



03 Nov 1937

## The Missouri Miner, November 03, 1937

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# THE MISSOURI MINER

MISSOURI SCHOOL OF

MINES & METALLURGY

Z385

VOLUME XXIV

ROLLA, MO., WEDNESDAY, NOVEMBER 3, 1937

NUMBER 8

## Dr. Bardsley Honored By National Society

### Elected Vice-President of National Society of Professional Engineers, Also Was Organization Secretary For Missouri Group

Dr. C. E. Bardsley has been elected to the office of vice-president of the National Society of Professional Engineers, according to an announcement from Willard S. Conlon, executive secretary of the organization in Washington, D. C.

The National Society of Professional Engineers was organized to help improve the status of the professional engineers of the United States, especially with reference to the passage of state registration laws for engineers, and also welfare and safety laws with reference to engineering projects. It sponsors the organization of autonomous state professional societies, and Dr. Bardsley served as the organization secretary for the Missouri Society

of Professional Engineers which was set up at a meeting in Rolla last January, the organization being perfected at a meeting in Jefferson City, July 10, 1937. Already over 300 professional engineers in Missouri are enrolled in the state organization.

M.S.M.

### Triangle Give Halloween Dance

Triangle Fraternity held its annual pledge dance on October 29. A large crowd attended and enjoyed the music furnished by Jimmie Gilmore and his orchestra. The house was gaily decorated in keeping with the Halloween season. A huge winking jack-o-lantern predominated a background of witches and black cats. Unique dance programs suitable for the occasion were used. The honored pledges were D. L. Hart, C. C. Palmer, R. W. Spargur, and R. A. Webb. Chaperones for the dance were Prof. and Mrs. H. R. Hanley and Prof. and Mrs. J. S. Cullison.

M.S.M.

### Sigma Pi Holds Costume Dance For Pledges

Bringing the season's pledge dances to a fitting climax, Alpha Iota Chapter of Sigma Pi held a dance in honor of its pledges last Saturday night at its chapter house. Over 125 people danced in the Halloween atmosphere of novel and varied costumes and elaborate decorations, doing honor to Dick Weaver, Wilsey Cadwell, Thurman Thomas, Hugh Wilson, Risher Hall, Clint Richardson, Al Krodinger and John O'Neil.

The front of the house was lighted colorfully by red, green and blue floodlights, the entrance was appropriately flanked with corn shocks. The entire first floor was done in yellow and black crepe streamers, corn shucks, and beautiful autumn leaves. Over 200 balloons with skeletons and witches painted upon them hung throughout the house, adding a distinctive touch to the decorations.

As the guests, dressed as mechanical men, apache dancers, waiters, thugs, cats, explorers, sheriffs, baseball players, and Japanese noblemen, entered the door each was presented with a mask, a cardboard number and a program with numbers instead of names upon it. This new and different type of program was immediately popular and furnished a great deal of enjoyment to all present.

The fine music of Jimmie Gilmore's orchestra, occasionally interspersed by a loud "pop" as someone touched a cigarette to a bal-

### Independents Dance Saturday Night

The Independents are giving a dance on Saturday night, Nov. 6th, to which the student body is invited. Fraternity men will be admitted free if they bring a date. No Independent will be admitted unless he has paid his dues. The dance will be from 9:00 to 1:00.

M.S.M.

### ROLLAMO BOARD MEETING

A Rollamo Board meeting was scheduled for Thursday evening in the power plants building, but in the absence of editor Dick Prough no business was taken up. Prough was in St. Louis and Jack Radcliffe, arrangement editor, took charge of collecting copy from try-outs.

M.S.M.

### Lanier Reports on Tau Beta Pi Convention

#### ENTERTAINS TAU BET MEETING WITH ACCOUNT OF NATIONAL CONVENTION

The M. S. M. Chapter of Tau Beta Pi had an exceptionally interesting meeting last Tuesday night. The interest was provided by the report given by Bert Lanier in regard to the National Tau Beta Pi Convention which he attended as the delegate of the local chapter.

The convention was held at the University of Texas, Austin, Texas, October 14-16, 1937. Lanier left Rolla Tuesday night, October 12, and arrived in Dallas Wednesday morning, seeing the city, and then that afternoon he joined the other delegates on a sightseeing tour conducted by the Dallas Alumni Chapter. The tour included the inspection of the Dallas Steam Electric Plant, the campus of Southern Methodist University, and ended at the gates of the Pan-American Exposition. The delegates swamped the souvenir stands on the grounds with purchases of everything from ten gallon hats to tapestries. After dinner the delegates attended the show at the Casino.

Then the delegates boarded the special cars that were to take them to Austin where the convention proper was to be held. The train arrived in Austin early Thursday morning.

Thursday morning was occupied by registration and reports. The delegates numbered sixty-eight and represented sixty-eight of the seventy Tau Beta Pi Chapters. The campus of the University of Texas was inspected during the afternoon. The afternoon session also included the granting of a chapter to Texas Technological College. That night the delegates attended a very model initiation of fourteen pledges of the University of Texas Chapter.

Friday morning at 6:30 the delegates left Dallas for a visit to San Antonio. The first stop on the trip

Continued on page six

## Dr. Malcolm Dale To Address Chemists

### Distinguished Northwestern University Research Chemist To Speak On Isotopes Tonight (Wednesday)

Prof. Malcolm Dale of Northwestern University has consented to visit Rolla on this evening, (Nov. 3rd), to address an audience on "Oxygen and Hydrogen Isotopes in Nature." This visit is to be one of many in an extended lecturing trip through the Middle West before local sections of the A. C. S.

Dr. Dale received his A. B. and Ph. D. degrees from Harvard in 1924 and 1928. From 1930 to 1932 he was research assistant to Dr. D. A. MacInnes at the Rockefeller Institute for Medical Research. Since

1932 he has been on the faculty of the chemistry department at Northwestern University, where he now holds the title of assistant professor. He is a member of the A. C. S., Electrochemical Society, and A. A. A. S. In 1936-37 he was vice-president of the Electrochemical Society and chairman of the Chicago Section of that Society. His research in Electrochemistry and Physical Chemistry led first to an explanation of the transference numbers, then to a theory of viscosities of aqueous solutions, next to a theory of the glass electrode. Recently a study of the isotopic composition of oxygen and hydrogen in nature led to the discovery of a difference in atomic weights between atmospheric oxygen and oxygen in water. The glass electrode and isotope researches are being continued.

The talk promises to be one of the highlights of the year in interest and value to the chemical engineering department. All interested in attending this speech are cordially invited to come.

M.S.M.

### Photography Club Gets Under Way

The fourth meeting of the newly formed Photography Club was held on Tuesday evening of last week. The club completed the business connected with its organization by establishing by-laws and appointing program and equipment committees. At preceding meetings, the club adopted a constitution and elected the following officers to serve for the year: W. E. Duncan, president; J. P. Faris, vice-president, C. R. Maise, secretary, S. Gayer, treasurer, and C. S. Weber, custodian of equipment.

Regular business meetings will be held on the first Friday of each month. In addition, special meetings will be scheduled for the presentation of programs.

Arrangements have been made to secure a dark room located in the Met. Building. The room will be furnished with equipment for developing and enlarging films and will be available for the use of all

Continued on page four

### Dr. Mann Publishes Article

A most interesting and instructive article has been written and published in "Mechanical Drawing News" for October 1937. The author, Dr. Clair V. Mann, is recognized as an authority on Objective Type tests.

Dr. Mann has been working on objective type tests for ten years. During this time he has devised

Continued on page six

### Miners and Met Tour Plant

#### Visit Federal Mine of St. Joseph Lead Co. in Southeast Missouri

On Friday, October 29th, it was the privilege of a group of mining and metallurgical students, and Professors Muilenburg, Forbes, Cullison, Cooke, and Prouty, to inspect the Federal mine and mill of the St. Joseph Lead Company in Southeast Missouri.

The party left Rolla at about 4:45 a. m. and spent the morning touring the underground works, noting many signs of the high efficiency with which the work is conducted. By the statement of a member of the party, the orderliness and cleanliness of the entire works was impressive.

Noteworthy underground features were the new loading facilities and the revamping of the hoisting arrangements. A 27-ton electric locomotive attracted some attention, being one of a series of engines being placed into operation. The St.

Continued on page four.

M.S.M.

### PROF. MILLAR AND STUDENTS VISIT BAGNELL DAM

Professor Millar and seven of his students went by automobile to Bagnell Dam to attend the 13th annual State Water and Sewerage Conference. They left Friday morning, the 22nd, at seven o'clock and returning that evening. What appeared to be the highlight of the conference was the luncheon at noon during which an open discussion was held. Those attending from Rolla were: Prof. Millar, J. Fwnrey, J. Allgeyer, B. Brannoch, H. Holtman, U. Nunnally, J. McCutchen, and A. Clarkson. Also there, were K. Rodman and L. Harwall, 1937 alumni from Rolla, now connected with the State Water Dept.

## When? What? Where?

### Wednesday, November 3rd

Alpha Chi Sigma, 7:00 p. m., Chem.  
Student Council, 7:30 p. m., Club Room  
Blue Key, 12:00 N., Parish House

### Thursday, November 4th

Tau Beta Pi, Initiation, 4:30 p. m., Club Room  
Tau Beta Pi, Banquet, 6:30 p. m., Pennant  
A. S. C. E., 7:30 p. m., Norwood  
Sophomore Football Practice, 4:00 p. m.

### Friday, November 5th

Photographic Club, 7:30 p. m., Club Room

### Saturday, November 6th

Independent Dance, Gym  
Football, Oklahoma City U.—There

### Monday, November 8th

Community Chorus, 7: p. m., Physics Lecture Room

### Tuesday, November 9th

A. S. M. C., 7:30 p. m., Mech. Hall

### Wednesday, November 10th

St. Pat's Board, 7:00 p. m., Norwood  
A. I. E. E., 7:30 p. m., Norwood  
University Dames, 7:00 p. m., Club Room.

## GOOD LUCK AT OKLAHOMA CITY, TEAM



## THE MISSOURI MINER



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

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## SOMETHING IS WRONG

The Engineers' Council for Professional Development has published the results of their survey of a large number of the engineering schools of the United States.

In the list of accredited curricula we find the following data for Missouri:

University of Missouri:	Civil Engineering
	Electrical Engineering
	Mechanical Engineering
Missouri School of Mines:	Ceramic Engineering
	Civil Engineering
	Electrical Engineering
	Metallurgical Engineering
	Mine Engineering (excluding Mining Geology Option)
Washington University:	Architectural Engineering
	Civil Engineering
	Electrical Engineering
	Industrial (Administrative) Engineering
	Mechanical Engineering

In addition to these accredited curricula, we find that degrees are being given in Chemical Engineering in each of these three colleges, in Agricultural Engineering at M. U., and in Mechanical Engineering at M. S. M.

This comes rather as a jolt to the students in these institutions working toward these degrees. We feel sure that the E. C. P. D. is qualified to make the ratings it has published, for it represents the A.S.C.E., A.I.M.M.E., A.S.M.E., A.I.E.E., A.I.Ch.E., S.P.E.E., and the National Council of State Boards of Engineering Examiners.

The E. C. P. D. has no authority to impose any restrictions as a result of this rating. But that it represents the combined judgment of these societies is enough to make its weight felt.

The situation in the matter of Chemical Engineering is the worst. There is no school in the State of Missouri where students may take a course in this subject which is deemed up to standard by the true authorities. We find the State of Missouri definitely at fault in this matter, and feel that the citizens of the State have the right to demand that the State Governing Bodies take steps to remedy this situation. We have long been dissatisfied with the vine covered ruins we have been using as a Chemistry Building and in the meager provision for apparatus and laboratories. Now we have the confirmation of an opinion which cannot be disregarded.

Missouri's educational opportunities are generally of the finest, but here we have an important defect which must be remedied. It is up to the state to bring these curricula up to par.

## OUR ERROR

Last week we rashly made the statement, in connection with the lack of a well-known graduate school here at M. S. M., that there seemed to be no research men on the faculty and that we never saw any research articles from this school in the technical journals.

Of course, such an absolute statement could not be true. A quite just protest has been made by one of the faculty members who is and has been engaged in research. So we investigated the matter in the bibliography of published articles by faculty members compiled by the library.

We find that from 1930 to 1937 (summer), approximately thirty professors at the School of Mines published articles which might be construed as technical. Of these, in eight years, just five turned out more than five technical reports. One of these is now dead and another has left the faculty, while another man with an admirable research record has been added to the faculty. This means that we now have four men who have been carrying on their researches with any degree of progress during the past eight years.

These are just the men with the highest records. There are some dozen who have turned out articles about every three years, and the remainder have contented themselves with one or two in this period. This data is, we believe, fairly reliable, although there may be special circumstances in some cases.

So the situation is not as black as it seems to the average student. But what we want to emphasize is that what we feel is the real reason for the comparatively limited amount of research by the professors is lack of opportunity rather than lack of inclination, at least among those thirty who have made some effort. Had these men the proper facilities and lighter teaching loads we believe that most of them would show themselves to be engineers and scientists as well as teachers.

We can only commend and admire the men who have pressed their investigations under unsatisfactory conditions, and wish that those others who have the desire were given the proper opportunities.

## Gleanings From Our Exchanges

By Carl Cotterill

From the "Kentucky Kernel", newspaper of the University of Kentucky we borrow this recipe for use of gentlemen. When your date whips out her compact and proceeds to retouch her face after a two-dollar dinner, we have discovered a method of curbing this indelicate practice. The next time your date produces her make-up kit in public, don't look into your coffee or cough nor reprimand her. Simply snap a razor, shaving brush, and a little soap out of your pocket, lather up your face thoroughly and shave. This method is the zenith of subtlety and if she fails to recognize its significance, then you might as well give up.

To prove that college education is an advantage in securing work, take the case of Guide Escort Bureau of Philadelphia. The bureau is not connected with a college but gives preference to college graduates because they are more understanding. The qualities considered are: be able to speak and understand a number of foreign languages; understand the deaf and dumb code; do manual labor, such as carrying suitcases; and have a good background. The service is operated on a strictly commercial basis and no romance is allowed.—Owl.

A college man is too honest to steal, too proud to beg; too lazy to work, and too poor to pay cash. That's why we must give him 2 hours.

They laughed when I walked over to the piano, they were right, I couldn't lift it.—Drury Mirror.

Evansville College needs publicity. Some colleges pay athletes and produce first class teams. Evansville has secured jobs—not the usual snap jobs but in many cases 40 hours-a-week work, for its athletes. Some athletes like making money so well that they fail to return in the fall so Evansville loses players.

Why not give, say, 36 athletic scholarships, all tuition and fees paid on condition that the students play football or basketball four years? A strong body is as important as a strong mind. Why not reward pigskin ability as latin ability?

It would cost scarcely any more to teach 436 students than 400. Those three dozen picked athletes would pack both the stadium and the school.—The Crescent.

Cape Girardeau has a new voice recording machine to help correct speech defects.

Then there's the fellow whose wife is so homely that he takes her every place he goes so he won't have to kiss her goodbye.—Tribune M.S.M.

## NAVAL HUMOR

The major was inspecting B company's mess and came upon a conglomeration of foodstuff that the head cook was preparing in the kitchen. He called for the bill of fare for the day and noted on it "Stew Enthusiastic."

"Where did you get the name for this dish?" inquired the officer.

"Well, sir, I just made it up," explained the cook. "You see, sir, I just put everything I've got into it."

"Ham you had better keep your

## THE EDITOR IS OUT

But We Are Glad to Learn He Will Soon Be Back.

Somehow or other this and the preceding issue of the Miner have managed to get into print. In the absence of Editor McCloskey his work has been well handled, but his pinch-hitters have learned more fully the job Mr. McCloskey has been doing, and will heave a sigh of relief when "Mac" returns to get under the load.

The campus knows John Robert Patrick McCloskey, as a quiet, courteous Miner—he is a miner, too—who is unobtrusive, but ready to accept responsibility. McCloskey has shouldered the responsibility of editing the Miner, and is doing it in a capable manner. It may be mentioned that the improvements in the paper this year, including the new headings, the new type, and the improved method of setting up captions, are the results of his efforts.

We are glad to learn that he is making favorable progress and should be able to leave the hospital about the latter part of this week. He is at St. Mary's Hospital in Centralia, Illinois. The Miners who are fortunate in being on their feet join in wishing "Mac" a speedy recovery.

eyes open when you go to New York."

Why?"

"People would think you were a bit off if you went around with them shut."

Sailor: "My friend, the marine laughed when I spoke to the waiter in French, but the laugh was on him. I told the waiter to give him the check."

He: "Darling, I love you as no one ever loved you before."

She: "Humph! I don't see much difference."

Navy Bill says: That now it's got so that any girl with a good job can get married.

Short-sighted Lady (in grocery): "Is that the head cheese over there?"  
Salesman: "No, ma'am, that's one of his assistants."

He: Do you like Kipling?

She: "I don't know. How do you kipple?"

## Eyes Over The Campus





# SPORTS PAGE

## COMPTON SAYS

### WARRENSBURG, CAPE GIRARDEAU TIED FOR LEAD IN M. I. A. A. RACE

A new conference champion will be crowned in the M.I.A.A. this season for the first time in five years, since Cape Girardeau clipped the title - holding Kirksville clubs wings Friday night, 14-0. The defeat removed the Bulldogs from any further consideration for the flag, as they now have one defeat and two ties on their record.

While Cape was advancing its title bid with its ninth consecutive victory, Warrensburg showed an amazing bit of scoring punch to trim Maryville, 25-7, to enable the Mules to remain in a tie with Coach Abe Stuber's team for the lead. Both Cape and Warrensburg have three victories and no defeats.

Only the Missouri Miners of Rolla, who remained idle over the week-end, have a chance to catch up with the leaders. Both Maryville and Kirksville were eliminated from the race, and Springfield was pushed out several weeks ago, when it lost its third game.

#### Bulldogs Out of Running

The defeat at the hands of Cape, although only the first for Kirksville, combined with two previous ties with the Miners and Maryville, left the Bulldogs out of the running for the first time in five years.

Both Warrensburg and Cape have two games left on their conference schedules, and one of them is the battle between the two teams themselves. Warrensburg's other game is with Kirksville, and fans expect the Mules to win that one rather easily. Cape's remaining battle is with the Missouri Miners on Thanksgiving, and while the Indians will rule the favorites, Coach Abe Stuber is not so sure about the result, especially if the Miner cripples are ready to play.

If the Miners win their remaining three games, the best they can do is to tie for the title. To have that happen, Cape and Warrensburg would have to play a tie game in their meeting and both teams

would have to be defeated in their only other contest. So far this season the Miners have lost to Warrensburg and tied with Kirksville.

The Bulldog dominance over the M. I. A. A. has lasted five years, during which time they gained national recognition for their undefeated records. A long winning streak was stopped in 1935 by St. Louis University after the Bulldogs had won 48 consecutive games. That was the only defeat for the Kirksville club that year and last season they again went through undefeated.

During that time the Kirksville fans saw Coach Don Faurot, who had built up the team to a championship contender, climb up to the University of Missouri. Fred (Fritz) Faurot, Don's younger brother, stepped in and headed the Bulldogs to another conference title. This year the club got off to a bad start when the Missouri B team defeated it. Defeat at the hands of the East Texas Teachers and a tie with Maryville and the Miners followed.

#### One Conference Game

Only one league contest is on tap for the fans this coming week-end, with the Kirksville eleven invading Springfield to take on the hapless Bears. This game should allow the Bulldogs to break into the victory column, as the Bears have not won a game this year and appear headed for the bottom of the standings.

The Miners, who play the stiffest non-conference competition of any of the teams in the conference, travel down to the oil fields of the Southwest to meet the Oklahoma City Goldbugs on Friday night. If the Miners can get their hospital list reduced considerably they have a good chance against the O. C. U. eleven.

After trouncing the Carbondale (Ill.) Teachers earlier in the season at Cape, the Indians now invade the Illinois city to meet again their traditional rivals. Although the Indians are favored, both coaches feel that anything can happen in such a natural rivalry.

Maryville takes on Rockhurst College at Kansas City, and Warrensburg will take advantage of an open date to rest up.

The standings:

	Won	Lost	Tied	Pct.
Cape Girardeau	3	0	0	1.000
Warrensburg	3	0	0	1.000
Maryville	1	2	1	.333
Missouri Miners	0	1	1	.000
Kirksville	0	1	2	.000
Springfield	0	3	0	.000

M.S.M.

Visitor—What are you going to do when you grow up, my little man?

Modern Youth—Follow in Dad's fingerprints, I guess.

### THE THREE CHEER LEADERS

For the first time in the history of the school there is organized cheering. In the past there has been little recognition in this line of school service. Previously there has never been more than one cheer leader, usually a freshman who has led his brother yearlings in a few half-hearted cheers during the football games. This year through the cooperation of the Student Council we have more than one cheer leader, we have three of them. The three cheerleaders, if you don't know them, are Carl Von Wehrden Senior; Walter Leber, Sophomore; and Robert Kennedy, Freshman. These three went to Coach Bullman and with his aid secured the uniforms they now have. As this is their first season the cheer leaders are a little ragged, but they assert that they will work into shape.

M.S.M.

## INTRAMURAL

After a few minor entanglements and a later than schedule start, the intramural season seems on its way. The second round of each tournament has been played except for touchball where a couple of ties have to be played off and a couple of games haven't been played. But otherwise everything is just about jake.

#### In Ping Pong 2nd round:

Casteel (senior) plays Underwood, (junior)

Kennedy, (Lambda Chi), plays Gammeter, (Lambda Tau)

Jennings, (Sigma Nu), plays Horsell, (Pi Kappa Alpha).

Kamper, (Triangle), plays Schifter, (Theta Kappa Phi).

Roux, (Sigma Nu), plays O'Connor, (Phi Kappa Alpha)

McDonald, (Kappa Alpha) plays Myrick, (Kappa Sigma)

Jensen, (sophomore), plays Silkorg, (freshman)

Dorsey, (Theta Kappa Phi), plays Stojeba, (junior).

These matches must be played before Saturday or else each player will be defaulted.

#### In Handball

Caplovitz, (sophomore), plays Stewart, (Triangle)

Johnson, (Lambda Chi), plays Dutenhafer, (Theta Kappa Phi)

Ellis, (Kappa Alpha), plays Egbert, (T Kappa Alpha)

Silkorg, (freshman) plays Casteel, (senior)

Gund, (Pi Kappa Alpha), plays Fennel, (Theta Kappa Phi)

Bowman, (Lambda Chi), plays winner of Stojeba.

(Juniors), Hall, (Sigma Nu) match.

Anderson, (sophomore), plays Doeringer, (Triangle)

Bauman, (Alpha Lambda Tau), plays Alger, (Kappa Sigma)

#### Handball—Doubles, 2nd round.

Kappa Alpha vs Sigma Pi.

Triangle vs Sophomores.

Sigma Nu vs winner of Pi Kappa Alpha-Kappa Sigma match.

Theta Kappa Phi vs Lambda Chi

#### Touch Football:

Sigma Nu took the Triangles in a hard fought battle in which McCrae broke through with a 90 yard run to take the game 6-0.

Sigma Pi took the Pi Kappa Alpha in a surprise upset where the Sigma Pi's outplayed, outfought and classed the Pi Kappa Alpha to end up the winner 6-0.

Kappa Sigma and Theta Kappa Phi battled to a scoreless tie, as did the Freshmen who were held

### LAMBDA CHI ALPHA FRESHMAN INDEPENDENT FOOTBALL GAME

Last Thursday afternoon the Lambda Chi Alpha Fraternity battled the Freshman Independents to a scoreless tie. During the first quarter it was pretty much the Lambda Chi Alpha way, but the remaining part of the game the Lambda Chi's had considerable trouble in keeping the ball in the middle of the field. Twice it looked as if the Freshmen would score, and once the fraternity boys were only saved by a penalty incurred by the Freshmen. However the Lambda Chi's had staved off defeat when the final gun sounded.

M.S.M.

### SOPHOMORE CLASS MEETING

The Sophomores had a meeting Wednesday, October 27, in the auditorium. President Sam Kurtz presided over the group (the Sophomore class was not very well represented). The first matter to be taken care of was a freshie who sneaked on the stage and proceeded to stage a one-man performance. His act was cut short, however, once Fred Thodal had hold of him and he lost no time in booting the freshie out of the scene. The class voted unanimously on uniform, fixed dues to help defray the cost of a page in the Rollamo, and other expenses. Due to the fact that football uniforms will not be available before Thanksgiving, the Freshmen invitation for a football game with the Sophomores before that holiday was declined, but it was agreed to have the game the first Saturday following Thanksgiving or December 4th.

M.S.M.

Patronize our advertisers

down by Lambda Chi.

This week Alpha Lambda Tau plays the Seniors on Monday at 4:30.

Kappa Sigma and Theta Kappa Phi play off their tie on Tuesday at 4:30.

The Freshmen and Lambda Chi have it again on Wednesday at 4:30.

The Juniors and Sigma Nu meet on Thursday at 4:30.

And on Friday the Sophomores meet the winner of the Freshman Lambda Chi tilt.

### RADIO CLUB MEETING

The Radio Club met Wednesday, October 27, 1937, in Norwood Hall.

A financial report of the club was given by Secretary-Treasurer Matthews. He also reported that the club had purchased 750 QSL cards.

Mr. R. C. Seibel then gave a very interesting talk about airway radio beams. He explained the different types of beams that are used.

Seibel explained that the aural-type radio range beacons transmit characteristic signals alternately from equivalent loops, which interlock, marking the course along the line of equal signal strength. Each radio range provides four courses. The standard "off-course" signals, "dash dot" (Morse N) "dot dash" (Morse A), are transmitted at the rate of 22 signals per minute in groups of four separated by the station identifying signal. "On course" is indicated when the "off-course" signals interlock with equal signal strength, thus forming a series of long dashes, or continuous monotone signals of about 12 seconds duration, which signals are also broken up by the station identifying signal. The latter is sent at a much higher rate of speed than the "off-course" signals. This precludes confusion between the two purposes, one purpose being to mark the course and the other to identify the station transmitting the course.

Continued on page four.

### BOARD FOR STUDENTS

There is room at our tables for just a few more students.

Two meals per day \$18.00 per month.

MRS. FLORA C. GRANT

### NOW—

Light up and save your eyes  
Lamps and bulbs—all sizes and prices.

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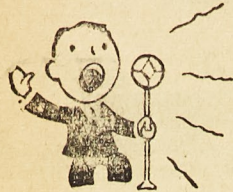
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## STATION J-I-G

Chatter About This'n That

Once more the stude's climbed on the merry-go-round and got in some fine dancing to a swell musical aggregation. Before we get into the several possible interesting remarks about the week-end's happenings, I would like to say . . . orchids, or what have you, to Buss and Betty, or the pinning of another lovely and charming girl to a Sigma Nu . . . These white stars really get around.

Friday the Triangles brought out what is to the writer, the gayest and most successful of all their fine dances. The unique programs (I hear they were not supposed to go over as well as they obviously did) were really the thing, rivaled only by a little idea to be explained later if I can get around to it. A little crowded, to be sure, but after all, without so much feminine charm as was present there, no affair can be the hit it is originally planned to be. Couldn't tell who this guy who likes to interrupt the band was paying the most attention to, his date or someone else, but I don't guess it makes much nevermind, so we will just let it rest where ever it has lit. Poor english I know Ed., but I don't think that any one reads this thing except to find the latest in correct english. Little Stanley could be seen once in a while, but never than that, except the tunes he played so nicely for the boys. . . Thanks Dottie . . . Comp reminds the folks that he was worrying about his present throb, and I don't mean headache. . . Then there is the matter of the umpteenth assistant coach and the date he had

for this affair. Looked like she was one or maybe ten jumps ahead of him, but oh well.

Short stride Kozy, who makes this thing for the second time in a row, thereby hitting a new low, finally found a date to match his size. . . . Good for the both of you . . . See if you can figure this one out . . . what three guys, two of them senior miners, asked a charming miss for a date with someone other that themselves for a dance later in the year. Anyway it was a peachy (flash, Jig uses new adjective) dance.

Now here we have something, in the happenings that went on at the Sigma Pi house the past Saturday. . . The disturbing element that disrupted Gilmore's boys was the manner of drss of the dates. I think there ought to be more of those type affairs, so why don't a committee on something or other get around to seeing about it. Little girls, robots, farmers, farmerettes, and what have you all mingled with one another to have fun. The well known throat cutting was very outstanding, even went so far as to setting out the last four dances I'm told sug. . . is that right?

Hey, here is something I almost forgot. . . . Why did Soapy stay over in Bonne Terre after the miners trip there last Friday. 'Fraid the boy has finally gone over the harness, lucky girl . . .

Ray Rodgers (oh oh, I'll get it from the Ed. for mentioning names) held up the A. L. T. social end, with his sweet lassie from Jim-Town.

Someone tells me that Buddy took a trip this week-end, but I guess you all know what that was for. . . . Then too, I hear tell Johnnie Mc. is going to try and be a nurses assistant again. What's the matter, guy, isn't once enough.

I got to get more dope on this Rho Dammit Rho outfit, me-thinks

### PROGRAM

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Matinee Every Tuesday 2:30

Selected Short Subjects on  
Every Program

NOVEMBER, Month of Hits!

Friday, November 4th  
Presbyterian Church Benefit  
"MUSIC FOR MADAME"  
with Nino Martini, Joan Fontaine  
Sat., Nov. 6, Matinee & Night  
Double Feature Program  
No. 1, Kenny Baker in  
MR. DODDS TAKES THE AIR  
No. 2, George O'Brien in  
"WINDJAMMER"

Sunday and Mon., Nov. 7 and 8  
"THE LIFE OF THE PARTY"  
with Joe Penner, Gene Raymond,  
Parkyakarkus

Tue., Nov. 9, Matinee & Night  
"MIDNIGHT MADONNA"  
with Warren William, Mady Correll and Nancy Clancy

Wed. and Thu., Nov. 10 and 11  
"SOULS AT SEA"  
with Gary Cooper, George Raft

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ROLLA DISTRICT

## Rolla State Bank

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

### PHOTOGRAPHY CLUB

Continued from page one

active members.

After the conclusion of Tuesday's meeting, Captain Hodge exhibited several color photographs which he took on the M. S. M. campus. When projected on a screen, the photos caused much comment on their vivid, natural coloring. The display, however, merely served as a teaser for the program planned for Friday evening, November 5. At that time, Captain Hodge will talk on the subject of color photography and also show many more of his films, some of which were taken during his trip through Mexico. The club will meet in room 123 of the Met. Building, and all who are interested are cordially invited to attend.

—M. S. M.—

### FOOTBALL SQUAD TO INSPECT OIL FIELD PRIOR TO GAME

Through the kind cooperation of M. L. Atkins, '25, K. A. Ellison, '25, and H. K. Ihrig, ex-'32, the football squad will be given an inspection trip through the oil fields adjacent to Oklahoma City on the morning of Friday, Nov. 5, day of the Oklahoma City U-Miner football game.

The squad will leave Rolla on Thursday at 9:00 p. m. in a special pullman, arrive in Oklahoma City at 8:15 a. m., breakfast at the Park-O-Tell, and leave at 9 for the oil fields.

The squad will be divided into several groups so that those interested in the different phases of the oil game may see that part in which they are most interested, as chemical, electrical, mechanical, and geological.

The Oklahoma Alumni will have a get-together at a 6:00 p. m. supper at the Biltmore Hotel, after which they will go to the game in a group.

Prof. Clayton, chairman of the Athletic Committee, will represent the alumni and the faculty on this trip.

—M.S.M.—

### E. SIMPSON AND E. HILL ADDRESS IRA REMSEN

Ira Remsen met last Wednesday in the Chem. Building to hear talks on last summer's work by E. Simpson and E. Hill. Simpson laid aside his drum baton and worked with test tube and flask for the DuPont Co. in Deepwater, New Jersey. His talk at the meeting embraced the interesting points of his laboratory experiences and various safety measures taken at the DuPont plant. Hill was also chemist this summer, working for the Eagle-Picher Co. in Galena, Kansas. He described for the club the various processes in the production of lead from ore concentrate, and the by-products of these processes.

Notice was taken of the poor representation present from the freshman class.

All chem students, from freshmen to seniors, are cordially invited to attend the meetings of their society, Ira Remsen.

they really throw parties, and who am I to get in on anything anyone gives. For that matter, who are any of us. "Little" Doc and his little dutch maid are still that way very much about each other, and here's hoping it sticks.

By the way, lets see how many of you can be down around the depot to see the team off this Thursday night at 9 o'clock. You know, it might help a lot if we all showed a little spirit concerning the team. Heres hoping there are enough of you there to stop the train, and all of you in good voice.

Don't forget the large affair coming up on the 20th, and with a last shot at nobody in particular, I shall close with the reminder to the Ind. to be careful next week-end.



## THROUGH THE TRANSIT

by homer bru. . .



Two dances over the week-end consequently no date for homer. Even a good show cuts my throat. Understand some of the Greeks had a little trouble finding a freshman to send to Saturday light fantastic, though this is no crack at the Sigma Pi's. A weary bunch of miners pulled in Friday night wondering if maybe they weren't in the wrong department. Mid-Semester week finds the student body in a very uneasy state. Can you take it? Get your vest out Stajeba.

The local fire dept. is sadly overdrawn this month, but do you think the K. A.'s care? Kirwin seems to be bothered a lot by "outside interests," or wasn't that what the Prof meant when he said "Outside, Kirwin". Careful not to trip over our knee-length freshman, or has anyone noticed him. Ramey's still have the best hamburgers.

### RADIO CLUB FROM PAGE 3

marking signals.

Seibel explained the method of visual beacons. The fundamental of this system is to send the carrier wave simultaneously into each loop, and to modulate each one separately to a different frequency. The indicator consists of two reeds that vibrate vertically between electromagnets which are connected electrically to the output of the long-wave receiver. One of the reeds is mechanically tuned to the modulated frequency of one loop, while the other reed resonates to that of the other loop. The tips of the reeds are white and have a dark background. When the plane is flown on the course, the reeds vibrate with equal amplitude. When the plane is off course, the reed that is nearest its corresponding loop has the larger amplitude, so that the pilot always turns in the direction of the reed that is vibrating least to find the course.

Seibel then answered questions asked by various members. The meeting was then adjourned.

—M.S.M.—

### MINING AND MET TOUR

Continued from page one.

Joseph Company has for some time furnished an outstanding example of modern operating methods, possessing a highly integrated system of underground repair and machine shops, power shovels and scrapers. In the mill, production has been stepped up to a daily tonnage of 10,000 and is scheduled to reach 12,000, although originally handling only 6000 tons.

The company has been in continuous operation throughout the depression and for much of the time has been the sole operator in the S. E. Mo. district. This has been due to the close cooperation between the management and

Get Doc Miles to show you his bubble machine, it's really ingenious. Hear he was one of the best mathematicians ever to graduate from here. A guy would have to be, to graduate I'm thinking.

A former M. S. M'er, a her, lately removed to Arkansas, was carrying the torch Homecoming week-end. Whyn't you tell him gal? Still haven't been able to find out why the victory bell was tolling last Saturday afternoon. Did somebody beat somebody at something? Or are they just seeing if the darn thing will still ring.

SPORTS DEPT: The boys are really training for the mile-and-a-half "cross country" to be run in the near future. Don't miss it. Intramural ping-pong is coming right along, but the tiddley-wink tournament hasn't begun as yet. Yes it is awful.

the employees, resulting in a staggered schedule of hours in order that more men might continue at work, as well as the efficient management of the technical details. In December, 1936, wages were restored to the 1929 scale.

This tour of inspection was an unusual privilege to the extent that the policy of the company does not permit every day, casual inspection.

—M.S.M.—

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Fine fitting last.  
Extra strong uppers.  
Flexible sole.  
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Double soles.  
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pockets, water resisting uppers.  
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English style.  
form fitting legs.  
all calf skin lined.  
A real style and quality leader.  
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A variety of styles in lace and pull-on styles. All sizes.  
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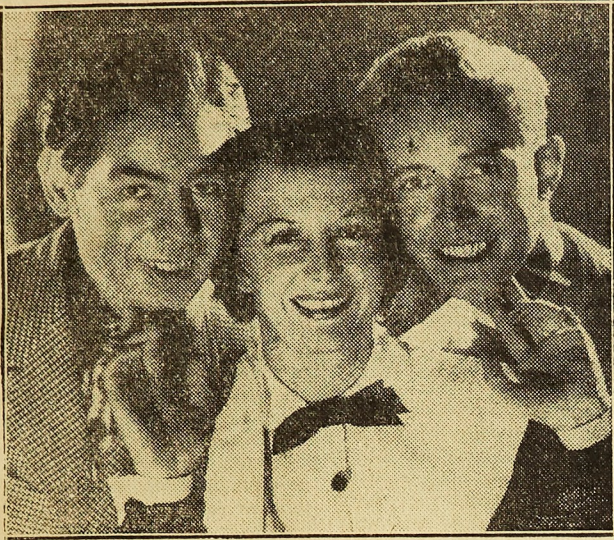
Kaywoodie, Yellow Bole and  
Frank Medico Pipes

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## VELASCO'S VOCALISTS



Emil Velasco, radio's "wizard of the organ" who brings his famous dance band to Rolla for the St. Pat's Board Dance on November 20th, through arrangements with Consolidated Radio Artists, Inc., features a \$25,000 portable pipe organ in the orchestra's instrumentation. Although born in Mexico, Emil Velasco has lived in the United States since he was a child and is a naturalized American citizen. His professional career started when he was 17 years old. At that time he was playing a piano in a Chicago theatre for \$8 a week. He worked his way up through various

stages of theatrical work and his first big job was that of featured organist of the Roxy Theatre. It was while at the Roxy that he once played 1024 different compositions from memory, sixty-four consecutive hours of broadcasting. The feat was chronicled by Robert E. Ripley in his famous "Believe it or Not" Newspaper feature.

Velasco has surrounded himself with an able group of twelve musicians in his present dance orchestra. Aside from the \$25,000 portable organ, the band features the vocalizing of charming Helene Gray and Earl Partain, Rhythm singer.

## THE A. S. M. E.

Professor Kilpatrick Reveals Splendors of Niagara Falls. Also Short Talks by Haacke and Phillips.

A very profitable evening was spent by those in attendance of the regular bi-monthly meeting of the A. S. M. E. last Tuesday. This meeting can be distinguished from many others by the apparent humor which existed throughout the evening. This atmosphere kept the boys' "sunny" side foremost.

By popular vote it was decided that an organization with the strength of this chapter of the A. S. M. E. should not be outdone by weaker organizations — the society will have a page in the Rollamo this year.

The first student speaker of the evening was George Haacke, who

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MAKE YOUR SELECTIONS EARLY

From 1c to 50c each.

## You Know Them Too

By Ray E. Vaughn

A husky, two-fisted man about twenty years of age who is a senior mechanical. He is JOSEPH CRAIG ELLIS.

Ellis began his extra curricular activities on this campus by pulling a fast one at a St. Pat's ceremony. He brought in the famous blarney stone that received country-wide attention. Surely, every one of you know this bit of history.

Taking advantage of one of ten competitive scholarships given high school seniors throughout the state, Ellis left Maplewood High School in the spring of '34 to enter the School of Mines the following September. During his freshman year he was awarded the scholastic honor of ranking in the upper one fifth of his class. His grade point average at the present time is 1.87. During his sophomore year Ellis was a cadet corporal in the R. O. T. C., and was given membership in the Theta Tau national professional engineering fraternity, whose object is to unite its members in a fraternal body in an endeavor to bring about a high standard, ethically and technically, among engineers in general, and among its own members in particular. He also became a member of the Blue Key national service fraternity in his sophomore year. During his junior year Ellis was elected a member of the Independents Governing Board, but later joined the Kappa Alpha national social fraternity; was a student assistant in the Mathematics Dept. during the 1st semester; and became a member of the American Society of Mechanical Engineers. This year he is serving as secretary of the K. A. fraternity, president of the Blue Key, vice-president of the A. S. M. E., and alternate representative of the Student Council; and is a pledge to the Tau Beta Pi fraternity which selects pledges from the junior and senior classes who are given membership later in the year providing they meet a number of requirements. They must rank scholastically in the upper one eighth of their class although in the actual selection, personality, character, and loyalty are taken into consideration. Membership in this fraternity is considered one of the highest scholastic honors of the School of Mines and Metallurgy.

Ellis is rated superior in general mental ability, application to work and persistence of effort, ability to shift for himself, leadership, sense of responsibility, sincerity of purpose, and personality. He is of the executive type and is expected to hold a leading place in whatever group he may find himself.

M.S.M.—

During its fiscal year which has just closed Red Cross Public Health nurses made more than 1,000,000 visits to the sick. At the same time Red Cross instructors have given courses in home hygiene and the care of the sick to 54,830 mothers and young girls, men and boys, inspiring them toward better living conditions. This work is supported by your membership dollar. Join the Red Cross during the annual Roll Call, November 11 to 25.

Boggy—Can you stand on your head?  
Woogy—Nope, it's too high.

teresting.

Chairman Jaenecke expressed his opinion that a very good year is in store for this chapter of the A. S. M. E. A long list of films and speakers are in line for presentation during the ensuing year. A man well informed on petroleum production may give a lecture at a later date.

Everyone retired to the drawing room for the old standby in refreshments.

## X-Rays Predicted Carolina's Quints Before Their Birth

## They Only Happen Once in 40,000,000 Pregnancies

Chicago.—The North Carolina quintuplets, prematurely born last November, but who died at birth, will go down in medical history as the first quintuplets ever diagnosed as such before birth.

An X-ray picture was taken of the mother when she entered the Duke hospital, Durham, to have her baby. The film showed four heads and five bodies.

Next day the babies were born and, like the Dionnes, all were girls. Four were normal and the fifth was a headless freak. Two of the babies survived as long as 30 minutes.

## Doctors Argue, Study.

Doctors throughout the country for the first time read and argued over this quintuple pregnancy, which brings the total of reported quintuplets in all medical history up to 35.

Once in 40,000,000 births is the expectancy of quintuplets.

Not only were the North Carolina births the first instance of a diagnosis of quintuplets being made prior to delivery, but because the babies died in a hospital it was possible for the physicians to make a complete anatomical study of the fetuses, placenta and membranes.

## One Egg or Several?

Drs. E. C. Hamblen, R. D. Baker and G. D. Derieux report the case and their finds in the Journal of the American Medical Association.

What will provoke the most discussion among physicians, upon reading this report, is whether these babies sprang from one egg cell or from several. Were they identical or where they not?

The Duke hospital doctors are themselves perplexed, after presenting all their findings, but are inclined to the opinion that the five babies may well have been derived from a single ovum.

## Newest Night Comfort Is Air-Conditioned Bed

Cincinnati.—Aid for hot weather sleeping or for patients afflicted with hay fever is an air-conditioned canopy for beds which is entirely transparent to overcome the dislikes of people with claustrophobia. Most everyone has this dislike of closed spaces in some degree or another.

The canopy, made of a trade material known as Pliofilm, is soft, can be rolled up, is lightweight and washable. The canopy is placed over a bed like a mosquito cloth which a mother uses to cover the baby in his carriage, and at the foot of the bed the canopy covers the outlet of a small airconditioning unit.

A lowering of the temperature by ten degrees is claimed for the unit and the excess humidity is simultaneously removed.

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"Did your watch stop when it hit the floor?"

"Sure, did you think it would go on through?"

Clerk: "These are especially strong shirts, madam. They simply laugh at the laundry."

Customer: "I know that kind; I had some which came back with their sides split."

Lady: "I sent my little boy for two pounds of plums and you only sent a pound and a half."

Storekeeper: "My scales are all right, madam. Have you weighed your little boy?"

"I read in a book that Apollo was chasing a nymph and she turned into a tree."

"He was lucky. Those I chase always turn into a night club or a restaurant."

The Officers' Steward was putting a company of new Mess Attendants through their places in "Boot Camp". His command was "Eyes right". No one obeyed. It was repeated in a louder tone . . . but still no response. The Officers' Steward walked up to one of the men, looked him in the eye and said, "Eyes right."

"I guess you is," replied the man, "Nobody's arguing with you."

Mess Attendant: "What you doing with that queen of spades in your pocket?"

2nd ditto: "That ain't no queen of spades, that's my gal friend."

O'Jawish—Me get married? No sir. Marriage makes me think of a cafeteria at noon time.

'Pinch—How so?

O'Jawish—In either case, one simply grabs something that looks nice and pays for it later.

Chuzz, a Benedict of four months, came home and finding his wife sewing on a tiny garment, cried, "Frances, my dear, my dear!"

Mrs. Chuzz—Don't be silly, darling. This is only my new evening dress.

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And remember, Miners, Please, that 10 cents per day, same as last year, buys your Remington

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Fifty years of service to M. S. M. men, and "still in the ring" at 8th & Pine

### ENTERTAINS TAU BET MEETING WITH ACCOUNT OF NATIONAL CONVENTION

Continued from Page One

was Randolph Field, the immense army airfield. The next stop was the San Jose Mission where the delegate unlimbered their cameras. The tour next proceeded to the historic Alamo which is located in the heart of the city of San Antonio. After wandering through the Alamo, the delegates made their way to the Original Mexican Restaurant where they enjoyed a lunch composed of various Mexican dishes. After lunch the return trip to Austin was made.

Friday night the delegates were entertained with a Formal Dance given in the Commons on the Campus of the University of Texas. With the aid of co-eds from the various sororities the Tau Betas spent a most enjoyable evening.

The last business of the Convention was held Saturday morning and the afternoon was spent at the Texas-Arkansas football game.

The Convention ended at the conclusion of a banquet held Saturday evening and the delegates began the homeward journey.

Lanier reported a very pleasant and instructive trip. His report was thoroughly enjoyed by all those

present at the meeting.

Plans for the initiation of the pledges and the initiation banquet were also made at the meeting Tuesday night. The initiation ceremony will be held Thursday afternoon, November 4th, 1937. The banquet will be at the Sinclair Pennant Tavern that night at 6:15. The principal speaker will be the Rev. Father F. J. Macelwane, S. J., from St. Louis University. He will speak on the subject "Seismic Methods in Prospecting".

M.S.M.

### DR. C. V. MANN'S ARTICLE PUBLISHED IN "MECHANICAL DRAWING NEWS" FOR OCTOBER

Continued from page one

and copyrighted many tests that have been recognized by eminent drawing instructors throughout the nation. Many of these tests have been taken by freshmen in the School of Mines.

"Manntests" cover practically all phases of Mechanical Drawing. In his article, Dr. Mann tells of the importance of checking instruments, Visual Acuity of the student, and mechanical insight. The student's use of the Architects and Engineers scales is stressed. Dr. Mann believes that a thorough knowledge of these rules is import-

## PAY DIRT

By C. Sharp

Either the old eyes are going back on me, or a Miner had a date and not his pants last night. Some new kind of masquerade maybe, but on the main drag! Well, Homer will get his wish. La Harvey (of the hashery Harveys) figures for an edge-of-town hot spot, complete with swimming pool. Wow. . . . Was your Prof a mean Thursday fourth, or did you get a glimpse of our alumnus in his teeth-rattling Hell-Diver? Hope the powers-that-be here at the institution let be what is. He was having fun. . . Author of Station J. I. G. was somewhat worried about a broken nose at the "tea party" out on the west side. Rolla forges ahead, with a new auto agency sprouting behind the post office, in lieu of the figured-on show house. Have you written home this week? Better.

Swingins

Swelltest ditty in a long while is

ant to the success of the student as a draftsman. These are just a few of the many phases of Dr. Mann's objective tests.

Dr. Mann is to be commended on his fine work in this field.

"Dipsy Doodle". Listen to Barney Rapp do it. Are you hearing Lights Out every Wednesday night at 11:30? It's a nightmare getter. Benny Goodman fans (the chumps) will find a good pictorial story of his band in Life this week. Next time you're at a dance try "Posin" for a lot of fun. "Movie Maestro". Roger Pryor really isn't bad if you can find a shoe to throw at the radio when he tries to sing. Can anyone tell us what ever happened to Blue Stel and his band? Bey, borrow or steal Horace Heidt's "Intoxicating Rythm" for the oie gramophone. Lenser for the Nebraska State Journal had three flash-bulbs go off in his hand while photoing Sally Rand. He says it was static in the air, but we think it was his pulse.

Ain't it awful?

—C. S.

M.S.M.

School Principal — Now, Roger, what are you doing? Learning something?

Roger—No, sir. I'm listening to you.

Mikhail — You look positively beautiful tonight.

Elsie—Oh, you flatterer!

Mikhail—No, it's true. I had to look twice before I recognized you.

M.S.M.

Patronize our advertiser.

Eight million American school boys and girls, members of the Junior Red Cross, are working for better health and living conditions, and for better world understanding. Your membership in the Red Cross helps support such work. Join during the annual Roll Call, Armistice Day through Thanksgiving Day.

M.S.M.

Guppy—Yes, Mr. Tyte is a good friend of mine. Why, I remember that during the worst part of the depression he showed confidence in me when the clouds were dark and threatening.

Duff—In what way?

Guppy—He lent me his umbrella.

Billy—Uncle Mike, you are not married, are you?

Uncle Mike—No, son.

Billy—Then who tells you what you ought not to do?

Roberta—Tessie says she intends to keep her youth.

Mary — Yes, I know. She never introduces him to anyone.

Plans are under way for the construction of a great resort at Boulder Dam, it was revealed by Congressman James C. Scrugham, Nevada, a recent visitor to Treasure Island, San Francisco Bay site of the 1939 Golden Gate International Exposition.

Gosh!  
am I popular

Chesterfields give everybody  
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Take out a pack and it draws  
'em like a magnet . . . right away  
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