATS FAVORED

By Jimmie Evans
Missouri Miner Sports Writer

Next Friday the Missouri Miners open their second season in the M. I. A. A. conference with their game against the Northwest Missouri Teachers at Maryville. Before entering the conference the Miners had little trouble in beating Maryville whenever the two teams clashed, but last season when there was more than just winning a game to the annual contest, Maryville stepped on the Miners to the tune of 7 to 0 on a field ankle deep in water.

However that is past history and this year a practically new Miner squad hopes to avenge themselves when they make the trip up into the flat country of north Missouri. So far this season Maryville has looked quite promising. In their three pre-conference games, they have tripped up all their opponents as far as scoring goes: They beat Nebraska Teachers in their first game; the next week they won from St. Viator 13 to 6 in spite of being outplayed; and last week they won from Central College 20 to 0. So probably their large squad of sixty men is doing them some good. They lost through graduation last spring only one man, Luke Palumbo, all state center.

Thus they have practically intact a team which nearly gave the conference a jolt last year. To fill Palumbo's place they have a letterman from their 1934 squad, Richard's, a 213 pounder. There will be some difference in the weight between Richards and Red Middaugh, Miner center, who tips the scales at 165 pounds.

The weight in the line will be fairly evenly matched for the Maryville line averages 186 pounds, while Coach Grant's forward wall averages 183. However is the backfield the Bearcats out-weight the Miners thirteen pounds per man.

Joe Spafford, first string Miner center who injured his arm in the St. Louis University game will be unable to play, however, Mel Nickel veteran quarterback, who received a leg injury in the same game, may see some service. At any rate Walter Koziatek midget quarterback will do the majority of the signal calling for the boys from Rolla. From now on, since Oscar Holman has quit football, the full back job will be held down by another freshman, Phillip Axthelm, who started last week's game against McKendree, and turned in a nice job for the Miners. In all, there will be a total of three first year men who will be in the starting line up for Coach Grant, besides a score on the side line benches, ready for a summons.

For three seasons the Bearcats have had a passing combination Rulon to Zuchowski which has been touted as the best in the conference and this season they seem to be going places again and are partly responsible for Maryville's three victories. In other years these two have been rather unsuccessful against the Engineers and it is pos-

sible they can be bottled up again this year like the Miners did with Drone and Shea.

The long trip which the Miners have to make to get to Maryville will be somewhat in the Bearcats favor. To offset this Coach Grant is planning on leaving Thursday to give the Miner squad of twenty-nine men ample rest before the game.

Probable Starting Line Up and Weights

Miners	Pos.	Bearcats
Folsom 185	L.E. Zuchowski 164	
Prough 195	L.T. Molitoris 206	
Mattai 210	L.G. M. Rogers 176	
Middaugh 165	C. Richards 213	
Wilkey 170	R.G. Rouse 174	
Appleyard (C) 195	R.T. Claybough 192	
Murphy 163	R.E. Hicks 179	
Koziatek 140	Q.B. Rulon 161	
Kiesler 146	L.H. Wt Moore 165	
Loveridge 150	R.H. Wil Moore 165	
Axthelm 170	F.B. Yates 174	
	M.S.M.	

Cross Country?

In sports, as in almost every other field of human activity, men foster that type of athletics which gives vent to their particular kind of energy usually the game or activity which gives them the greatest return in pleasure or in satisfaction, born of victory in competition, for the time and the physical exertion they allot to it. The man of massive frame and muscle plays football; the slim spirited one chooses track; and the alert, nimble, shifty one basketball. To these sports, wisely or unwisely, they attribute all the benefits and fruits of physical exertion. It is not uncommon to meet a football man who worships the game even though his knees are cracked and his nose injured, who to his last living breath will claim with the fatalism of an Oriental that his injuries were ordained by the Almighty, that whether he had spent his time on the football field or on a peaceful streetcorner, his knees would have been cracked and his nose smashed. Enthusiasm, so necessary as an impetus to living, is seldom found shrouded in reason.

Quite different from football is the sport of cross-country. It is the season-mate of football and in many respects is as hard a taskmaster as the sport of the tumbling pigskin. Cross-country demands of its participants

NOTICE

A play-by-play report of the Miner-Maryville game Friday night will be given in the gymnasium Friday starting at 7:45 o'clock.

All students, fans, and townspeople are invited to hear the report which will come by a direct Western Union wire and announced over a P. A. System.

Luman Long, editor of the Rolla New Era, will be at the "mike", while B. C. Compton will do the reporting from the Bearcat field.

A hard race of three to five miles, up hill and down, along paved highways and over broken fields. It is a sport of fine judgement, of endurance; it is a study of economy in breath and brawn and time; it is the ultimate test of the supremacy of the mind, which in a race unceasingly shouts, "On! on!" over the body, which in every strain and ache pleads, "Stop! stop!!". Cross-country in competition is a cruel sport.

Rarely does the cross-country man laud his sport in the light that the football man does his. Paradoxical as it may seem, the representative cross-country runner dislikes the sport in competition. Seldom does he prepare for a race without a mild shudder at the thought of what lies ahead of him, and in most cases it is only the human taste for rivalry that

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DEFEATS SPRINGFIELD IN FIRST CONFERENCE BATTLE, 13 TO 0

By B. C. Compton
Missouri Miner Staff Writer

SPRINGFIELD, MO., October 13.—The Warrensburg Mules planted a hefty kick on the Springfield Bears here last Friday night, 13 to 0, to open the annual M. I. A. A. warfare which will sound and resound around the state until Thanksgiving day.

And with that kick went the blasting of title hopes for Coach Andy McDonald's Bears—the team that has been called the "dark horse of the loop." A stalwart Springfield line, strong on the right side and pitifully weak on the left, was no match for the gallant band of Mules backs, who with their dazzling display of cut-backs and spinners took the Bear goal line by storm, and would have scored twice more but for fumbles.

A light rain which fell intermittently during the battle did not hinder the backs as much as the fans, of which they were 1500, expected. Only four fumbles were recorded.

John Brown, the Mules ace half-back put his mates in scoring position in the first quarter by two 15 yard runs. Van Hammer started the fireworks when he intercepted a Bear pass on the 31 yard stripe. Brown then reeled off his long gallops to the 3 yard marker, from where little Harry Bapst, substitute Mule half, carried the ball over for the counter. Hammer placekicked the extra point.

Brown scored the other marker in the last quarter with but two minutes of play left in the game. He and Bapst, with the help of Hammer, had

brought the ball down to the Bears 3 yard stripe.

The Mules passed up a chance to score in the first few minutes of the game when a pass from center went wild, Wakeman fumbled, and Springfield recovered on their own 2 yard line.

Neither teams were impressive in their debuts, old man weather holding down the fancy plays to a minimum until the last period when the Mules opened up with crossbucks, cutbacks, reverses and spinners.

Next Friday night the Mules play host to Cape Girardeau at Warrensburg, while Springfield travels to Kirksville to meet the Bulldogs.

Maryville Wins

Playing the old "razzle-dazzle" football which delights the football fans, Maryville came through with their third straight victory of the season by trimming Central College at Fayette, 20 to 0.

The entire game was played in Central territory but an improved Central defense stopped all drives in the first half.

The Teachers turned to passes in the second half to take the ball to the 7-yard line from where an end run brought a touchdown. Passes, mixed with running plays, produced another touchdown early in the third period.

The scoring thrill came in the final period. Walter Moore, Maryville halfback, placed three punts out of bounds, all within the Central 5-yard line. He then took a punt from behind the Central goal on the 35 yard line, reversed the field and ran behind almost perfect interference across the goal line untouched.

The Bearcats play host to the Miners Friday night.

Third in a Row

Cape Girardeau dropped their third game in a row to a bunch of aerial artists from Illinois College of Jacksonville, 12 to 0.

Illinois counted both touchdowns in the second quarter on passes fired by Sam Mangler, halfback. His accurate flips also put his team in the scoring zone each time. Captain Ray Smith received a forward toss for the first counter and then Donat concluded a lateral, Mangler to Stuehr to Donat, for the other.

Illinois made nine first downs to Cape's six. The Missourians' one promising drive ended with a fumble.

Continued on back page



NICKEL

HERE I AM!

HAS PLAYED IN EVERY GAME IN 3 YEARS—EARNED JOB BECAUSE OF HIS SLAM-BANG STYLE OF PILING INTO OPPONENTS.

WEIGHTS 170 POUNDS

A DRAFTSMAN DURING THE SUMMER TRACK TEAM—MAKES SAVAGE TACKLES IN FOOTBALL IS GOOD PASS RECEIVER AND CONSISTENT PLAYER

JOE MURPHY

END MISSOURI SCHOOL OF MINES

SMART STUDENT—RANKS AMONG TOP SCHOLASTICALLY IN FIRST TWO YEARS—JUNIOR NOW—SHOULD RATE ALL CONFERENCE THIS YEAR AND NEXT

SCOTT'S--The MINER'S CO-OP and BOOK EXCHANGE

SCOTT BLDG., 8TH & PINE

ON CROSS COUNTRY

Continued from page seven
overcomes the reluctance with which he views the pending struggle. Once the race has begun, the conscious mind turns to the task of subjugating the body to its commands, and he race, as a race, is relegated to the mystic chamber of the subconscious mind.

Why a man should choose a sport which offers him competition to which he cannot look with any peace of mind is not as puzzling as it may seem. The Cross-country man is primarily a track man; he likes to run, not madly, not straining the extreme fibres of his arms and legs, but smoothly and with rhythmical stride. Cross-country offers him opportunity. Cross-country is his refuge from the agonizing monotony of the dirt track. The enthusiasm he finds impossible to show for the

sporting competition, he shows for the pleasure of the leisurely run through the country side.

Cross-country, without its cruel competition and its harsh demands on the mind and body, is a sport deserving much praise. The Cross-country that attracts runners is not a sport of pointless exertion. It is an easy run along an interesting farm road; it is a walk among the scrub oaks of these Missouri hills; it is a rest on the hillside in the shade of a noble tree, where one may flatten his back against the warm earth, fling his arms out into the parched grass, and relax his eyes in the infinity of the heavens. This is the true Cross-country!

As a sport for the conscientious student Cross-country has no equal. It affords the incentive to get away from the usual haunts of study, to carry the problems of the day out

into the open fields, there, either to put them aside in favor of fascinating pattern of a passing cloud or, with the aid of the sympathetic silence of the open fields, to delve more deeply into them. What has fled the mind in the presence of references and library stacks may be caught in the presence of scrub oak or a stray cow or a field of stubble. He who seeks eye-rest will find it in the infinite skies; and he who would have mind-rest will discover it in the harmonies of trees and clouds. For ages nature has been the arch enemy of mental and physical fatigue.

It is the ridiculous opinion of some that the mind of the engineer is open only to mathematics, to gears and blueprints, to boilers, precision instruments and design coefficients; that the sunset, the woodland path and a fine tree are to him as they say, are foreign to the make-up of

the engineer who to be recognized, must be rough and tough and generally uncouth. The fallacy of this point of view is made evident by the testimonies of prominent men of science, who have found inspiration and the keys to some of their most profound problems in the manifestations of nature. If the engineer is capable of religion, he is also capable of finding pleasure and rest in nature, which, according to one philosophy, is religion; and therefore he is capable of appreciating that which Cross-country holds out to him.

Alfred F. Bochenek

WARRENSBURG TOPS M. I. A. A.
Continued from page seven

ble on the visitors 25 yard line.

Kirkville Wins

The Bulldogs, winner of the M. I. A. A. the last four years, won their second game of the season from

CRUDE HUMOR

"It says here they have found a sheep in the Himalaya Mountains that can run forty miles an hour."

"Well, it would take a lamb like that to follow Mary nowadays."

Little Mary accompanied her aunt to the beauty shop, and was much interested in everything.

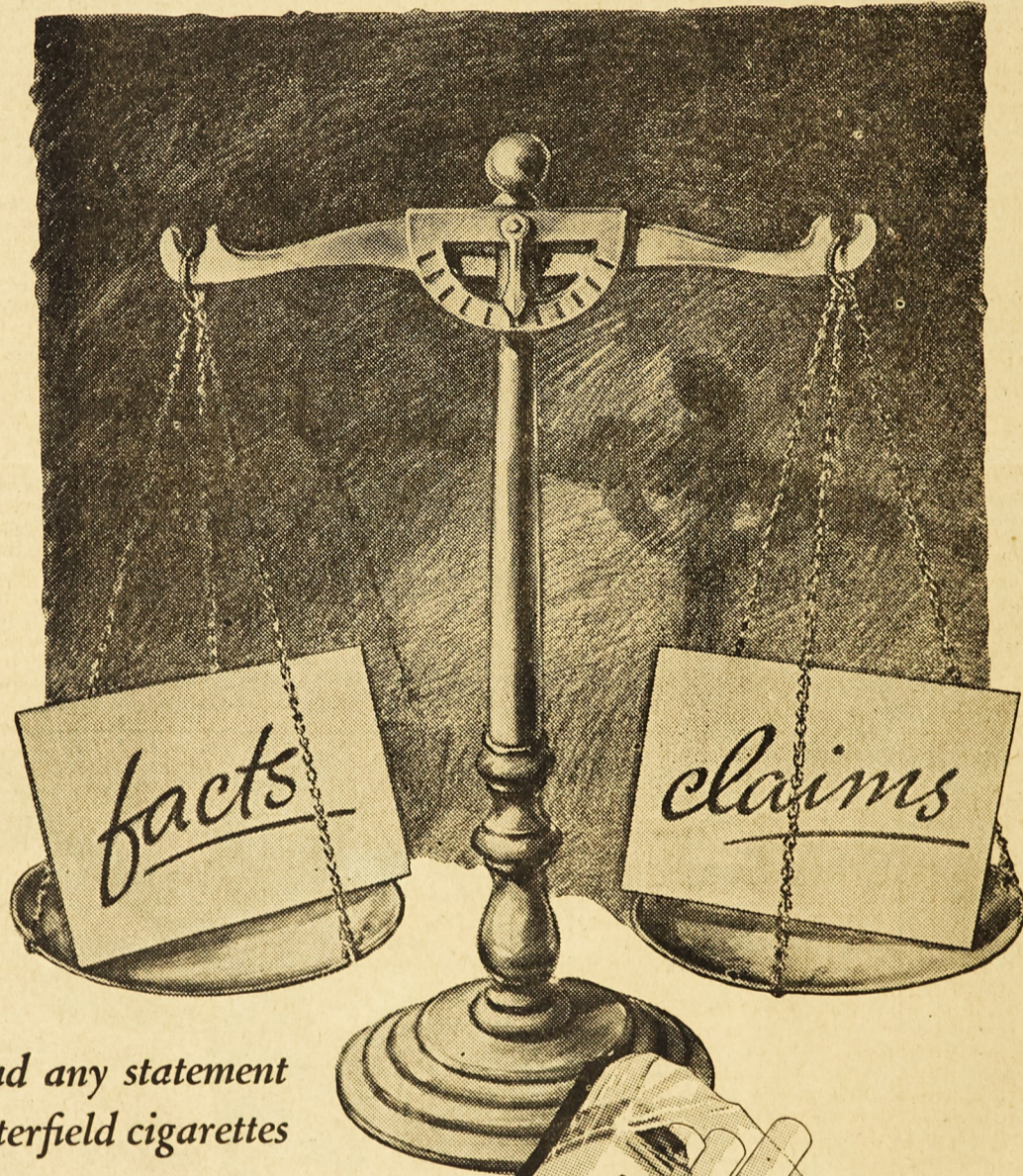
"Well, Mary," asked her mother upon her return, "what did you see this afternoon?"

"I saw Aunt Jane getting her fingers sharpened," said Mary.

"Your husband is sulking again. What's wrong this time?"

"Oh, it's just because I used his silly old tennis racket to strain the potatoes."

Pittsburgh, Kansas, Teachers Saturday 14 to 0.



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