



15 Nov 1957

The Missouri Miner, November 15, 1957

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ROTC Main Source Of Army Officers

100 Sophs Enroll for Advanced

The Reserve Officer Training Corps program, which is offered to students in many educational institutions at the college level, produce more commissioned personnel for the Reserve Components of the Armed Forces of the United States than all other sources combined.

These reserve components are what makes the leaders of our country confident that our national defense is adequate. The reserve will be employed immediately and actively in the event our security is seriously threatened. Thus, the ROTC program gives each student an opportunity to prepare himself for service to his country in a capacity commensurate with his ability and education.

Here at MSM the Army ROTC provides this opportunity for training, leading to a commission

in the United States Army Reserve. At present the ROTC Unit at MSM has the largest Engineer ROTC Cadet Corps in the country. Colonel Lloyd L. Rall, PMST, encourages every interested and eligible student to give serious consideration to enrollment in the ROTC Advanced Course.

Dean Curtis L. Wilson has frequently expressed a great enthusiasm for the training provided by the ROTC program. He believes that ROTC training will give the student advantages and benefits not otherwise available in schools where ROTC instruction is not offered.

100 Sophomore Cadets in the MSM ROTC Cadet Corps have already indicated their intention to enroll in the Advanced Course, two years of ROTC Basic training, or their equivalent, makes a student eligible to apply for ROTC Advanced Training. Satisfactory completion of the two years advanced training makes a student eligible for a commission in the United States Army Reserve. Students who are or may be eligible for this training are doing themselves and their country a disservice by not taking advantage of the opportunity presented.

St. Pat's Board Presents Movie Wednesday

The St. Pat's Board is sponsoring a movie next Wed. night Nov. 20 at the Uptown. The feature picture will be "Attack" starring Jack Palance. There will also be a Mr. Magoo, a Road Runner, and a Tom and Jerry cartoon. Tickets may be obtained in advance from S. Pat's Board members.

Military Ball December 14 Cliff Forester Band To Play

This year the annual Military Ball will be held on Saturday night, December 14. Music will be furnished by Cliff Forester and his 10-piece orchestra, plus a featured vocalist.

All organizations have been asked to choose and support a queen candidate. Forms for the queen candidate can be obtained from the Military Department. The selection of the queen will be done by a newly-organized group called the Military Ball Board.

Contrary to last year, the school has placed no restrictions on fraternity or independent parties on the Saturday night of the Military Ball. Instead it is hoped that these organizations will arrange their schedule of events to include the Ball if they desire.

The Military Ball Board consists of five fraternity and five independent members, with Captain Nowak acting in the capacity of advisor. The Board members act as committee heads and their committees are made up mostly of juniors and seniors.

The dress for the ball is formal, military uniforms or a tuxedo. The price of the tickets will again be \$5.00. Hope to see you there. Military Ball Board

THE MINER

VOLUME 44

ROLLA, MO., FRIDAY, NOVEMBER 15, 1957

NUMBER 8

Miner and Rollamo Staffs Attend ACP Convention

Three Day Conclave Held in New York

Last weekend the MINER and ROLLAMO staffs were represented at the Associated Collegiate Press Convention in New York. Editors-in-Chief Dick Okenfuss and Rich Konrad headed the two delegations which attended the four-day convention at the Hotel New Yorker. Others who went were: Associate Editor Dick Ross and Business Manager Jim Urban of the ROLLAMO, and Assistant Editor Joe Masnica and Staff Writer Jerry Borman of the MINER.

The 32nd Annual ACP Convention was opened by the well-known columnist Hal Boyle on Thursday evening with a mixer following. The next two days were devoted to various meetings and discussions on all aspects of newspaper, yearbook, and magazine publication. Many noted journalists were present to conduct the talks. Also over 500 delegates from throughout the United States were gathered for the activities.

Several of the delegation took advantage of the opportunity to visit many of the well-known places in New York and also some of the lesser-known spots. Tours were taken through the New York Stock Exchange, the United Nations Building, Staten Island Ferry, Brooklyn, Greenwich Village, Rockefeller Plaza and other places. The delegation stayed at the Piccadilly Hotel which was only a half block from Times Square.

Everyone enjoyed the trip to the fullest, especially meeting students from all over the country and joining them in the many and varied activities. The final conclusion of everyone was that: "New York is here to stay. I wish I could!"

Speaker Here Monday Night

News Bulletin: Howard W. Honefenger, president of the Missouri Society of Professional Engineers, will speak here on Wednesday night, November 20, in Parker Hall. The program sponsored by the M.S.M. Chapter of M.S.P.E., in co-operation with the AIEE-IRE, ASCE, ASME and other professional organizations on the campus will be in connection with "Young Engineers Month."

Next Monday

ME's To Display Power Equipment

Dr. Aaron J. Miles, Chairman of the Mechanical Engineering Department, recently announced that two well-known power equipment companies will demonstrate models of their newest power generating laboratory.

On November 11 and 12, 1957, Mr. Joe Quinn, an MSM graduate, was in the M. E. Lab discussing and demonstrating a model of the modern power generating equipment manufactured by Allis-Chalmers.

Babcock & Wilcox will display equipment in the M. E. Laboratory Monday, November 18, 1957. Mr. W. T. Little, former professor at the University of Iowa, will be pre-

sent to discuss Babcock and Wilcox's pressurized water reactor, as designed for Consolidated Edison Company's nuclear steam generating plant at Indian Point, New York. He will also demonstrate their Cyclone-Furnace-Fired Universal Pressure Steam Generating Plant, which was recently purchased by the American Gas and Electric Company. The latter is a supercritical pressure steam generator.

All interested students, faculty, and the general public is invited to stop by the Mechanical Engineering Laboratory on Monday, November 18, and see these demonstrations.

32 Oxford Scholarships Available This Year

Again this year, 32 Cecil Rhodes Scholarships are being offered to American college men who wish to complete their training in England, at Oxford University. These scholarships are offered for a minimum period of two years and are renewable if performance is satisfactory. They are valued at (pounds) 600 — about (dollars) 1300 — per year, and must be applied for by November 6, if enrollment in the fall term of 1958 is expected.

To be eligible for a Rhodes Scholarship, one must be a male citizen of the United States, between the ages of 19 and 25, and, at the time of application, have at least Junior standing in a recognized university or college.

Selection for Scholarships is based on literary and scholastic

ability and achievement, qualities of manhood, leadership ability, success in athletics. Some outstanding distinction in intellect or character is the one absolutely necessary pre-requisite for an appointment. Financial need does not influence selection.

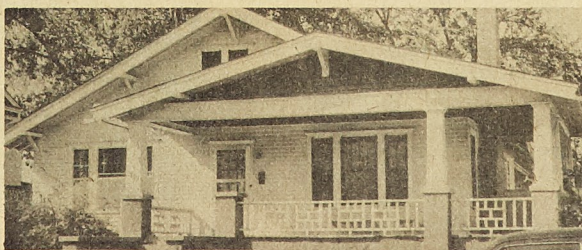
Any curriculum offered at Oxford is available to the winner of a Rhodes Scholarship. Degrees are offered in mathematics, physics, chemistry, engineering, and geology, as well as in more liberal subject matter. The minimum period of residence for either the B. A. or for an advanced degree is two years.

Requests for application forms and information regarding the scholarships may be addressed to Lemoine Skinner, 320 North Fourth Street, St. Louis 2, Missouri.

NOTICE

The Thanksgiving Holidays will begin at 12:00 noon on Wednesday, November 27, 1957. Classes will resume on Monday at 8:00 a.m., December 2, 1957. Students are reminded that Wednesday and Monday are negative hour days.

Prospectors' Club's New House



New home of the Prospectors' Club at 1005 Elm Street, across the street from the new Telephone Company office. The Co-op Eating Club plans to move the week of Thanksgiving.

—Picture by Jim Robertson

THE MISSOURI MINER

THE MISSOURI MINER is the official publication of the students of the Missouri School of Mines and Metallurgy. It is published at Rolla, Mo., every Friday during the school year. Entered as second class matter February 8, 1945, at the Post Office at Rolla, Mo., under the Act of March 3, 1879.

The subscription is \$1.00 per semester. This Missouri Miner Features Activities of the Students and Faculty of M. S. M.

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A Question

What Makes an Engineer?

Editor's Notes The following editorial was written by Louis Rosenburg, editor of The South Dakota Tech, of South Dakota School of Mines. Lou is a former M. S. M. student and his editorial is being reprinted here in the MINER as it was felt that this editorial pertains to the problem here also.

What makes an engineer? Three of the main ingredients are certainly versatility, perseverance, and ingenuity. But these three traits are worthless in themselves without the right background—training in their utilization. For this reason one goes to college—to widen his background, to increase his understanding, to broaden his scope of life. So this future engineer comes to the School of Mines, or Tech if you prefer, where the curricula is selected to give a wide background in engineering topics and to increase understanding in many subjects other than engineering—the mere fact of leaving home broadens one aspect of life. But after two years there are the beginnings of discontent.

The student asks himself, "Am I learning to be an engineer here or merely a technician? How can a school teach engineering when it leaves no room for invention, for ingenuity; for everything taught here is cut and dried with no room for doubt or speculation. Where is the chance for versatility? Practically all the professors assign homework as if theirs was the only course one was taking. A student has no chance to learn any more; he's so busy doing homework that he has no time to study. Examinations amount to contests of who remembered the most, often the petty insignificant details concerning a remotely related or even outdated subject. There are so many exams that one is continually cramming for the next one. I am left with the impression that the majority of professors on the campus don't care whether their students learn anything or not. As Bibler says in one of his cartoons, 'I never stoop to argue with a student; I flunk him!' Why this indifference? One cannot say, however, that a student does not learn perseverance; it is practically all he does learn. Where do I get my broader aspect on life? Not on the campus surely where everything I do and hear is academic. I cannot say that I have picked up any of the social graces from campus life either.

"In considering all this though, I must ask myself, 'What have I done to improve my situation?' In almost all cases the answer is nothing. I have not participated in any organizations as I should as a member. I have not agitated for improvements which are easily within reach by fomenting a movement of the right sort. I have not attempted to learn or practice the social graces of which I see such a lack. I have not taken an interest in any school activities in which I have desecrated such a decided lack of spirit. I am guilty of having next to no school spirit. I have become guilty of attending classes merely to be counted present with no desire to learn. I am ambitious-less. In short, my attitude is complete indifference to all that surrounds me; and yet I expect to receive a degree and to accept a job as a qualified engineer for some unsuspecting company."

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Lo and Behold!! What did we spy swinging from the outhouse door, commonly known as the Geology Dept. Bill Board? Some student from one of Capt. Dick's lectures (?) hung up a certified copy of the famous words of wit pertaining to an unidentifiable subject. We of the Round staff are deeply indebted to this great white Geologist for supplying so great a contribution to Rollian Humor. If this talented person would kindly pass on more of this news, the campus would surely consider his name for that great honorary post as stable cleaner of the Merry-Go-Round.

Principles of Coal Geology if there are any. Coal Industry—is doing okay now because Cap'n Dick said it would.

Low ebb in coal industry—

Did John L. do it? ...
Change over to Oil and Gas

Who wants ashes? Cap'n Dick would shovel ashes for a few bucks saving!

"Coal industry wants men who don't know enough to come out of the mines—(They never went far enough in school to find their way out)."

Powder Salesman—Those who blast, not the ones who sell cosmetics.

"They want men who go for holes!"

"So much for that."

Coal will be used in chemical industry—nuclear power will be the thing for fixed power, oil for engines, etc. In other words, "I'm not sure just what."

"England might be running out of coal, and then again they might not be running out of coal, probably."

By-product coke—"Pause for a Coke."

Cap'n's discussion of the coke and the beehives—"Tars and other stuff got messy and the bees joined John L. on the picket line."

Fact—Cap'n Dick can't con-

ceive—can't breathe either. "Etc.—etc"—and Aah—Aah—Uh. Uh!"

Direct hydrogenization of coal—used powdered fuel—"Germans did it and lost the war."

Powdered coal is used in turbines—

"Flies of ashes are blown into the air. Hard on the engineer's eyes; flies didn't go for it either."

"Old Miners had to get on their knees until gasification methods were used."

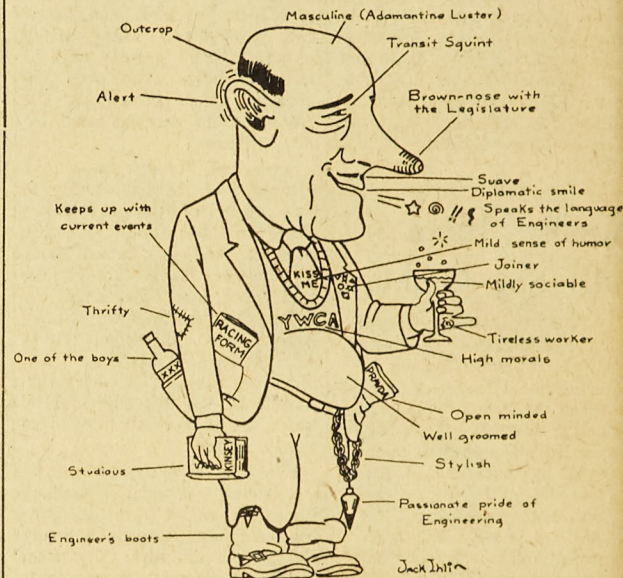
"Used to strip eight to one, now if you have 18" they strip themselves."

Career—"Accident rates aren't as good as they used to be—good for publicity, but hard on employees."

"Seven-tenths of a coal miner is dead, used to be more—due to unions and wages."

Cap'n Dick excused class for attending Lecture.

THE ENGINEER



—from South Dakota Tech—



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23rd Psalm to an Engineer's Sweetheart

Verily, I say unto you, marry not an engineer.

For an engineer is a strange being, and is possessed of many evils.

Yea, he speaketh eternally in parables which he calleth formulae,

And he wieldeth a big stick which he calleth a slide rule.

And he hath only one bible, a handbook.

He thinketh only of stresses and strain, and without end of thermodynamics.

He showeth always a serious aspect, and seemeth not to know how to smile, and he picketh his seat in a car by the springs therein and not by the damsel.

Neither does he know a waterfall except by its horsepower, nor a sunset except that he must turn on the lights, nor a damsel except by her live weight.

Always he carrieth his books with him, and he entertaineth his sweetheart with steam tables.

Verily, though his damsel expecteth chocolate when he calleth,

She openeth a package but to disclose samples of iron ore.

Yea he holdeth his damsel's hand but to measure friction thereof.

And he kisseth her only to test the viscosity of her lips.

For in his eyes there shineth a faraway look that is neither

Love nor longing—rather a vain attempt to recall a formula.

There is but one key to his heart, and that is Theta Tau, and

But one love letter for which he yearneth, and that is an "M."

When his damsel writeth of love and signeth with crosses, he

Taketh these symbols not for kisses, but rather

For unknown quantities.

Even as a boy he pulleth a girl's hair but to test its elasticity.

But as a man he discovereth different devices:

For he counteth the vibrations of her heartstrings; and

He seeketh ever to pursue his Scientific investigations; even his own heart flutterings he counteth as a vision of beauty, and enscribeth his passion as a formula.

And his marriage is a simultaneous equation involving two unknowns, and yielding diverse results.

—The Log

Assorted Comments by Assorted Commentators

"I don't think the boy of lively mind is hurt much by going to college. If he encounters mainly jackasses then he learns the useful lesson that this is a jackass world."—H. L. Mencken.

"It is nothing short of a miracle that modern methods of instruction have not yet entirely strangled the holy curiosity of inquiry."—Albert Einstein.

"A college education is one of the few things a person is willing to pay for and not get."—William Lowe Bryan.

"The University brings out all abilities, including stupidity."—Anton Chekhov.

AND ON A MORE POSITIVE NOTE:

"A university is not a school or a group of schools, but an atmosphere."—Cardinal Newman.

"The highest happiness of a

man as a thinking being is to have probed what is knowable and quietly revere what is unknowable."—Johann Wolfgang Von Goethe.



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Graduate Study

Mr. Z. W. McNurtsk
Schenley State College
Barnesville, R. I.

Dear Sir:

In reply to your letter asking for suggestions for graduate thesis work you might study here. I shall suggest a few topics which we think suitable.

1. The tensile strength of the average yoyo string.
2. The Maximum pulling strength of Twenty Mule Team Borax.
3. The daily food consumption of a sewer cleaner.
4. The social conditions in an Algerian harem.
5. The number of vibrations in the life of a musical saw.

If you have any further questions, feel free to write me.

Yours respectfully,

I. M. Fulobull
Dean of the Grad
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MINER LINE SPARKLES

By J. P. McKeone

Last Saturday, the Miners pushed the Southwest State Bears all over the SMS gridiron, and Ray Parker's 14-yard field goal was the only score in the 3-0 game. The Miners brought home the Powder Keg taken by Springfield last year and stayed hot on the heels of Cape for the MIAA Conference Championship.

The Bears were the third Conference team to fall before the Miner onslaught, the only MSM defeat being at the hands of the Kirksville Bulldogs two weeks ago.

The Miners outgained SMS nearly 6 to 1 in total yardage, the Miners having 190 yards to the Bears' 33 yards. The Springfield eleven were in Miner territory only three times, and the 26 yard stripe was the closest they

came to the MSM goal line.

The lack of yardage gained by the Bears is owed to the Miner line. Leon Calvin, Don Agers, Bob Ingram, Ken Jobe, John Jones and the rest of the linemen showed the Springfield team who was boss. Another laud to the linemen was given by the officials of the game, who said that they had never seen a harder charging line than that of the Miners. These men played a terrific game, and it's about time they got some of the credit due them.

The game was an all around rout, even though the Bear defense held whenever the cards were down. Ed McPherson called 10 plays, and was then knocked out of the game when he tried to go through the Bear line. The Bears were getting the breaks, but the Miners played with no need for them. The first advance

for the Bears was Bill Beydler's fumble early in the second period, giving the Springfield team possession of the ball in Miner territory. The Miner line held though, and soon took over on their own 30. The MSM-Men couldn't gain much ground, though, and Ray Parker kicked for 37 yards to Springfield QB Reuben Berry. Tom Cooper hit Berry hard, right after he caught the ball, and forced him to fumble, Bill Englehardt, hot on Tom's heels, recovered the ball and the Miners took over to start a drive which ended on the SMS one yard line, first and goal to go. The Bears' defense then got their wits about them, and dropped Perry Allison for a 1 yard loss. Ray Parker then tried to go through the line, only to be stopped for no gain. Newt Wells was then thrown for a six yard loss, and Ray Parker was called upon to use his foot. The field goal attempt was just about three

inches wide, and was ruled N. G. The Bears then took over the ball and kept it until nearly half-time. The Miners got in only one play before the gun.

At half-time, the teams were about even in total yardage, with SMS having the edge in yards rushing, 83 to 81, and the Miners leading in the air, 11 to 5 yards.

The second half showed the Miners playing the way they ought. They started their only productive drive from their own 33 early in the third quarter, using on 10 plays to get to the SMS 4 yard line. Included were four successive first down runs, Newt Wells went around right end for 10 yards, Ray Parker went right through the center of the line for 16. Morris Boren and Bill Beydler went through the line for 11 and 14 yards, respectively. A series of very short gains put the Miners on the Springfield 2. A backfield in motion penalty pushed the Miners back to the seven,

and Newt Wells got only three yards on a third-down try. Ray Parker then took over and kicked a Field Goal from about the 12 yard line right between the up-rights. Parker then kicked off to the Bears, received by Berry, and ran back 20 yards. Things looked bad for a few minutes when a beautiful pass play from SMS Quarterback Sam Carter to Jack Halterman accounted for 37 yards. The Miner line then cured the Bruins of taking to the air by throwing the next two attempts for 11 and 12 yard losses. The Miners then took over and drove to the Springfield 20 in only 7 plays, including a 20 yard gain on a pass from Newt Wells to Louis Whitehair and a 14 yarder from Wells to Morris (Continued on page 5)

Prof: "How come you don't laugh at my jokes?"
Student: "I was brought up to respect old age and feebleness."

Sigma Nu Edges Triangle For Swimming Title

Goodwill of Sigma Nu Sets Two Pool Records

Coming into the warm spotlight this week was the swimming meet of the 12th and 11th of November. Quite a few teams were entered and the competition was really rough. Here is a rundown on the final competition winners and their accomplishments:

In the first race—120 yd. medley relay, Triangle with Meda, Derks and Houston, won in 1:17.3. Second was Catron, Götman and Haeke of Kappa Sig, and KA was third.

120 yd. freestyle—Sig Nu won in 1:09.6 with Goodwill swimming. 2nd was R. Smith of the Shamrock Club, and Kappa Sig took third. First, Sigma Nu, Goodwill, second place went to D. Okenfuss of Theta Kap and third place went to Robinson of Lambda Chi.

In the diving class: John Woodward of Sig Ep won with a total of 94 points. Pat O'Mealy of the Engineer was second with 38 points. The rest of the fellows finished in the following order: Glenn Lambkin of Shamrock, Don Ling of the Pikers, Cowdes of Lambda Chi and Stiefeman of Sig Nu.

In the sixty yard freestyle, Smith of the Shamrocks won in 34 seconds over a close McCan of Sig Nu. Sig Ep and Triangle also were in the finals.

The 60 yard backstroke saw Dix of Triangle winning with 41.9 seconds, and Catron of Kappa Sig took second with Theta Kap and KA also in the race. In the 60 yard breast, Lambkin of Shamrock won with 42.8 seconds. Shepard of Sig Pi came in second spot.

In the 120 freestyle relay, McCaw, Broyles, Billchamber and Goodell of Sig Nu won, with Tri-

angle close behind. Kappa Sig and Sig Ep came in a sorry mess.

Here we are deeper into the sport picture, with the line-up of the handball results of the last week. The matches are held in the upper courts of the gym, and provide fast, exciting adventure. If you need some outside interest, get up to the gym and support this sport.

In the handball doubles, Tech Club won over KA, and TKE lost to Beta Sig. Theta Kap took one from Triangle, and Eng. Club won on a bye, while Kappa Sig outmatched the Shamrocks. Moving farther on, Theta Xi lost to the Prospectors. Lambda Chi won over Sig Nu.

Over in the singles divisions, Tech Club won another. This time they defeated KA again. TKP won over Triangle, Wesley lost to Sigma Nu, Theta Xi lost to Eng. Club, and EKE defeated Sig Ep. Pikers over ran the Shamrocks, Kappa Sig defeated the Prospectors, and Beta Sig walked over Lambda Chi, to finish the week.

With the overall completion of the meet, Sigma Nu won the day by taking the title with 21 points in swimming. Triangle was a close second with 19 points and the Shamrocks placed third.

Next week we hope to have the overall totals that we promised last week. The points are adding up and the race to the intramural

title is hard on the way. From here on in the competition will be rough and steady, no breaks will be given. So on into the next week. . . .

MARRIED MAN: One who has two hands with which to steer a car.

DRIVE - IN THEATRE: Where a guy turns off the ignition so he can try out his clutch.

PI: A mathematical expression which can cause mental indigestion.

OLD-TIMER: One who remembers when history was made at half the price it costs today.

TOMORROW: Today's greatest labor-saving device.

PROFESSOR: One who talks in other people's sleep.



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SPRINGFIELD

(Continued from Page 4)

Boren, only to lose the ball on an interception of Newt Wells' pass by Bear Halfback Don Vanaman.

A late march by the Miners was broken up by two illegal procedure penalties, stalling the Miners on the SMS 31, one of which was a pass which was caught by Don Agers, and that was the game.

The final statistics showed that the Bears had a sum total of minus in the second half, again vouching for the Miners' line, while the Miners ran for 118 yards and an additional 59 yards passing.

Missing from the MSM lineup were starters Dale Klohr and Wally Northup, Bill Varga and Ken Boyett. Ed McPherson was hurt in the first three minutes of the game, Varga and Boyett dressed for the game but did not play, and Newt Wells did a spectacular job of taking over Ed McPherson's position as Quarterback.

Rifle Team Meets M. U. Today

The MSM Rifle Team will fire a shoulder-to-shoulder match against the University of Missouri Rifle Team on Friday, November 15th. The match will be fired on the small arms range in the basement of the Military Department Building.

M/Sgt. James E. Roehl, the team Faculty Advisor, will decide which ten of the forty team members will participate in this match, based on scores attained in practice firing.

This match is one of a series between the two teams in preparation for competition by both teams in the National Rifle Association District Matches which will be held next Spring.

This game sets the Miners up for the Championship game with the Cape Girardeau Indians tomorrow. Mid will be over, and tomorrow's game will be a good way to relax and give the shafts a chance to cool off. Let's see YOU out there cheering YOUR team on to the MIAA Championship Trophy.

A. E. Long, M.S.M., Ex '22, Lois S. Long, William S. Jenks, Jr.

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U.S. PATENT NO 2805671



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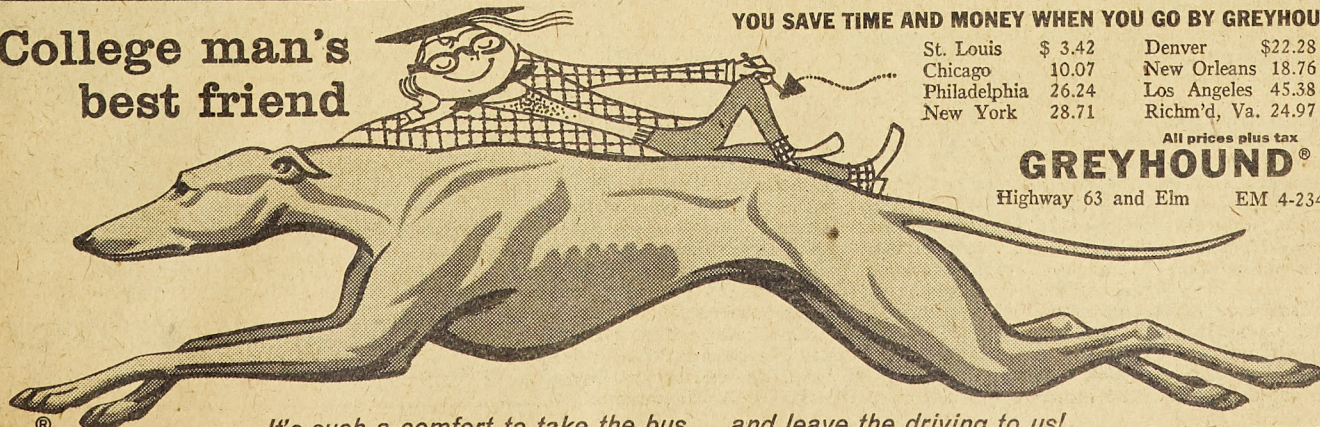
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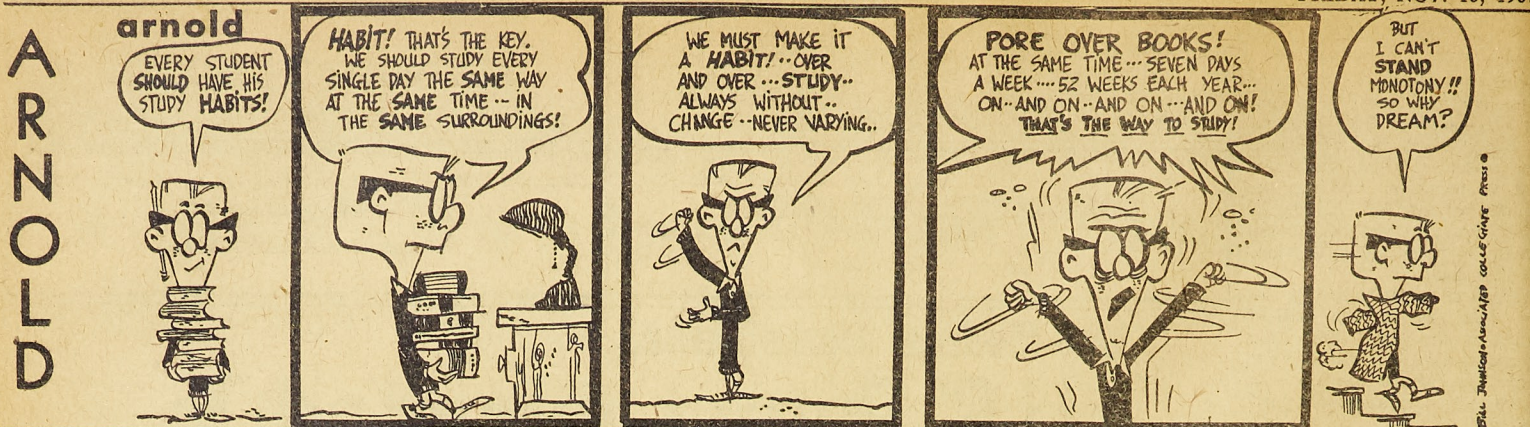
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Fraternity News

TAU KAPPA EPSILON

All that could be seen around TKE House last week were bottles of medicine and red, white, and blue pills. Practically everyone in the house was among the many stampeding toward the infirmary and the groans were loud and not too far apart. About half were actually sick.

Saturday night one of our "sharp" pledges equipped as befits his present status of a Miner and student, with a bottle and T square, was seen heading for St. Louis in search of the ever elusive beanie. We hope he had a pleasant weekend.

In sports, Tekes lost their first games in doubles handball and in basketball while winning in singles handball.

DELTA SIGMA PHI

About the same type of weekend took place around Delta Sig house this time. Some of the men left for home to see their girls while a few others might have spent a little time with their folks.

Our House Manager, Dale Harris cornered the ones that were left down here and we held the usual Saturday morning cleanup. With everyone pitching in, it didn't take long to get the house sparkling again.

At the last meeting we choose a name for our new building deciding to dub it "Nile House." This ties in with the history of Delta Sigma Phi, and we think makes a very satisfactory name. Some other names were suggested to name it after some prominent members such as "Mac's Palace" or "Bowles Palace".

LAMBDA CHI ALPHA

The long awaited mid-term has finally arrived and there is a lot of talk of joining the Army going around the Lambda Chi house. It's not really that bad men you have another half a semester to prove your true worth to the instructors. This has accounted for a rather slow week around the house as everyone has been quite busy getting prepared to snow the instructors.

Everyone took a break long enough to see Lambda Chi get off to a good start in basketball as the round ballers beat Sgi Pi 49 to 24. If the team can keep shooting and rebounding as well as they did Tuesday night this may be Lambda Chi's best year in basketball.

The modern Cassanovas gave the Lindenwood girls a break and a few of the boys with real school spirit went to Springfield to give the team some added support.

Later on in the evening they could have used some of that support.

The Harvest Dance is going to be held this weekend in hopes that the good music and girls will get the boys out of their depressed mid-term mood.

SIGMA PHI EPSILON

Even with the trying tests of mid-semester, there is the hope of a brighter day tomorrow. To make this faint hope a reality, the pledges of Sigma Phi Epsilon have graciously planned their Pledge Dance for the coming weekend. This well organized group has produced many surprises thus far and therefore the active chapter is eagerly awaiting the entertainment that is in store. In preparation for the Dance, the house underwent a thorough cleaning this weekend with each man doing his share.

On the sports front the basketball team fought its way to a victory over TKE. The swimming team has been working out for the coming meet.

Meanwhile, back at the ranch, Brother Joe Holeman has become engaged to Miss Phyllis Snyder.

BETA SIGMA PSI

Congratulations are due Jerry Grommet, who was initiated two weeks ago. Now that he's got a pin he doesn't know what to do with it.

The yo-yo's are settled after a mass migration last weekend. These mixers seem to agree with some of the pledges, right John.

Our deer hunters weren't successful in getting any deer, but they did manage to come back without mishap, which is an accomplishment these days. Well, there are still plenty of rabbits.

Two additional phones have been installed, giving no excuse for the pledges to let it ring too often.

TRIANGLE

Last week at the "Rock House" was quite an interesting one. To start it off the "roundballers" took a game from the Sigma Nu's Monday night and then on Sat. night we won a lopsided victory over Dorm. "A" 88-8. Lets' keep up the good work men.

On Wed. of last week we received our new Hi-Fi and piano which our Mothers Club purchased for us. We are indeed fortunate to have such a splendid organization as this at our fingertips. Also a tip of the hat to Brother Aubuchon for his work in acquiring these.

Well, this "red hot" town of Rolla finally got the best of the

boys and on the Fri. and Sat. it found quite a few taking to the greener pasture's - Lindenwood and Webster. Well, on Sun. they came back refreshed, relaxed and ready to face the evils of "mid".

That is everyone but "Hugh" who is still in second heaven.

Well next week I'll have the "terrible" news of "mid" and I hope the good news of a championship for our swimmers.

KAPPA ALPHA

One of the bright spots of the last week was the Pledge-Active football game which was played Saturday afternoon. After the game a tea party (K.O.) was held in the basement of the KA House.

Much to the disappointment of the Pledges, the Actives "Whupped Us" 32 to 13, but we gave them a couple of fair ones, from our hard hitting line, in the process. Ours is sweet, the wine of revenge, ACTIVES BEWARE. Some of the members of Kappa Alpha attended the Lindenwood Mixer Saturday night after our party.

Progress marched on as Active and Pledge alike worked to re-finish the Annex steps, under the able supervision of Ube "I can fix anything" Sfreddo.

Only 11 more days till Thanksgiving, the day long awaited. Until then,

SIGMA TAU GAMMA

The whole Sig Tau Manor is planning and figuring on a new remodeling venture to increase our housing capacity.

Everyone is eagerly awaiting next weekend which is our annual "White Rose Formal". The place and time are set. All we need, now, is the skirts.

It seems that the pledges pulled a good one last Monday night. While everyone was in chapter meeting, they quietly went upstairs and stole twelve bed slats. It cannot be said that the actives stood for this; the "bad" pledges slept without their bed slats the rest of the week. That'll be the day, when the pledges stomp the actives.

PI KAPPA ALPHA

For the past few days, AK chapter has been honored by a visit from our National Housing Coordinator, Dave Abernathy. After an inspiring talk concerning the growth of PiKA as a national fraternity, Dave launched a detailed study of the progress made here for the mutually beneficial comparison of ours with other chapter frameworks.

Scandal section: This is directed to Kay Bumps. Roger studied physics this weekend by observing the flow of a liquid through an ori-

fice while deer hunting at the hot spots around Stanton, Mo.

Six PiKAs Bill Fesler, Dale Strub, Les Winter, Roger Bren-decke, Don Link, and John Cleary were initiated into Tau Beta Pi last Sunday.

SIGMA NU

The annual Memorial Service of Gamma Xi Chapter of Sigma Nu took place November 10. The service, which was held in Christ Episcopal Church located across the street from the chapter house and annex, is a yearly tribute to the deceased brothers of this chapter.

Congratulations go to the swimming team for the fine job they did in the intramural meet earlier this week.

In other intramural sports the handball and basketball teams are still contending for the top positions in those sports.

KAPPA SIGMA

The main activities of the chapter were focused at Springfield where many of the actives and pledges went to watch the S. M. S. - Miner football game and to participate in a blast Saturday night.

Basketball and handball got off

to an auspicious start last week as the basketball team won their first game and Bob Hoffman and Dick Baruch won their opening game in handball doubles. We hope to continue in a successful vein in these sports and improve upon our standing of fifth place.

THETA KAPPA PHI

The big word around the Theta Kap House this week was "mid-semester". But now that the exams are over and grades are about to be posted, sighs of relief (?) can be heard among the men. However, wait until we see our marks!!

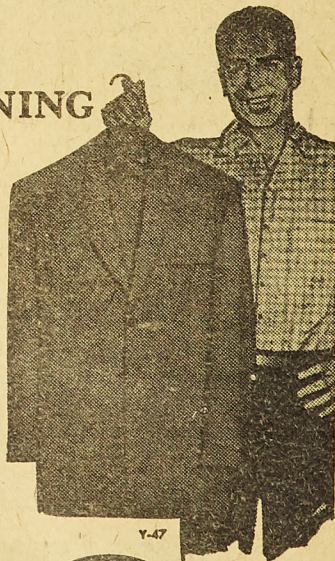
At the half-way spot in the semester, the Theta Kaps are holding a slim lead in the intramural race. But our teams have been outstanding so far and certainly deserved a vote of thanks from the active chapter for their fine playing. Last Monday and Tuesday, the swimming team competed in the annual intramural swimming meet. Our thanks to the team for their good showing. Also, the basketball team is getting the range after a few tough breaks in the beginning. Handball competition has begun with Bill Lueb-ber playing singles and Warren Carroll and Dave Burke playing doubles.

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EM 4-2830

INDEPENDENTS

The Independents Organization will hold its November meeting this Monday, November 18, at 7:00 in G-6, New Chem Building. An enjoyable meeting is scheduled and all members should have time to attend now that mid's are over.

Plans will be underway for the Christmas Dance coming up next month. Again, door prizes will be given out and a full-length feature movie will be shown. The film will be the amusing "Has Anybody Seen My Gal?" with Piper Laurie and Rock Hudson.

Joe Zwart has been appointed Intramural Manager for the Independents. He has organized a small, but hard fighting and desiring to play handball or any other intramural sport is urged to contact Joe Zwart at EMerson 4-4355.

... and don't forget the GDI meeting Monday night.

Prospectors Club

A large amount of thanks goes to Bill Jones and Eugene Stefens. Their fine showing in tennis brought the Prospectors Club a place among the top ten in that sport.

Next week the big moving operation begins and everyone will be kept quite busy around here. The following boys will join the Prospectors Club effective Dec. 1: Richard Barr, Jim Callison, Max Cope, Lyle Creason, Richard Crockford, Ken Davidson, Ken DeFord, Richard Dodson, Doyle Edwards, Iver Folstad, Dave Griffin, Mel Ingram, John Lance, Leo Langford, Frank Lewis, Norm Lindsey, Gerald McHaffie, Joe Miller, Tom Papin, Enrico Parisi, Brooks Sharp, Jim Southern, N. A. Spitzer, Jim Staley, Bill Statler, John Taylor, Donald Thoms, Donald Traube, Terry Turner, George Uding and Darrell Weible.

If any of these boys have not yet contacted the Club officers they are requested to do so as soon as possible.

Wedding Ring

The MSM stork was especially busy delivering three babies to two couples. On Hallowe'en, Mr. and Mrs. Tom Craddy were "treated" to a real live, little-boy "punkin'," and on November 3rd twins—boy and girl—were born to Mr. and Mrs. Fred Hallerman.

Among the new babies of Dames' and Miners' are two little girls born on November 4. Their parents are, respectively, Mr. and Mrs. Carl Williams and Mr. and Mrs. Charles Green.

Mr. William Jensen of the Physics Department presented

the program at Dames' meeting last Thursday evening. His topic concerned radio-active fallout.

Carol Baker (Mrs. Charles R.), chairman of the Arts and Crafts interest group of Dames tells me a meeting was held the evening of November 6 in Room 106 of the Mining Building. The materials for the leathercraft project had arrived and everyone started work on her billfold, hand-bag, or other article.

That's all this week. . . . Diane.

Tech Club

The Tech Club held a meeting last Monday night at which plans were made for their annual banquet. This year the banquet will be held on Thursday, December 19.

The Tech Club got off to a good start in Intramural Basketball by defeating Theta Kappa Phi, 36-20. They slaughtered a

Theta Xi squad, 48-10, Friday night in a game where the entire squad and even a couple of extras got to play. Consequently, hopes are high for a great season for the Club in Basketball.

We drew two "bys" in handball, so the Tech Club has not yet got into the competition.

A Board of Controls meeting was held last Thursday. As a result a few items were added to the menu and new toasters were ordered.

GAMMA DELTA

Alpha Phi Chapter of Gamma Delta held its first regular meet-

Yesser it's
LESSER
COLD BEER

ing of this month on Sunday evening November 10.

Following the cost supper, our business meeting was held, in which our pledges were elected into active membership. We at Gamma Delta are happy to welcome the following twenty-five men into membership: Bob Hecht, Ray Popp, Bob Roussin, Jerry Rullkoe, Rich Schrieber, Wayne Sienennop, Jon Steinbach, John Adams, Arnold Schulze, Sidney

Green, Herbert Loebs, Chester Kuhlman, Cleon Gilberg, Rich Meyer, Michael Maksymicz, Douglas Froemsdorf, Wayne Sievers, Jerry Vie, David Sandler, Robert Wolf, Alan Schaffer, Roger Billen, Ralph Luebke, Gary Hoech, and James Klipp. The meeting was adjourned following a discussion, which was led by Ray Fiehler, on the topic "Billy Graham Evangelist".

RAMEY'S BAR

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JOB FACTS FROM DU PONT



BETTER THINGS FOR BETTER LIVING
THROUGH CHEMISTRY

OPPORTUNITIES AT DU PONT CONTINUE TO GROW FOR ALL KINDS OF ENGINEERS AND SCIENTISTS

WHERE DO YOU WANT TO WORK?

by
F. L. Johns
Du Pont
Representative



I wouldn't be entirely realistic if I said that you can choose your job location from Du Pont's 75 plants and 98 laboratories scattered over 26 states. But Du Pont does have jobs open in many of these locations, so there is a good chance that we may be able to match your preferences and qualifications with available openings.

Right now, most of the Du Pont units are east of the Mississippi, but we have plants in Texas and on the Pacific Coast, too. In the past year plants were completed in Michigan, California, Ohio and Georgia. New plants are also under construction in Kansas, Tennessee, Virginia and North Carolina. Perhaps one of these locations has just what you're looking for in a job.

For a complete list of our plant locations, please write to me at E. I. du Pont de Nemours & Co. (Inc.), 2494-B Nemours Building, Wilmington 98, Del.

Career opportunities at Du Pont are greater today than ever before because of the Company's continued growth. In 1957, Du Pont's sales were at the \$2 billion level. Four new plants were being built. New research programs were being launched, and new products were moving into the production and marketing stages. All of these developments tend to broaden opportunities at Du Pont for the young scientist and engineer.

ALL KINDS OF ENGINEERS

Students with chemical engineering and chemistry degrees are needed, of course. But the opportunities are equally great for students majoring in many other fields. And the type of work for these men varies greatly. Among other things:

Mechanical engineers work in re-

search and development as well as in plant engineering and production supervision.

Metallurgical engineers conduct studies in metal fatigue and corrosion and engage in fundamental research into the nature and properties of elements.

Civil engineers have many assignments, including design and supervision of the construction of Du Pont plants and laboratories.

Men studying for degrees in electrical, mining, petroleum, industrial and many other specialized fields of engineering will find equally challenging outlets for their talents at Du Pont.

If you're interested in finding full scope for your ability, Du Pont offers you plenty of opportunity.

Du Pont Training Tailored to Individual

Each of Du Pont's operating departments has its own training program because each has special requirements. But both formal and informal programs are tailored to the interests and needs of the individual.

Generally, you go to work on an assignment at once and start learning right away. This headstart on responsibility is an important factor in your progress. Based on your qualifications, you're given one segment of a project to tackle almost immediately. You learn quickly and informally in consultation with your supervisor and other engineers on the same project. This training is supplemented by frequent meetings, seminars, studies of plant operations and procedures.

And since Du Pont is interested in the progress of the individual, your

performance is evaluated at regular intervals by your supervisor. These discussions bring out your strong and weak points and together you work out a program for improvement. This training and evaluation continues year after year as you advance in the Company.

SEND FOR INFORMATION BOOKLET

Booklets on jobs at Du Pont are yours for the asking. Subjects include: mechanical, civil, metallurgical, chemical, electrical, instrumentation and industrial engineers at Du Pont; atomic energy, technical sales, research and development. Name the subject that interests you in a letter to Du Pont, 2494-B Nemours Building, Wilmington 98, Del.

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LAUNDRY

CLEANERS

EM 4-2830

Engineers Form Unions To Halt Status Slump

Reprinted from The Technology News of Illinois Institute of Technology.

Graduating engineers are oblivious to the field that they are to enter. Disappointment and dissatisfaction has shown itself in the form of the engineering union.

Between 10 to 15 per cent of professional engineers in salaried employment are members of engineering unions. The movement of unionism among engineers and scientists had its birth only about fifteen years ago, to increase the economic and professional status of engineers.

The question of unionism of the engineers is one that is clouded by the nature of engineering work. That is, there is such a wide breadth of functions handled by engineers that accurate classification is often the most difficult part of the problem.

It is conceded by both sides that an engineer that has individual bargaining with a company has an ideal position. This type of "ideal" arrangement is common in smaller companies where the engineer retains much of the management status of a professional man. In these cases, the question of unionism versus professionalism does not exist.

The union movement for engineers was greatly accelerated if not directly caused by enlarging of engineering staffs. In a large office the engineer complains that privileges and prerogatives of their profession are gone. Once on the job, they become a number on an IBM card rather than a name.

Engineers claim that they need unions for collective bargaining purposes to attain higher salaries. With the exception of the salaries of the new graduate engineers' pay has not kept pace with other fields.

Collective bargaining is the only answer for engineers of large companies because professional societies lack contact and control with the distinct problems of all its engineering members.

The Engineers and Scientists of

A Nutty Combination

A college boy is laziness with peach fuzz on its face, idiocracy with lanolin on its hair, and the "Hope of the Future" with an overdrawn bank book in its pocket.

A college boy likes good liquor, bad liquor, cancelled classes, double features, Playtex ads, and girls on football weekends. He is not much for hopeful mothers, irate fathers, sharp-eyed ushers, campus guards, alarm clocks, or letters from the dean.

A college boy is a magical creature—you can lock him out of your heart, but not out of your bank account. You can get him off your expense account. He is a no-account girl-chasing bundle of worry. But when you come home at night with only the shattered pieces of hope and dreams, he can make them seem mightily insignificant with four magic words—"I flunked out, Dad!"

America, the ESA, is actively campaigning for raises in professional and economic status of engineers. In the list of objectives that they seek to accomplish the ESA uses the word "encourage." The word "encourage" is significant, since the ESA hesitates to be classified as a strong arm type of industrial-trade union.

They seek to encourage employers to develop methods so that an engineer does not have to waste his time doing non-engineering work. They seek a merit raise system. They seek to encourage a company structure where an engineer, who would prefer to stay in technical work, would not have to do so at a loss of pay.

All factors indicate the unions will continue as long as engineers are employed in herds, unless management reappraises its ob-

jectives toward the engineer. Until then, unions will be the only means that the engineer will have to bargain.

It is well to remember that the desired attainment and retention of professional status still lies on the shoulders of the individual engineer, but in many cases, the strength of a union is the only means capable of obtaining status.

LIVING IT UP . . .

As I sat musing
Alone and melancholy
And without a friend,
There came a voice out of the gloom
Saying, Cheer up,
Things might be worse
So I cheered up,
And sure enough—
Things got worse.

Pershing Rifles to Sponsor Military Ball Queen

This year Co. K-7, Pershing Rifles will sponsor a candidate for Military Ball Queen. This young lady will not only be our candidate for Queen, but also be our Honorary Company Commander.

When we found out that the boys were going with some real good looking girls, the staff decided that the wealth must be shared. Therefore we have set up a committee to accept all the eager applications, organize the statistics, and to present them to our three judges. The judges are Col. Rall, Prof. Lloyd, Dean Gevecker. I'm sure the men will be fair, but from a sneak preview I'd say that the choosing will be mighty rough.

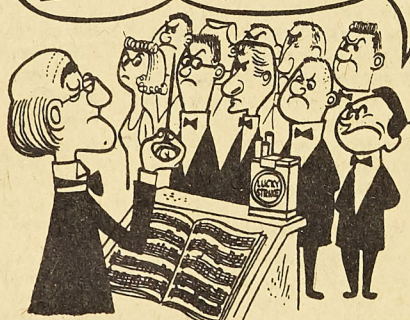
The young lady who is chosen will be "commissioned" at the P. R. banquet which is to be held in the banquet room of the Edwin Long Hotel, on December 14th. Her duties as Honorary Company Commander will require her to attend all official Company formations. These include P. R. Regi-

mental Inspection, all parades, all drill meets which we attend and possibly the Regimental Assembly.

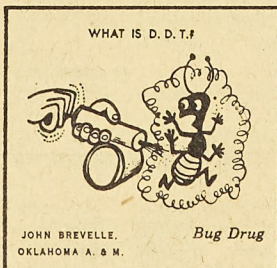
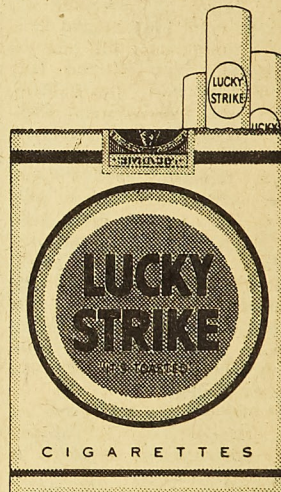
This past week the P.R.'s had their Pledge Week. It started Tuesday morning and will end some time tomorrow night. Each pledge is required to have the signature of every active P.R. on his Pledge Plaque. To obtain a signature the pledge must be in uniform and must know the General Orders, history of the organization, and some "sayings". Saturday afternoon they will be drilled and sent out on a tactical problem. This problem consists of taking a position which is held by the actives who are well armed with M-1's, a machine gun, and plenty of blank ammunition. To keep the problem from being one-sided the pledges will also have M-1's and blank ammunition. After the actives have repelled the pledges with high "casualties" inflicted on them we will nurse their wounds at a well deserved tea party.

Sticklers!

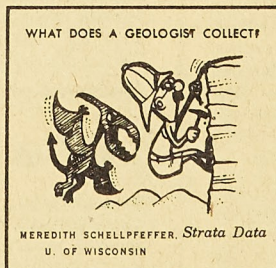
WHAT'S THE RESULT OF
A GLEE CLUB REHEARSAL
WITHOUT A LUCKY BREAK?
(SEE PARAGRAPH AT RIGHT)



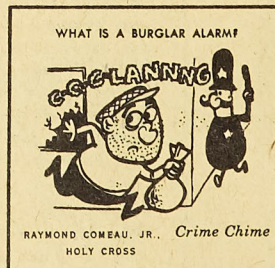
MUSIC MAJORS! Know how to change a glee club from a loud crowd to a lyrical miracle? Simple: just promise 'em a Lucky break! A Lucky's a light smoke—the right smoke—for anyone. It's all cigarette—all fine tobacco! And that naturally light, wonderfully good-tasting tobacco is toasted to taste even better. Hold your rehearsal without a Lucky break, and you'll get nothing but *Choir Ire!* Chorus: Light up a light smoke . . . a Lucky Strike!



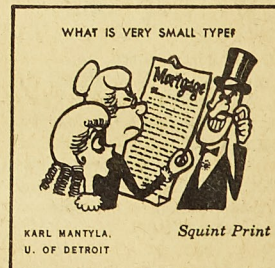
JOHN BREVILLE.
OKLAHOMA A. & M. Bug Drug



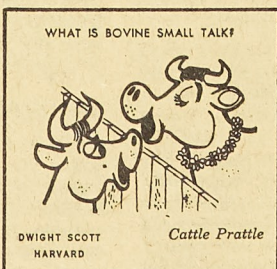
MEREDITH SCHELLPFEFFER, Strata Data
U. OF WISCONSIN



RAYMOND COMEAU, JR., Crime Chime
HOLY CROSS



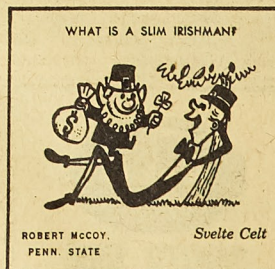
KARL MANTYLA, Squint Print
U. OF DETROIT



DWIGHT SCOTT, Cattle Prattle
HARVARD



Sticklers are simple riddles with two-word rhyming answers. Both words must have the same number of syllables. (No drawings, please!) We'll shell out \$25 for all we use—and for hundreds that never see print. So send stacks of 'em with your name, address, college and class to Happy-Joe-Lucky, Box 67A, Mount Vernon, N. Y.



ROBERT MCCOY, Svelte Celt
PENN. STATE

LIGHT UP A *light* SMOKE - LIGHT UP A LUCKY!

(© A. T. Co.)

Product of The American Tobacco Company—"Tobacco is our middle name"

A Debate

Is There Really a Dire Shortage of Engineers And Scientists?

Since the end of World War II the American public has heard numerous reports indicating that a shortage of scientists and engineers exists.

Lately there have been reports suggesting that the really isn't any shortage and that perhaps our children are being black-jacked into scientific careers.

The Manufacturing Chemists' Association has reviewed about everything of consequence published on the subject in the last year. We have studied reports and statements and met with interested authorities in education, business and government. We would like to give you our latest estimate of the situation and a few conclusions that, to us, seem incapable.

THE ESTIMATE

... The U. S. Office of Education has reviewed the engineer supply and demand picture 1955-1965 and, based on anticipated increases in the Gross National Product, concludes that we will have a shortage of 8,000 engineers per year for the next ten years. This is anticipated despite an annual increase in the number of engineer graduates.

... The American Society of Engineering Education tells us that over the next ten years the number of chemical, metallurgical and petroleum engineering teachers at the college level must show increases ranging from 53 to 78 per cent in order to take care of the anticipated number of students. The shortage in this area is already being felt. According to ASEE, in the 1956-1957 academic year eight per cent of budgeted engineering faculty posts were unfilled.

AEC REPORT

Add to this recent reports of the Atomic Energy Commission, the Scientific Manpower Commission, the National Education Association and the Engineering Manpower Commission, to say nothing of comments by individual business and industry leaders, and it would appear that the shortage of engineers and scientists is no mirage.

One might say, "All right, but I don't get it. If the number of engineers and scientists is actually rising each year, how is it we face a continued shortage?"

THREE REASONS

There are three reasons:

1. The rapid development of our body of technology and our steadily increasing industrialization over the last 50 years has outstripped our development of human resources—the technical manpower needed to run and help expand our industrial machine.
2. Our population increases in the recent past, plus anticipated short term increases (200 million by 1975), plus our demand for a continually higher level of living,

require a steady increase in industrial growth (now averaging about four per cent per year). More technology means more technologists!

3. Although we now face no genuinely critical shortage of raw materials, we must plan for the

day when we will have to do more with less—or find substitutes. This whole effort is a scientific one. For this we need slide-rules, not shovels!

THE NEED

We need more technologists in the work force. We need more science teachers at all levels. We need more physical facilities, school buildings, laboratories. One step below the professional level, we need more skilled technicians. Also, we have to make sure we fully utilize the scientists and engineers we now have.

If we don't do all these things our economy cannot advance at its present rate. In fact, our in-

dustrial progress will be slowed and our ability to prevent war reduced.

Cap'n Dick

(Continued from Page 2)

result of directing the coal directly into direct hydrogenization."

"Powdered coal is used as an abrasive to get rid of fly ash (secretaria of Diplodoptera)."

"Our Pioneers let the gases out, otherwise known as cutting the cheese."

"Lenin was a coal retort."

"If you can kill yourself in a coal mine, you make great news copy, but if you just get trapped a few days you may even make

Mad Magazine."

Hey, someone is throwing rocks. Time to bug out the back door to be seen no more. Bax and Mox Nix.

"Yes," said the doctor, "I'm convinced that it's some chronic evil that has deprived you of health and happiness."

"Ssssh! For heaven's sake, speak softly; she's waiting outside for me now."

Every school kid now knows where the capital of the United States is. It's in gifts and loans all over the world.

Where do you fit in?

Degree or Major	Construction, Installation, Maintenance	Manufacturing Operations	Planning of Operations, Projects, Systems	Technical Assistance to Armed Forces	Development Design	Research	Office Administration	Sales, Customer Contacts
ENGINEERING		W			W			
Chemical		W			W			
Civil	T		T					
Electrical	TW	W	TWBS	WS	WBS	BS		T
Industrial	TW	W	TWS		W		T	T
Mechanical	TW	W	TWBS	S	WBS	BS		
Agricultural and Other Fields	T	W	TW		W			
PHYSICAL SCIENCES			T		B	BS		
Mathematics								
Physics	T	W	TW	W	WB	BS		

LEGEND

T BELL TELEPHONE COMPANY AND AMERICAN TEL. & TEL. CO., LONG LINES DEPT.

W WESTERN ELECTRIC COMPANY

B BELL TELEPHONE LABORATORIES

S SANDIA CORPORATION

NOTE: Advanced as well as baccalaureate training is particularly valuable in research and development work in the Bell Telephone Laboratories, Sandia Corporation and Western Electric. Advanced training is often useful but is less important in other areas of work.

The chart above shows where your college education may best fit into the Bell Telephone System and where your interest in particular types of work may best be satisfied. You can choose from many jobs in the Bell Telephone Companies, the operating units of the Bell System... the Bell Telephone Laboratories which is engaged in both civil and military communication research... the Sandia Corporation which develops atomic weapons and the Western Electric Company, the manufacturing arm of the Bell System.

Bell System Offers Wide Range of Job Opportunities

There's a wide range of jobs in the Bell System for men with college training in many fields, and with different personal interests.

The diversity in Bell System work makes it possible to offer opportunities in management, engineering and research in the fields of communications, manufacturing, atomic and military ordnance developments, and basic sciences.

OPPORTUNITY FOR ADVANCEMENT

Your chances for advancement in the Bell System are excellent.

Here are four reasons why:

There is a long-established policy of promotion from within the business.

The Bell System is decentralized. Each Bell Company is fully responsible for its own operations and the delegation of authority to small operating units offers the able man early opportunity to show what he can do in responsible jobs.

The System is rapidly and continually growing. During the past ten years the Bell System has doubled in size.

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Interviews Nov. 19, 20, 21 for Students

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Skilled Technical Men To Receive Exceptional Offer From Army

The Army is offering an exceptional opportunity to men skilled in research, in science and in technical operations.

Increased emphasis on missile research and development, and accelerated programs in other fascinating realms of military research and production, have expanded the number of openings available to the technicians, the engineer, the scientist, the research explorer.

Accepted applicants are appointed to the Army's officer corps, and have all the opportunities for individual advancement, positions of leadership, and the prestige which the officer corps provides.

Those chosen for commissions are entitled to all rights, benefits, and responsibilities, of the Regular Army Officer.

They will have opportunity, through further study and research, to make the widest possible use of their knowledge and ability for the good of our country.

As specialists in their chosen scientific and technological fields, they have at their disposal the laboratories and special installa-

tions. Nowhere else could some of these facilities, materials and tools be had.

Major groups from which the Army anticipates candidates are the graduate students in colleges and universities; officers in the military Reserve components; and specialists in industry and government.

Especially needed are individuals who have a doctor's degree; those who have a master's degree and three years or more of experience, or a bachelor's degree and five or more years experience. Qualified applicants need not have had any prior military experience. They must be citizens of the United States and able to complete 20 years service before reaching age 55.

Interested candidates desiring

further details may obtain them on inquiry to: The Adjutant General, Fifth U. S. Army Headquarters, 1660 East Hyde Park Boulevard, Chicago 15, Illinois; or to The Adjutant General, Department of the Army, Washington 25, D. C., Attn: AGPB-A.

Vet: I did a lot of shooting while I was in the army. One night I won fifty bucks.

Prof: I won't start this lecture until the room settles down.

Stude: Go home and sleep it off, old man.

Miner about a favorite prof: I'm not saying he's got big ears but from the front he looks like a loving cup.

The world is not perfectly round. (for the benefit of the Frosh.)

"M" is an abbreviation for MINDS?

Miner, 1957 style: Boy this place is crowded. The only place you can get a seat is in the rest rooms.



Look at what us Civil Engineers pump through pipes.

UPTOWN THEATRE
MOVIES IN CINEMASCOPE
Friday and Saturday, Nov. 15-16

'Fury at Showdown'

John Derek and Carolyn Craig

Sunday, Monday and Tuesday,
Nov. 17-18-19
Sunday Continuous from 1 p. m.

'Desk Set'

Spencer Tracy and
Katharine Hepburn

Wednesday, November 20
ST. PAT'S BENEFIT SHOW

'Attack'

Jack Palance and Eddie Albert

RITZ THEATRE
MOVIES ON WIDE SCREEN
Friday and Saturday, Nov. 15-16
Saturday Continuous from 1 p.m.

Toward the Unknown

William Holden and Lloyd Nolan
— PLUS —

'Gun Brothers'

Buster Crabbe and Ann Robinson

Sunday, Monday and Tuesday,
Nov. 17-18-19
Sunday Continuous from 1 p. m.

Curse of Frankenstein

Peter Cushing, Christopher Lee
— PLUS —

'X . . . The Unknown'

Dean Jagger

Wednesday-Thursday, Nov. 20-21

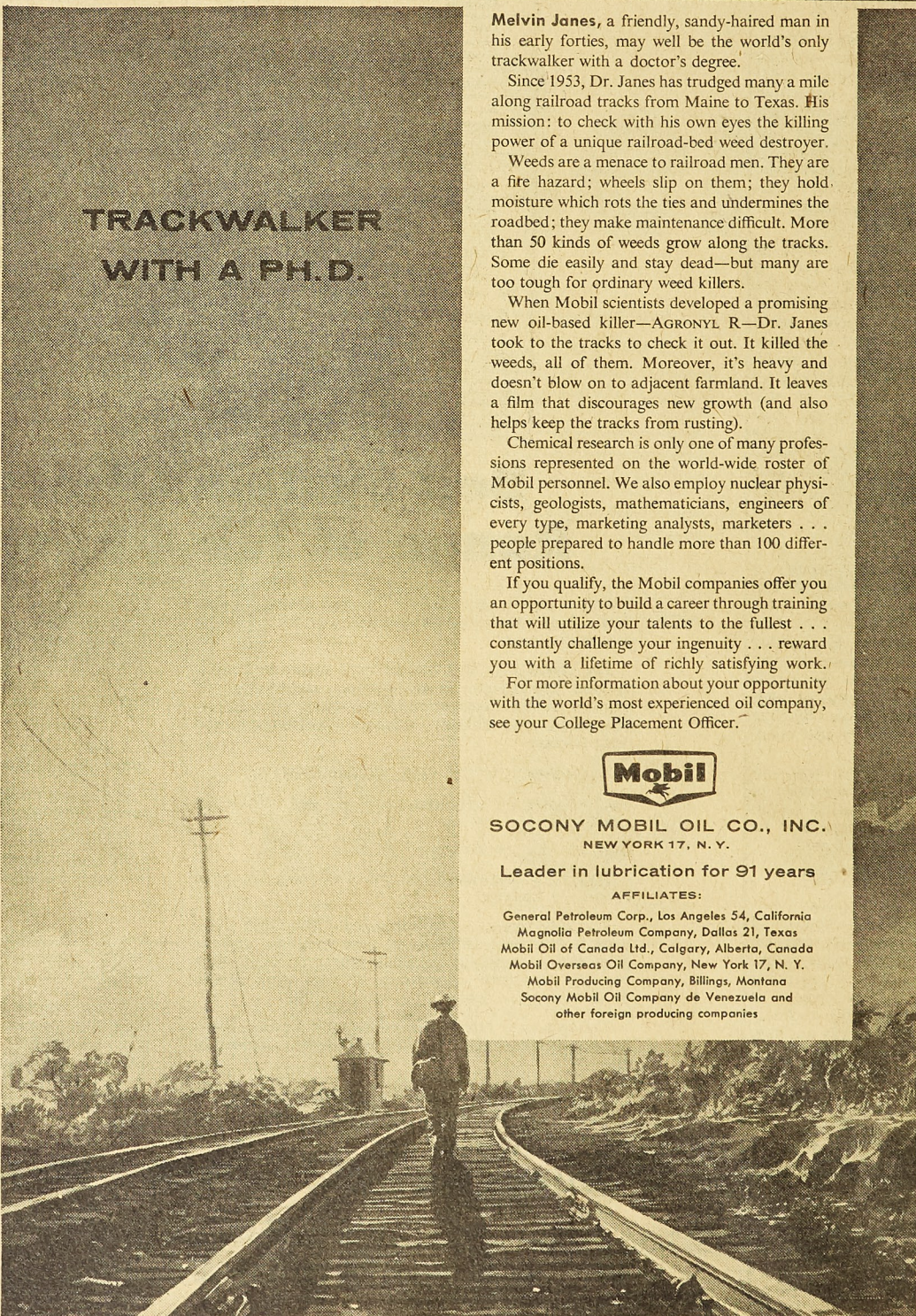
'Edge of the City'

John Cassavetes, Sidney Poitier
— PLUS —

'Abandon Ship'

Tyrone Power and Mai Zetterling

TRACKWALKER WITH A PH.D.



Melvin Jones, a friendly, sandy-haired man in his early forties, may well be the world's only trackwalker with a doctor's degree.

Since 1953, Dr. Jones has trudged many a mile along railroad tracks from Maine to Texas. His mission: to check with his own eyes the killing power of a unique railroad-bed weed destroyer.

Weeds are a menace to railroad men. They are a fire hazard; wheels slip on them; they hold moisture which rots the ties and undermines the roadbed; they make maintenance difficult. More than 50 kinds of weeds grow along the tracks. Some die easily and stay dead—but many are too tough for ordinary weed killers.

When Mobil scientists developed a promising new oil-based killer—AGRONYL R—Dr. Jones took to the tracks to check it out. It killed the weeds, all of them. Moreover, it's heavy and doesn't blow on to adjacent farmland. It leaves a film that discourages new growth (and also helps keep the tracks from rusting).

Chemical research is only one of many professions represented on the world-wide roster of Mobil personnel. We also employ nuclear physicists, geologists, mathematicians, engineers of every type, marketing analysts, marketers . . . people prepared to handle more than 100 different positions.

If you qualify, the Mobil companies offer you an opportunity to build a career through training that will utilize your talents to the fullest . . . constantly challenge your ingenuity . . . reward you with a lifetime of richly satisfying work.

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