



10 May 1957

The Missouri Miner, May 10, 1957

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THE MISSOURI MINER

VOLUME 43

ROLLA, MO., FRIDAY, MAY 10, 1957

NUMBER 27

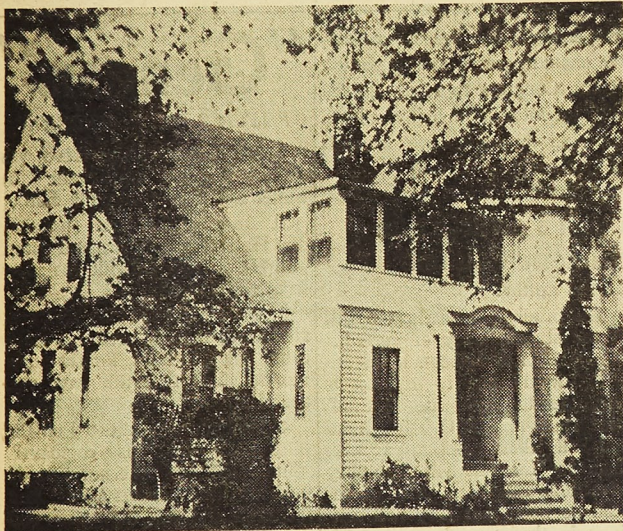
Sigma Phi Epsilon Buys New Fraternity House

Sigma Phi Epsilon here on the campus at MSM has a new house. On Saturday, April 13, it was announced by the Missouri Gamma Alumni Board of Sigma Phi Epsilon that the deal for the white frame house at 500 W. Eighth Street was clinched.

The house has 17 rooms, and with its very large three-car garage should be able to sleep 40 or

lawn is well covered with grass. Around the property is a superabundance of fine shade trees.

State Street, the unofficial fraternity row of this campus, runs just a half block away from the new Sig Ep house. The Cow House of Theta Kappa Phi is just about a half a block away on State Street and the great stone face of Triangle's house is



more men upon some re-arrangement and alterations. In addition it should be able to feed much more than that amount and provide plenty of room for social functions and chapter business.

The house rests upon a full quarter block of property. The yard has been well taken care of with plenty of flowers growing in front and a white board fence running around the back. The

just around the corner. The southern end of campus is just three blocks away, as is the heart of downtown Rolla.

Sigma Phi Epsilon came to Missouri School of Mines in May of 1947 and from the very beginning lived in the 13-room house at 401 E. Seventh Street. Now, after years of effort, the fraternity has a house close to campus. By tradition, the front doors of all Sig Ep houses are painted red. Sig Eps here at the School of Mines have said they are going to be really happy when they can paint the front door of this new house red, too.

Stan Moore

Civil Service Commission To Give Exams. for Many Jobs

The United States Civil Service Commission has announced an examination for Engineering Aid, Mathematics Aid, Physical Science Aid, Engineering Technician and Physical Science Technician. The entrance salaries range from \$3,175 to \$5,440 a year.

Appropriate experience or education, or a combination of education and experience is required. No written test will be given.

Further information and application forms may be obtained at many postoffices throughout the country or from the U. S. Civil Service Commission, Washington 25, D. C. Applications will be accepted by the U. S. Civil Service Commission in Washington until further notice.

Dr. B. A. Rogers Speaks on Production Of Uranium-Thorium

A series of lectures for students and faculty was given by Dr. B. A. Rogers of the Institute for Atomic Research on Monday and Tuesday, April 29 and 30. These lectures are sponsored by the American Society for Metals, which provides the financial support and permits the school to invite some prominent metallurgist to come to the campus; this was the fifth annual series in the ASM lectures.

Dr. B. A. Rogers for the past nine years has been Senior Metallurgist at the Institute for Atomic Research at Ames, Iowa, where he has been intimately connected with work on the production and properties of metals used for atomic energy purposes. Dr. Rogers is a graduate of Iowa State College and has a Ph.D. in Physics and Metallurgy from Harvard University. He was employed for a number of years at the Western Electric Company

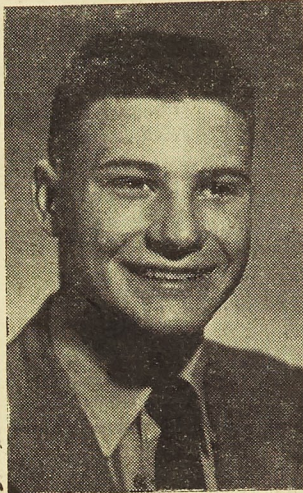
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Konrad and Urban Head '57 Rollamo

In the general staff elections last Thursday night of the Rollamo Board, Richard J. Konrad was elected as Editor for the coming year.

Rich is Vice-President of Theta Kappa Phi Fraternity, President of Alpha Phi Omega, Secretary of Blue Key, Vice-President of the Newman Club, Secretary of the AIEE, and a member of Eta

Treasurer of the St. Pat's Board and a graduate of Affton High School in Affton, Mo. For the



RICH KONRAD

Kappa Nu Honor Fraternity. He hails from St. Louis, Mo., where he graduated from St. Marys High School. During his three years at MSM Rich has served on the yearbook staff as Sports Editor and Literary Editor.

Re-elected to the position of Business Manager was James Urban. Jim is a member of Pi Kappa Alpha Fraternity in which he served as Treasurer. He is



JIM URBAN

past year Jim has done a very creditable job and the Rollamo Board is very fortunate to have a man of his caliber around for another year.

Returning to the post of Associate Editor will be Dick Ross. Brank Bender will be the new Sports Editor; Bill Fessler, Classes Editor; Lou Rephlo, Literary Editor; for the coming year.

For the past two years the Rollamo has received National First Class Honors from Associated Collegiate Press, and under the leadership of Editor Konrad will be striving to make it three years in a row.

Eighty Die From Speed and Drink in First Quarter of Year

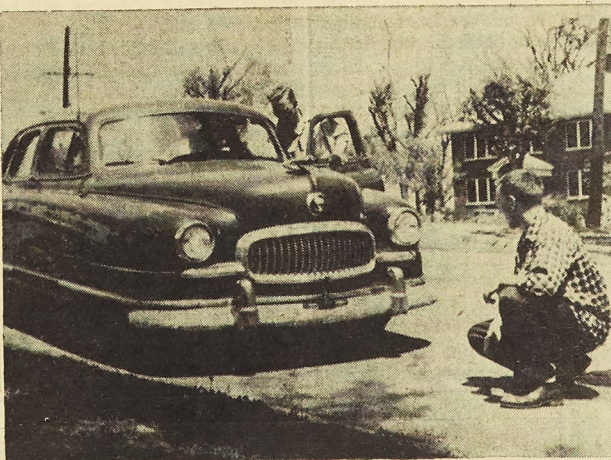
The throttle and the bottle remained arch-villains in the Missouri Highway Patrol's fatality record for the first quarter of the year.

According to Patrol records, more than 80 drivers died on the highways during the first three months because their autos ran off the roadway.

Colonel Hugh H. Waggoner, Superintendent of the Patrol, said speed, inattention and drinking were probably the biggest factors in the 80 deaths. A total of 209 persons lost their lives during the period.

The Patrol chief said that in the past, "ran-off-road" type of accidents have accounted for about one-third of the highways fatalities. In a majority of these

(Continued on Page 10)



The Auto Safety Check is being held this year again under the sponsorship of the MSM chapter of the Society of Automotive Engineers and the Rolla Kiwanis Club. Members of the S. A. E. are shown inspecting a car at the checking site on Pine Street by the campus.

of Scientific Manpower," the Reader's Digest for May urges in an article by science writer Albert Q. Maisel.

Improving—by only five percent—the efficiency of the men now at work in science and engineering would make up for the missing 10,000 new graduates this June. The writer obtained this

(Continued on Page 10)

"Let's Stop This Shocking Waste of Scientific Manpower"

Good jobs at high pay are going begging all over the country. The big reason is inefficient use of men now in technical positions. "Let's Stop This Shocking Waste

Attention Graduating Seniors

The place of holding both the Baccalaureate Exercises and the Commencement Program on Sunday, May 26, 1957, has been changed from that printed in the announcement to the Rolla High School Auditorium.

Superior Performance

R.O.T.C. Brigade Praised

On Wednesday, May 1, at 1 P. M., Missouri School of Mines had its first formal meeting of the ROTC Brigade.

The Brigade was reviewed in honor of this year's annual Formal Inspector, Colonel Harry Gorman, who is PMST of Michigan State University. At the close of the Review, Colonel Gorman made this comment: "In my four years on ROTC duty, and after numerous inspections of ROTC units in various colleges

and universities, I can truthfully say I have never seen such a superior performance."

Cadet Brigadier General James R. Grahm, who was in charge of the Review proceedings, his staff and all the members of the Missouri School of Mines Engineer ROTC Brigade were commended by Colonel Eugene E. Moyers, PMST of MSM, for an outstanding performance during the review.

John J. Lembeck

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 at second class matter February 8, 1945 at the Post Office at Rolla, Mo. under the Act of March 3, 1879.



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Sen. Clark Explains His New Scholarship Bill

Senator Joseph S. Clark (D., Pa.) today introduced, for himself and Senator Wayne Morse (D., Ore.), a bill to provide Federal assistance in the field of higher education.

The bill - a companion bill to the Morse-Clark bill introduced last week which would provide \$1 billion a year in Federal aid to primary and secondary schools for general educational purposes - would make available 50,000 scholarships a year for students in good standing at accredited institutions of higher learning.

"These two education bills constitute a comprehensive approach to the solution of our education crisis, and together meet our basic needs in the three major areas of education; more school buildings and equipment, better teachers' salaries, and scholarships for higher education," Senator Clark stated.

The "National Scholarship Act of 1957" authorizes an appropriation of \$25 million the first year, rising to \$100 million in the fourth year when the program is in full operation. Both the scholarships and the available funds would be apportioned among the States according to the number of high school graduates in each State, and the States would administer the program. The awards would range from zero to \$1000 per student, with the average in each State not to exceed \$500. The student would have freedom of choice as to his course of study, and he could attend any university - whether public, private, or church-supported - provided it was duly accredited by appropriate educational authorities.

In a statement made on introducing the bill, Senator Clark pointed out that "We have programs for the conservation of soil, and of forests, and of minerals - yet we have no Federal program, or even a national policy, to prevent the needless waste of a large part of the finest talent of every generation." He noted that "fewer than half of the upper 25 per cent and only 6 out of 10 of the top 5 per cent of high school graduates are obtaining the higher education needed for full development of their potential usefulness to society."

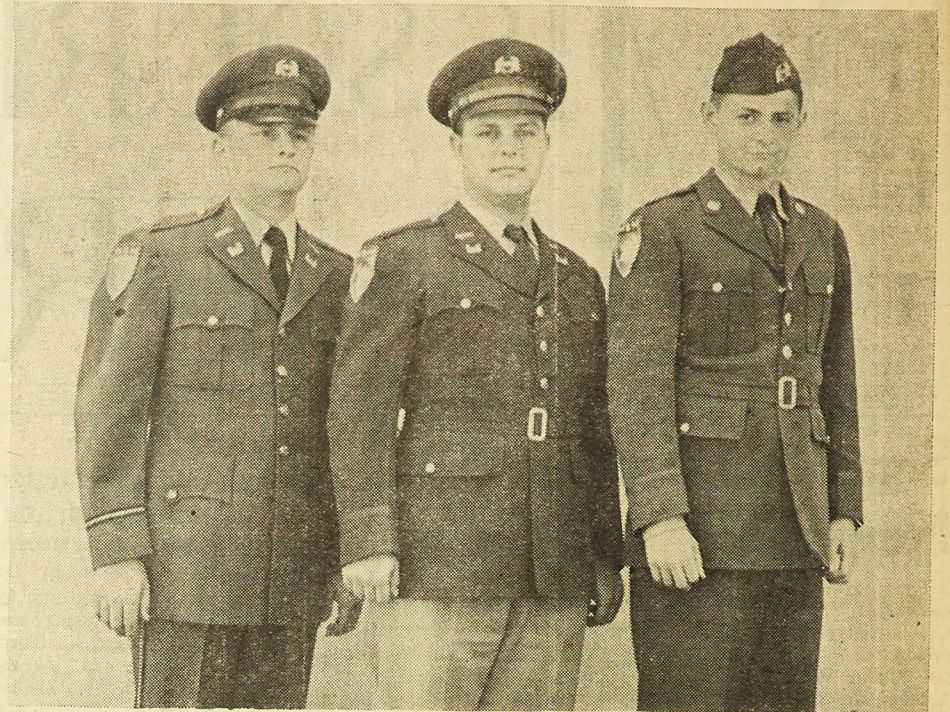
In addition, Clark said, "every year brings forth new and alarming evidence that the Soviets are surpassing us in the education of trained specialists - particularly

scientists and engineers. Citing information from the Central Intelligence Agency report that in this decade the number of graduates in the basic physical sciences in Russia will be one third greater than in the United States, Clark contended that "this communist effort is the ominous backdrop against which we must examine the waste of talent in America." He estimated that at least 200,000 students a year who should go to college fail to do so - half of them for economic reasons.

Referring to the many studies which have been made of this problem in recent years, Senator Clark declared that "no real solution has ever been advanced except to use a portion of the growth of our national income, through the Federal budget, to provide scholarships to our ablest students who will not otherwise go to college. He explained that the Clark-Morse Bill "is designed to get the greatest number of our young people into college at the least cost. Consequently, the amount of each scholarship will be determined on the basis of the cost of the student's course of study, and his resources and need, taking into account the extent to which he can earn his own way."

Clark pointed out that the bill had "adequate safeguards" for

Three R.O.T.C. Uniforms Cause Much Confusion



Three members of Lambda Chi Alpha Fraternity model the R. O. T. C. uniforms used here at the School of Mines. On the right is the basic course uniform as worn by the freshmen and sophomores. The Pershing rifles and Band members have modifications of this uniform. In the center is the uniform of the Regular Army officer. It is known as the "pink and greens." On the left is the new officer's uniform that will become regulation for all sometime this fall.

awarding scholarships on the basis of merit alone and "as strong a prohibition against Federal control or supervision of higher education as anyone has so far been able to compose." On that point, Clark said, he would welcome suggestions to make the language even clearer - if that were possible.

To the argument made in some quarters that the bill was inflationary, Clark replied that "the nation must determine how our available credit resources will be distributed among various social purposes," and added that "expenditures for the education of our ablest young people are the type that ultimately pay for themselves through the added wealth and income and tax revenues that they produce. If we must cut spending to curb inflation this is clearly not the place to do it."

Senator Clark concluded his statement by emphasizing the conclusions of many studies, and the work of two Presidential commissions had made it clear that "Congress need wait for no fur-

ther studies. The needs are clear. We should proceed at this session of the Congress to recognize the national interest in higher education and the imperative demands of our national security."

Open Letter From Student Council

To the Editor:

The Student Council, in behalf of the student body of the Missouri School of Mines and Metallurgy, would like to express its gratitude to both the M.S.M. Glee Club and R.O.T.C. Band and all those associated with them for the fine job that they have done this year. And we indeed do hope that they will continue in the years to come with the same vigor that we have seen in recent years.

Sincerely,
The Student Council

Market report: "Dressed poultry is up 2 cents a pound, but live pigeons continue to drop a little. . .

"Genesis"

PHYSICS DEPT. VERSION

1. In the beginning there was Fuller; and the word was with Fuller and Fuller was the word.

2. And on the first (lecture) day He created Physics and snow, and He could not divide the snow from the Physics.

3. On the Second day was created wave motion, and this wave could not give light, for the snow was so thick that the wave was absorbed.

4. Students were created on the third day by His command, "Thou shalt not take notes or do work of other courses here." And the students saw the snow and marveled, for they were unable to perceive the physics.

5. And on the fourth day, by the rotation of more than one shaft, were created Lisajous' Figures. And the students did plot these figures and did find the relative velocities of the various shafts.

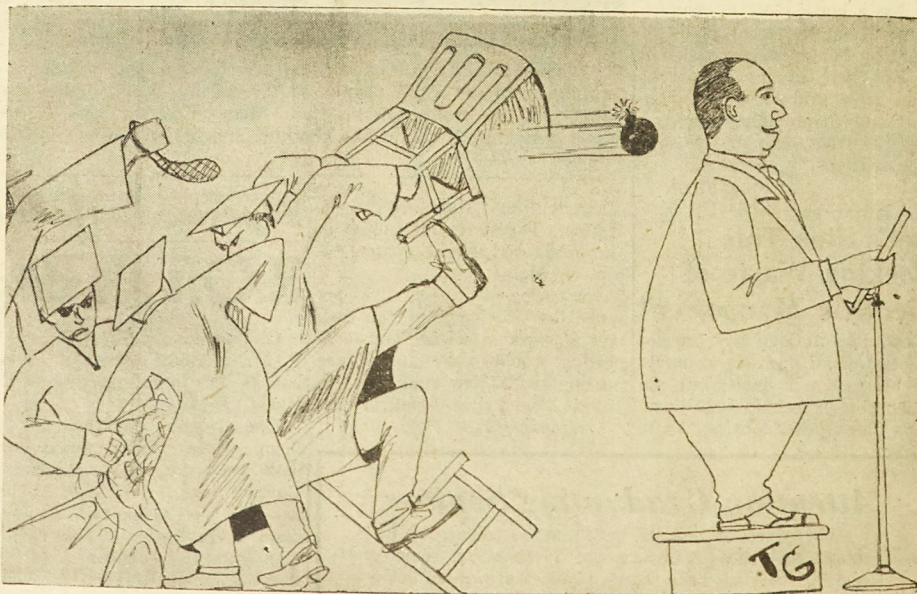
6. Relativity was created on the fifth day by the Word saying:

"There once was a man named Bright
Who could travel much faster than light.
He departed one day, in an Einsteinian way,
And returned on the previous night."

7. On the sixth day were created grades, and it was commanded, "Thou shalt partake of these grades or thou shalt be condemned to Hades and the Dean."

8. And was created blessed sleep on the Sabbath, and the students did rest. And this sleep was in fifty minute measures, and these measures were known as Fuller's then and for-ever more. And after the sleep there was nothing . . .

Dizzy Dean recalls a ball game once played in his home state. It was played in a cow pasture and ended abruptly when a runner slid into what he thought was third base.



"As You Future Engineers Go Out Into Industry . . ."

strictly ad lib

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"I did advise the parents of this country not to let their children study music if they had in mind following it as a profession, as it is a dying business. I still feel the same way about it. The future does not look good — it looks bad." These words represent the point of view of James C. Petrillo, the rarely interviewed president of the American Federation of Musicians. They're part of an exclusive interview Petrillo granted to *Down Beat* magazine. The interview, Petrillo's frank answers to 11 pointed questions, appears in the May 16 issue.

Perry Como has become known as one of show business' most relaxed performers. But Como reports that he does have to combat tension. There are a lot of tensions," he says. "Maybe they don't show, but they're there. I always am asked about the relaxed bit. We've got to work at this thing seven days a week. If it's not successful, I can always go back to the barber shop," he adds.

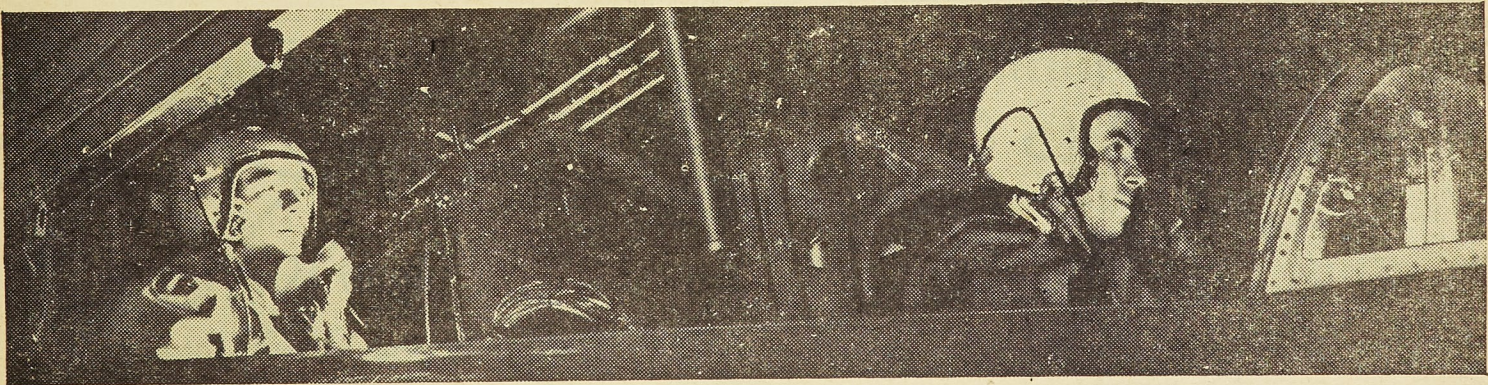
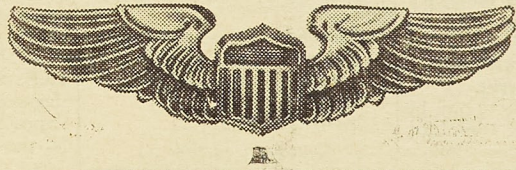
According to Nat Cole, "Youngsters create the demand for a certain style of music and singer. They dictate the music that's to be played, and the record companies are constantly aiming at that particular element." Cole discusses this, along with other pertinent matters, in his interview with *Down Beat's* John Tynan.

MUSIC NEWS: For the first time in music history, a concert series is presenting major classical and jazz artists in integrated programs. The Music for Moderns project at New York's Town Hall, the creation of concert violinist Anhid Ajemian and her husband,

Columbia Records' George Avakian, opened April 28 with Duke Ellington's orchestra performing an Ellington Composition, Sunch Sweet Thunder, and Dmitri Mitropoulos conducting an orchestra in Kurt Weill's Concerto for Violin and Wind orchestra, with Miss Ajemian as soloist. Future concerts will be held May 12, 19, and 26, featuring the Modern Jazz Quartet, Mahalia Jackson, the Chico Hamilton quintet, and several prominent classical artists . . . The invasion of Britain by the Count Basie band in early April proved an overwhelming success, with British promoters adding three extra dates to the band's already squeezed 21-day schedule . . . A Polish audience of 40,000 jammed the Palace of Culture and Science in Warsaw to hear Ray McKinley and the Glenn Miller-styled orchestra. It was a part of the band's European tour which included 16 Polish one-nighters and two weeks in Yugoslavia . . . Charles Emge, 56, west coast editor of *Down Beat* since 1940, died April 4 . . .

(Continued on Page 10)

A. E. Long, M.S.M., Ex '22, Lois S. Long, William S. Jenks, Jr.
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Graduate — Then Fly... U. S. AIR FORCE AVIATION CADET PROGRAM

Lincoln U. Ends M. S. M. Track Rampage, 83 to 49

Outdoor Track, Golf and Tennis Meets At Maryville State This Weekend

The 29th annual M. I. A. A. Conference Track Meet and the Conference Golf and Tennis Championships will be held at Northwest Missouri State College, Maryville, Friday and Saturday, May 10-11.

All signs point to one of the closest conference track meets in years. Three teams are expected to be strong contenders for the championship. They are: Cape Girardeau, winners of the 1957 Indoor Title; Warrensburg, winner of last year's Outdoor Meet, and Kirksville, runners-up in both meets. However, as was the case in this year's Indoor Meet, Springfield, Rolla and Maryville will be the determining factors as to which team will annex the crown. These three schools, while possibly lacking the depth of the other squads, have many potential first-place winners, whose performance will have a lot to do in deciding the eventual champion.

Several records are threatened on the basis of performances during the season. They are:

The High and Low Hurdle records, by George Simpson of Springfield, who established new Conference records in the 1957 Indoor Meet.

The 9.7 mark in the 100 yard dash, by Testman of Kirksville, who set the record last year, and by his team-mate, Rufus Davis, who tied the Conference mark in the 60 yard Indoor event.

The 9:45.5 two-mile record, by Rex Miller of Cape Girardeau, who established a new Indoor

M. I. A. A. CONFERENCE OUTDOOR RECORDS

Event	Record	College	Year
100 yd. dash	9.7	Kirksville	1956
220 yd. dash	21.4	Cape	1948
440 yd. run	49.6	Maryville	1934
One mile run	4:26.3	Maryville	1955
Two mile run	9:45.7	Maryville	1950
120 yd. H. H.	14.8	Cape	1938
220 yd. L. H.	24.1	Cape	1938
Broad Jump	23' 4 3/4"	Springfield	1956
High Jump	6' 5 3/8"	Maryville	1956
Pole Vault	13' 10 3/4"	Cape	1941
Discus	143' 10 1/2"	Kirksville	1933
Shot Put	48' 8 1/4"	Cape	1956
Javelin	196' 10"	Warrensburg	1928
880 yd. run	1:56	Springfield	1956
Mile Relay	3:25.6	Cape	1935

mark of 10:02.5 in this event.

The 48' 8" shot put record, by Curtis Smith of Rolla, who broke the Indoor record with a heave of 46' 10" this year.

The high jump record of 6' 5 3/8", by Denzil Caldwell of Maryville, who established the mark in last year's meet.

The Mile Relay record, by Warrensburg's crack quartet of Malloy, Spain, Crews and Miller, who set a new Indoor record of 3:35.5 this year.

Standings in the 1956 Conference Outdoor Meet at Warrensburg:

1. Warrensburg	61	points
2. Kirksville	51 1/2	
3. Cape Girardeau	45 1/2	
4. Maryville	36 1/2	
5. Springfield	32	

(Continued on page 5)

Golf Team Swamps Lincoln U., 18 to 0

By John McKeone

The Miner Golf Squad neared the end of the 1957 season by defeating the team from Lincoln University last Saturday by a staggering 18-0 tally. The golfmen defeated every one of the men from Lincoln, and each one of the matches showed a Miner on top.

Harry Penn showed his usual good style by defeating Bailey of Lincoln by a 70-99. Harry's 70 was not as good as some of the scores he has shown in recent meets, but it was good enough to help put down those Lincoln Linkmen. His partner in team play, Arch Burk, clobbered Lumpkin of Lincoln by coming out on the high end of a 72-105 showing on the score sheet. Dave Lester continued the winning streak by putting down Mason, 73-140, and Jim Joslin helped the cause by defeating Fulton, 76-98. The Miners weren't hitting their best at this meet, but were obviously much better than a grossly inferior Lincoln team.

Friday and Saturday, May 10th and 11th will see the last

meet of the golf season, the State Outdoor Meet at Maryville. The Miners are hoping to do quite well at this match, and if they can hit as well as they are capable, we can be sure that they will make a good showing.

On May 4, the Miner tennis team played a match against Lincoln. The match, played here in Rolla, was won by MSM by a score of 3-1. None of the individual matches were close, as all of them were won in two straight sets.

In the singles competition, Don Roth of Rolla defeated James Scott 6-1, 6-3, and Terry Kohler defeated James Ralston of Lincoln 6-3, 6-4. Bob Harris then lost to Burleigh Hines 6-1, 6-3, for Lincoln's only win of the day. The Miners then came back to win the doubles match with Roth and Harris defeating Scott and Ralston 6-3, 6-0.

MSM has two more tennis matches this season. The tennis team will take part in the outdoor meet at Maryville on May 10-11, and on Saturday, May 18, Concordia will play here in Rolla.

Suffer Only Season Defeat

The dream has ended. It was a nice dream with a beautiful rosy ending but it stopped abruptly. The dream—an undefeated season for the Missouri Miner track squad—the halters of the dream—the squad from Lincoln University of Jefferson City.

Yes, Lincoln U came to Rolla Saturday, May 4, and thoroughly defeated the Miners, 83-49. It can't be said that the Miner defeat came as a complete surprise, because Lincoln was known to be very strong. It had entered the top-notch Drake Relays and had done fairly well for itself; a number of its men placed with one man taking a couple of seconds.

As great a team as Lincoln had, the surprise would have been a win by the Miners. But the heart-felt hope was that the Miners would win. The team had beaten

such teams as Springfield, Washington U and Southern Illinois by scores ranging from 74 1/2-56 1/2 to 109-22.

The Miners took first place in only four events: the two-mile, the discus, the pole vault and the mile relay. Vancil, Agers and Barre took the first three events, respectively. Such consistent MSM winners as Allison and Walz could not take an undisputed first place. Allison tied for first with two Lincoln men in the 100 yard dash; he came in third in the 220. Walz came in third in both the high and low hurdles. These two men had been winning these events like clockwork.

There remains only one event for the Miner track squad, the MIAA outdoor meet at Maryville today and tomorrow, May 10 and 11. This meet with Lincoln represented the last of seven dual meets for the Miners. Just like the swimming team's one loss to SIU, this one loss came at the last of the season. A lot of hopes have been dashed by this loss; a lot of dreams have been done away with.

Here are the results of the Lincoln meet as they came in:

Shot Put—Dist. 45' 9 3/4".
1. Marshal, Lincoln; 2. Walters, Lincoln; 3. Smith, MSM.

Mile—Time: 4:31.4.
1. Gant, Lincoln; 2. Wright, Lincoln; 3. Vancil, MSM.

100 Yd. Dash—Time: 10.2.
1. Lee, Lincoln; 2. (tie) Mercer, Lincoln; Allison, MSM.

880 Yd. Time: 1:59.5.
1. Burkhead, MSM; 2. Washington, Lincoln; 3. Wright, Lincoln.

220 Yd. Dash—Time: :22.3.

(Continued on Page 5)

Soft Ball Finishing Up; Golf, Track Next Week

The Monsoon season having ended in Rolla, Intramural Sports once more take over the news. Most of the schedules were about shot due to the untimely change of weather. Anyway, the sun is shining now, so let's take a quick look at the Sports Scene. The softball season should have been all wrapped up but a few games must be made up this week. Last week's results stacked up as follows: Dorm A took one from TKE, Sig Tau over Wesley, the Shamrocks defeated Theta Kap. Kappa Sig beat Beta Sig to round out the first day of play.

The second round of the week saw the Prospectors take it over Theta Xi, Tech Club beat the Dorm, Sigma Nu downed Theta Kap, Beta Sig defeated Pi KA and Triangle took one from KA. The Trio day found the Prospectors downing Theta Xi, BSU beat Sig Ep, Lambda Chi got to Theta Xi, and Pi KA downed the Engineers Club. On the fourth day of the week, Shamrock won on a forfeit from Wesley, Dorm A got to the Dorm, Sigma Nu defeated the Prospectors, Delta Sig beat Theta Xi, and Theta Kap downed Theta Xi. TGIF found Sigma Nu getting to Lambda Chi, Dorm A beat Sig Pi, the Prospectors downed Sig Tau, Delta Sig won over Pi KA Sig Ep got to the Dorm and Theta Kap beat Wesley. It was a fine week for softball and many exciting games were played as a prelude to the championship games which will be played this week.

The Intramural Doubles in Horseshoes will also be on the end of this week. The Tech Club beat TKE for the wind-up in the Winner Tourney and Tech will play the winner of the Loser Tourney which includes the winner of the TKE and Theta Kap game. The Championship game will also be played next week.

In the Horseshoes Singles games, the Tech Club beat Sigma Nu to round out the Winners

Division. The Tech club also won a game over Theta Xi earlier in the week. Tech will meet the winner of the Losers Tourney this week in preparation of the Championship game.

The Intramural Sports will close out with the Track meet which will take place in the coming weeks. The men have been working out and the meet should be a success. Also the Golf Tourney will be held soon, which should provide a great finish to the already exciting year. Next week more news about these sports. That's it for now.

Joe Masnica

IT'S FOR REAL! by Chester Field



OUR LAWLESS LANGUAGE*

The laws that govern plural words
I think are strictly for the birds.
If *goose* in plural comes out *geese*
Why are not two of moose then *meese*?
If two of mouse comes out as *mice*
Should not the plural *house* be *hice*?
If we say *he*, and *his*, and *him*
Then why not *she*, and *shis*, and *shim*?
No wonder kids flunk out of schools
... English doesn't follow rules!

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*\$50 goes to Paul R. Salomone, City College of N. Y., for his Chesterfield poem.
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FRIDAY, MAY 10, 1957

THE MISSOURI MINER

PAGE 5

Varga, Feaster Chosen Lineman, Back of Year

Roger Feaster and Bill Varga have been chosen as back and lineman of the year for the 1956 football season. The selection is made annually by the "M" club.

Roger Feaster won the honor of back of the year by completing 40 per cent of his passes in four years here at MSM. Roger scored three touchdowns in this year's 26-6 defeat of Carthage, which snapped their 12-game winning streak. His running ability, feared by the opposition, was one of the prime factors that led the Miners to this year's conference championship. Roger is married and has one son, named Jeffery. He expects to graduate in June with a degree in Civil Engineering. Before coming to Rolla, Roger played quarterback for Palmyra, Missouri.

Bill Varga, chosen lineman of the year, comes from Carteret, New Jersey. Bill plays center on offense, and linebacker on defense. Having played first string football for two years, he has been elected captain of the Miner football team for next year. Bill, a metallurgy major, is now completing his junior year at MSM. Bill is also a member of the Lambda Chi Alpha Fraternity.

The "M" club is a service organization on the campus. It is made up of those students who have lettered in any sport.

Track Team Loses To Lincoln U.

(Continued from Page 4)

1. Lee, Lincoln; 2. Herd, Lincoln; 3. Allison, MSM.

2 Mile—Time: 10:31.2.

1. Vancil, MSM; 2. Hershbach, MSM; 3. Ricker, Lincoln.

Broad Jump—Dist. 22' 5".

1. Shannon, Lincoln; 2. Wells, Lincoln; 3. Mercer, Lincoln.

Javelin—Dis.: 168' 4".

1. Wells, Lincoln; 2. Northup, MSM; 3. Sullivan, MSM.

High Jump—Dist. 6' 4".

1. Taylor, Lincoln; 2. (tie), Hammnod, MSM; Shannon, Lincoln.

440 Yd. Dash—Time: :49.9.

1. Herd, Lincoln; 2. Washington, Lincoln; 3. Eshbaugh, MSM.

High Hurdles—Time: :15.3.

1. Wells, Lincoln; 2. Larrison, Lincoln; 3. Walz, MSM.

Discus—Dist.: 132' 11".

1. Agers, MSM; 2. Williams, MSM; 3. Marshall, Lincoln.

Pole Vault—Dist.: 12' 3".

1. Barre, MSM; 2. Kreder, MSM; 3. Lawson, Lincoln.

Low Hurdles—Time: :24.5.

1. Wells, Lincoln; 2. Larson, Lincoln; 3. Walz, MSM.

Mile Relay—Time: 3:35.2.

1. MSM.

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INDEPENDENTS

The Independents will hold their final meeting of the school year on Monday, May 13. This meeting will be highlighted by a business meeting which should be of the utmost importance to every member. There should be other attractions at the meeting to supplement the business meeting.

This forthcoming meeting will inaugurate the Independents' officers for the next school year. The new officers are: President Wally Northrup, Vice President Del Day, Secretary Tom Bertorello and Treasurer Charles Baskin. These men were elected at the last Independents meeting, which was held in April.

A note of thanks is given to the officers which guided the organization through this school year. The past officers are Wally Northrup, Frank Coffey, Tom Bertorello, and Les Unnerstall. Great job done!!

Everyone seems to have caught the "outing" fever which always begins to spread about this time of the year. People are still talk-

ing about the GDI's outing. Numerous clubs are in the process of holding outings as everyone is in a gay mood. Who'll have an outing this weekend?

As a final note, remember the GDI's final meeting of the year which will be held this coming Monday, May 13. Every member is urged to attend.

Gay: "You don't seem to realize on which side your bread is buttered."

Jay: "What does it matter? I eat both sides."

A bargain is a good buy. A good buy is a farewell. A farewell is to part. To part is to leave. My girl left without saying good-bye. She was no bargain anyway.

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MOVIES IN CINEMASCOPE

Friday and Saturday, May 10-11

'The Last Wagon'

Richard Widmark, Felicia Farr

Sun., Mon., Tues., May 12-13-14
Sunday Continuous from 1 p. m.

'Moby Dick'

Gregory Peck, Richard Basehart

Wed., Thurs., May 15-16

'The Bad Seed'

Nancy Kelly, Patty McCormick

RITZ THEATRE

MOVIES ON WIDE SCREEN

Friday and Saturday, May 10-11

Saturday Continuous from 1 p. m.

'Daddy Long Legs'

Fred Astaire and Leslie Caron

— PLUS —

'Beast From

Hollow Mountain'

Guy Madison, Patricia Medina

Sun., Mon., Tues., May 12-13-14

Sunday Continuous from 1 p. m.

'Fixed Bayonets'

Michael O'Shea and

Richard Basehart

— PLUS —

'Gun Smoke'

Audie Murphy and Susan Cabot

Wed., Thurs., May 15-16

'His Majesty O'Keefe'

Burt Lancaster and Joan Rice

— PLUS —

'The Killing'

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Sunday and Monday, May 12-13

'Vera Cruz'

Gary Cooper and Burt Lancaster

Tues., May 14-DOLLAR NIGHT

'Firemen Save

My Child'

Spike Jones and Buddy Hackett

Wed., Thurs., May 15-16

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Convict Lake'

Glenn Ford and Gene Tierney

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Missouri Ranks Low In Higher Education Spending

Missouri ranks far lower in its expenditure for higher education than it does in per capita income.

Missouri ranks 18th among the 48 states in per capita income, but only 42nd in the per capita expenditures from state funds to support colleges and universities.

Per capita expenditures for higher education in Missouri are \$4.02, compared to a national average of \$7.34.

Missouri ranks sixth from the

bottom and ahead of Kentucky, New Jersey, Pennsylvania, New York, Vermont and Massachu-

setts.

If the state were to allot money for higher education in propor-

tion to its ranking in per capita income, it would spend an additional \$13,532,000 a year.

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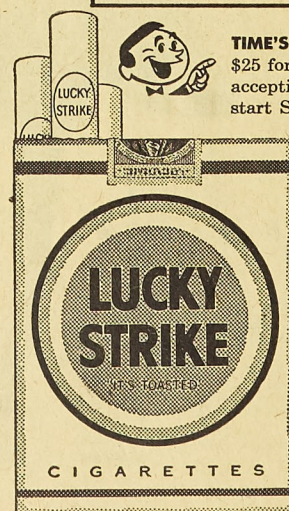
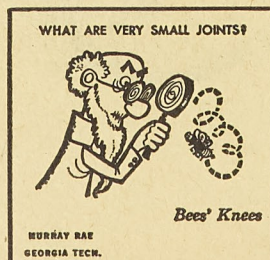
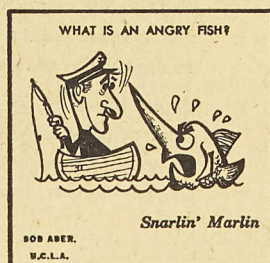
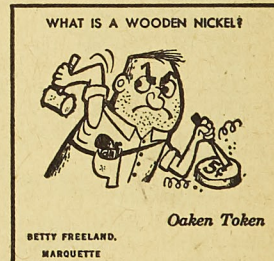
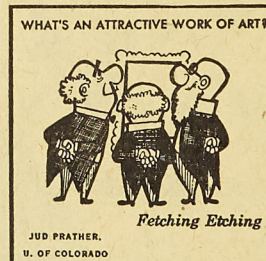
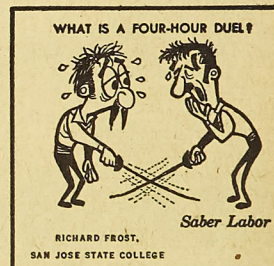
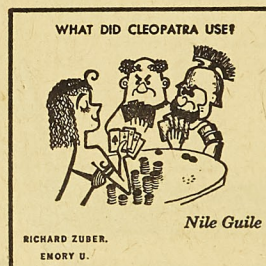
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TIME'S RUNNING OUT! We're still shelling out \$25 for every Stickler we accept—and we're still accepting plenty! But time is getting short—so start Stickling now! Sticklers are simple riddles with two-word rhyming answers. Both words must have the same number of syllables. Send your Sticklers, with your name, address, college, and class, to Happy-Joe-Lucky, Box 67A, Mount Vernon, N. Y. And send 'em soon!

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CLEANER, FRESHER, SMOOTHER!

Students Feel That They Would Study Harder in High School if They Could Go Back

Minneapolis — (ACP) — The jump from high school into college is a rather large one for many of us. It's the final training step for a young person getting ready to make a place for himself in the world. It involves many changes, often requires residence away from home, new social adjustments, and in many instances a brand new emphasis on study.

College requirements are necessarily strict, and most students find they have to "knuckle down" and "burn the midnight oil" quite a bit longer than they did while attending high school. Many wish they had spent more time studying in high school so their adjustment to college would be a little easier.

Associated Collegiate Press decided to find out exactly how collegians feel when comparing high school study with college study, and asked the following question of a representative national cross-section of college students:

IF YOU HAD IT TO DO OVER AGAIN, WOULD YOU STUDY HARDER IN HIGH SCHOOL IN ORDER TO BETTER PREPARE YOURSELF FOR COLLEGE STUDY?

The results: Men Women Total
Yes 67% 53% 62%
No 31% 43% 35%
Undecided 2% 4% 3%

The figures indicate that many college students appear to realize the importance of an adequate high school preparation "after" they enter college. And in addition, this realization seems to be more prevalent among the men.

The problem of organization of time and study habits is perhaps the most important thought in the minds of those students who feel they would indeed study harder in high school if they had it to do over again. Many believe harder high school study would make college easier and thus more profitable. Others say that curriculum changes are needed in high school, that many high school courses and subjects are worthless. Still others feel that the atmosphere is decidedly different, that there is no real pressure on students to study hard in high school.

Here are a few typical remarks. "I did not realize how important study was while I was in high school; now I know better," says a sophomore at Lynchburg College (Lynchburg, Va.). "The transition is really great," is the way a junior attending Louisiana State University (Baton Rouge) puts it, while a sophomore at Southern Oregon College (Ashland) has this to say: "I would try to develop better study habits so college would be easier." And a University of Nebraska sophomore coed seconds his feeling with this remark: "I feel I did not learn to study properly in high school."

A sophomore coed at Christian College (Columbia, Mo.) states matter-of-factly that she "came from a school where we did more partying than studying." But one of her classmates puts it this way: "I see now how little work it would have taken to make good grades compared to the work I do in college." A Long Beach City College (Long Beach, Calif.) freshman coed feels, along with

many other collegians, that "it is harder to study in high school as not everyone is studying. In college it is easier to study as everyone is in the same general environment."

Some students feel there is no need for harder study in high school. Some noted the difference in study habits between the two levels, but feel nothing can be done about it, for example, a senior coed at Michigan State University (East Lansing) has this to say: "In college you have a study atmosphere which is different from that of high school. It's something you just have to

learn in college."

Others think high school was too much fun for studying. Some feel that there is really not too much difference between high school and college. Yet others think the change is so great that students have to start all over anyway. Here are a few typical comments. "I had too much fun in high school," is the feeling of a junior at Southern Oregon Col-

lege, and a freshman at Villanova University (Villanova, Pa.) says: "I think if I had studied harder I would have missed a lot." A freshman at Wesleyan University (Middletown, Conn.) however, feels that it was no use studying harder in high school because "the things I lack were not even taught in high school." And a not inconsiderable amount of sentiment is represented by the

statement of a Northern Illinois State College (DeKalb) sophomore coed who says: "I studied as hard as I could."

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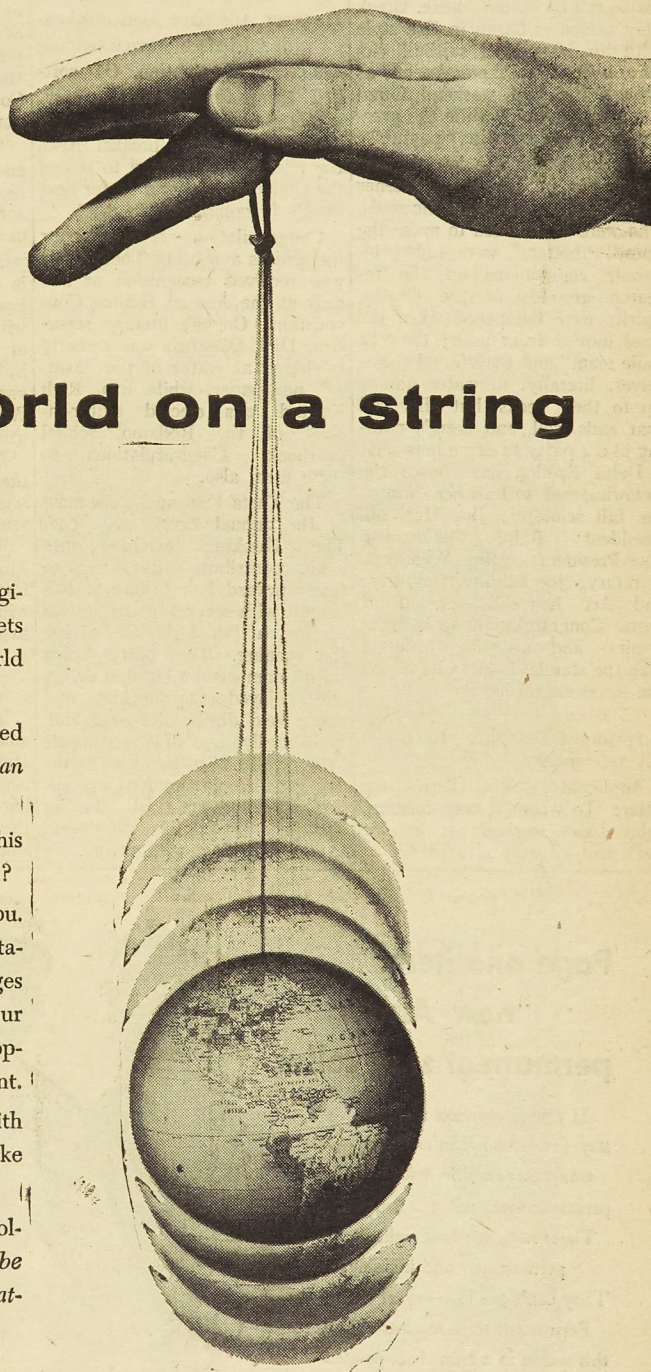
We're merely going to leave you with one thought that may help you make your decision:

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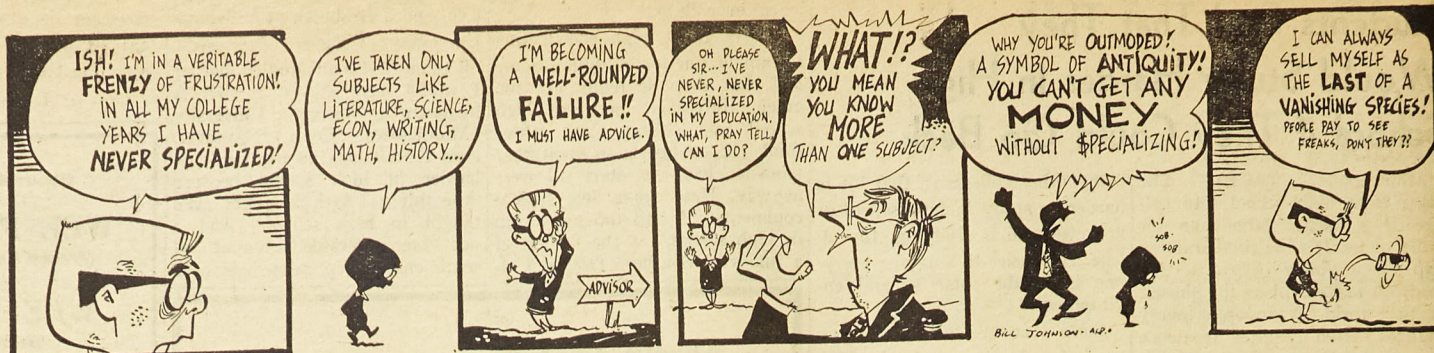
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ARNOLD



Fraternity News

DELTA SIGMA PHI

Party days have come and gone and the occupants of the white house by the highway have only memories to fall back on and finals to fall on in the future. Greek Day activities began in fine style with an intramural softball victory over the Pikers; seems as though the past weekend found the guys "layin'" while the president had them sweating "payin'."

Several Delta Sigs left the fair metropolis in search of greener pastures but a few scientific souls, who were determined to make the "best" "better," were aided by female companions on the research grounds of the Grotto. Spirits were dampened when the road moved from under the "12 mule team" and they found themselves, literally, in water almost up to their necks, but all's well that ends well, and there's nothing like a party to dry a man out!

Delta Epsilon has chosen the following men to lead her through the fall semester: Jim McNabb, President; Ralph McCormick, Vice-President; Jim Weimholt, secretary; Joe Schulte, treasurer; and Art Kincaid, sergeant at arms. Congratulations to both incoming and outgoing officers; may the standards of Delta Sigma Phi be strengthened!

Personnel Director: "Have you any reference?"

Applicant: "Sure, here's the letter: 'To whom it may concern. John Jones worked for us one week and we were satisfied.'"

THETA KAPPA PHI

It was a comparatively quiet week at the "cow" house with everyone recuperating from the rigors of the Greek weekend. However, the pace soon quickened with softball and track holding the center of attention. Our softball team finished competition, with the players doing a fine job despite some tough breaks. Also, the trackmen continued to pound the cinders in preparation for next week's intramural track meet.

Congratulations are in order for the seniors and other Theta Kaps who received recognition or awards at the Annual Honors Convocation. On the literary scene, Bro. Dick Okenfuss was recently re-elected as editor of the "Miner" newspaper, while Bro. Rich Konrad was elected editor-in-chief of the Rollamo, school yearbook. Congratulations to these men, also.

The Theta Kaps made the most of the annual Greek week end. The "Dunking" machine once again contributed its share of funds toward last Friday night's benefit with several of the actives leading a "duck's" life during the evening. The party spirit wasn't dampened a bit, and everyone enjoyed the outings and dance held during the week end. Incidentally, one of the contests held at the "Grotto" last Saturday gave ample proof of our superiority over our rivals, the Sig Eps. The Sig Eps just can't seem to do anything without getting

all "wet."

PI KAPPA ALPHA

With the ending of another glorious weekend the Pikes are in the process of settling down for the home stretch as far as school goes. The past weekend cost the Pikes a vast number of beer mugs and one pin which was lost to one of the most beautiful girls south of the Mason Dixon Line. The pinning was done by Lon Kieffer, the receiver was Alice Holman. Congratulations Lon, with a Southern accent.

The main event over the weekend was when our boxer (Punch) using "dog philosophy" found something that he could not eat or ? so he ? on him.

Along the lines of pinning it is common knowledge around the house that our next big weekend will bring two more pinnings. One of the pinnings will be performed by Harry Lietz to his high school sweetheart, the other by John Wolf as soon as Vicki finds the marble.

Enough of telling the tales of the past weekend being that it is senior month and I am not a senior.

The next weekend will bring Mother's Day. We are all looking forward to the grand occasion and will do all that is in our power to keep them happy.

SIGMA PI

The weekend has come and gone and we at the "Big White House by the Tracks" have finished the social season with a big bang. We did very well in the Greek Day Games and finished first and therefore gives us

a new trophy for the mantel. After the I. F. C. slide rule boys figured out the final scores for both the games and the booths, our candidate for queen, Miss Jo Ann Hamble was crowned Queen of Greek Week. Congratulations Jo Ann, you deserve the title.

Now that the parties are over, the house is slowly quieting down in anticipation of those horrible things called finals. With that thought in mind, we would like to congratulate Lanny Evans, one of the lucky guys that gets to graduate in June. How does it feel Lanny?

LAMBDA CHI ALPHA

Last week, work week provided an excuse for the pledges to throw the pledge trainer in Frisco, and this they succeeded in doing. Their attempts to dunk the house manager, however, ended in utter failure when some of the actives decided that all pledges should begin swimming lessons themselves.

Also last weekend we became the proud owners of a baby grand piano — this arriving just in time to be used in Greek Week celebrations. We hope all the guests attending our dance enjoyed themselves, at least everyone seemed to having a real blast.

Congratulations are in order

for Poppa "Yoakum" Webb for bringing home the bacon and to the men who avenged our recent softball defeat by pulling you know who into the water on the end of a rope.

George, the "Senior Staff Car," is up for sale again. Asked price is \$28 to up-and-coming seniors and \$35 to others. Who needs a '41 Nash? It does run.

And the story ends — everyone was happy ever after but: Bang! — EXAMS. "Too piercing man, too piercing."

TAU KAPPA EPSILON

"... and that's all she wrote." So it goes as the last party of the school year draws to a close — Greek Day, namely, and a success it was — Togas and all — even though things were wrapped up quite early Saturday night.

The Tekes, in the world of sports, are in the normal spring swing. With 5 wins and one loss in the softball end of things, an elimination contest with the Tech Club seems inevitable, the winner of which enters the playoffs. In double horseshoes, Paul and Joe finally found their match, and as a result they were eliminated in the horseshoes finals.

And, for the moment, that's about the extent of things in the Teke House.

Page one item: new Arrow permanent stay collar

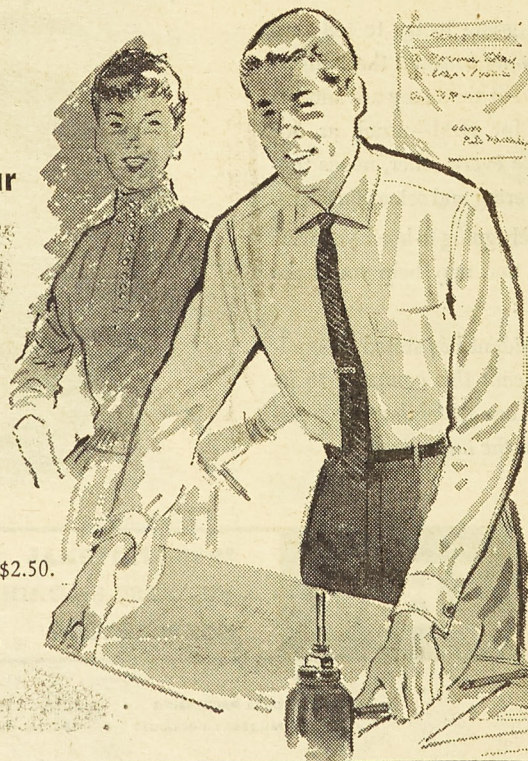
If you've ever lost a collar stay (and who hasn't?) this smart Arrow shirt with permanent-stay collar is for you.

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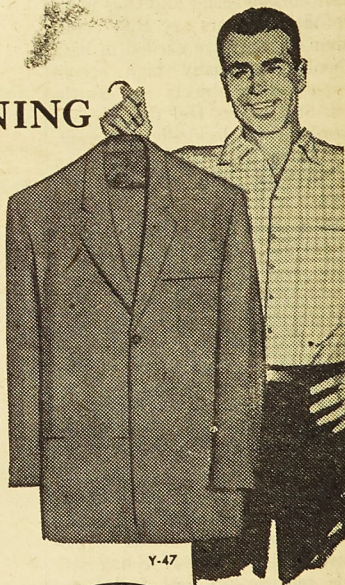


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SIGMA PHI EPSILON

Sig Ep's great doubles tennis team won a championship. The due of Mike Swoboda and gallant John Woodward won over a team from Tech Club Tuesday, April 30, to win a double elimination tourney without a defeat. Mike was the boy who had a sore toe at the beginning of the school year and couldn't play singles; John was the guy who won the intramural diving championship. These two guys, both Freshmen, will be back next semester and should really go in the singles.

The softball season ended for Sigma Phi Epsilon with a 2-0 loss to Teke and its pitcher, and a 3-3 season record. Considering everything this amounted to a pretty good record.

As nearly everyone knows, this past weekend was Greek weekend. Sig Ep's Strength Tester at the carnival didn't last too long because of the smashing blows upon it. Sig Ep placed in a lot of events at the Alhambra Grotto Saturday afternoon. The dance at the house Saturday night featured a set of play money gaming tables where the object was to see who could compile the most money.

Stan Moore

BETA SIGMA PSI

All the Big Betas with their dates had a wonderful time Greek Day. The booth brought good results and enjoyment for all. The lamp, first prize, was won by Jerry Overton, an instructor from Lambda Chi, by throwing four deuces. Too bad you're a Big Beta, Ed, those four kings were the best thrown.

Our Greek Day Queen candidate, Wanoma Hoehn, was putting forth a gallant effort, especially in the sack race. After being well filled with barbequed rizs, potato salad, and drink, everyone headed for the Old White House for the traditional Gold Rose Dance.

The evening was further accentuated by the music of the Star Dusters. All in all, everyone tried to live it up because this was the last time the girls would be down here this school year. From now on, we really hit the books. Don't we?

Looking at the romantic side of life, it seems that Jerry and Ted had their hands full at the theater last week. Whoops, wrong girl! Congratulations go to Walter Schrieber for going steady with Barbara Foster. Thanks for the cigar, Walt.

TRIANGLE

The last party of the year has come and gone. I'm sure a good time was had by all who were here. The party was also improved by the presence of Mr. and Mrs. Houston and Mr. Coad. Out thanks also go to Mr. Butterfield for the fine job of chaperoning he did. Here's hoping they can be present for many more parties. A few of the boys who gave blood took the nurse's advice and drank plenty of liquids this weekend. However, I doubt if they needed an excuse.

Don't worry, Urban, I hear they're going to plan every party for you next year to make up for this year. All in all, the dance was a real success. Even Ahlert said that he enjoyed the dance Saturday night more than any other party. Is that right, Bob?

I read in the paper last month that the U. S. Army was hunting for a "normal" man to put in their ranks. Well, they finally found him. It seems that all of

Scribbler's friends and neighbors have selected him for the job. I hear that he always did want to visit Egypt.

KAPPA SIGMA

Kappa Sigma seems to have come through Greek Weekend unharmed, except for a few bleary eyes, a trampled front lawn, and some glass in the gutter. The K. Sig booth, while a last-minute affair, was a moderate success. Thanks to the fellows who worked on it.

Several out-of-town visitors stopped by over Greek Weekend: Kurt Plache '55, now with Allis-Chalmers in Kansas City; Jack Beirne, a K. Sig from Wash U., and his friend, George Petri.

The softball team continues in the winning column, remaining undefeated this season. At the time this article was written, only one game was left to win. The track "stars" are working out feverishly in an attempt to bring a few firsts in next week's intramural track meet.

Congratulations to Bob Stewart '56, on his marriage to the for-

mer Miss Barbara Tuedker this last weekend at Poplar Bluff, Mo. Congratulations, also, to Jerry Wright on the announcement of his engagement to Miss Janet Ward.

Bob Meyers '55, just out of the army, has taken a position with Mexico Refractories, Mexico, Mo.

A number of new Hi-fi LP's have been added to the house's record collection.

SIGMA NU

Everyone is finally back to normal after a very "damp" Greek Week celebration. It seems that a couple of our more up-standing members went on a good-will tour at the Grotto. For some reason though, they can't remember how "good" the "will" was! Right, Henly?

Our softball team landed top spot in their league by beating Lambda Chi in a protested game Monday afternoon. The Snake team went undefeated in league play, and will be mighty tough competition in the finals.

Congratulations are in order to Brother Clark Smith on his re-

cent engagement to Miss Mary Harlass from M. U. Also congrats to Ed Reid, our ex-commander, on getting pinned to Miss Pat Tucker of Springfield. That makes it two down and forty to go!

KAPPA ALPHA

Friday night, May 3, was the kick-off of the 1957 Greek Week. That night the Interfraternity Council held its annual carnival on State Street. Our stand, the KA Roli-Poli, took in \$45, which was one of the largest amounts taken in that night. Since the night was rather chilly, the crowd was rather sparse. After everyone had chalked up memories of the carnival, the House had a hay ride, real cool, literally and figuratively.

Saturday afternoon, the IFC picnic was held at the Grotto in Newburg. We won several events, which turned out to be very entertaining, and came out 2nd place overall.

Saturday night, the House held a party as a last fling before the week-end was over. The theme

of the party was hillbilly in nature with some very good decorations to back it up. There was sawdust all over the basement floor, and there was some very apropos ornaments scattered around the room. Everyone was clad in hillbilly attire.

DR. B. A. ROGERS SPEAKS

(Continued from Page 1)

and then later with the U. S. Bureau of Mines at Pittsburgh and at Albany, Oregon.

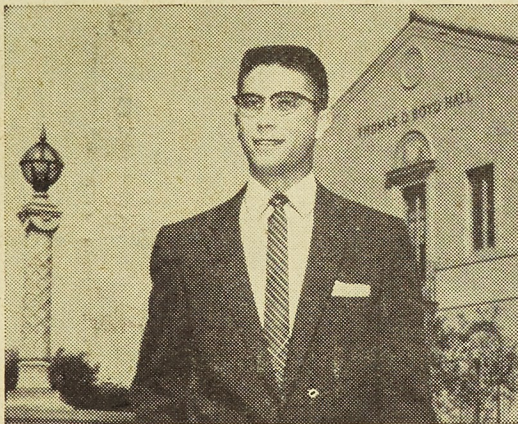
On Monday and Tuesday mornings (April 29 and 30) Dr. Rogers lectured to student groups on the production of metallic uranium and thorium, and met with faculty and graduate students.

The final lecture jointly sponsored by ASM and The Society of Sigma Xi was given at 7:30 p. m. in Room 107, Mining Building, Tuesday, April 30. Dr. Rogers spoke on "Some Properties of Nine High-Melting Metals."

Bright eyes indicate curiosity—black eyes, too much.

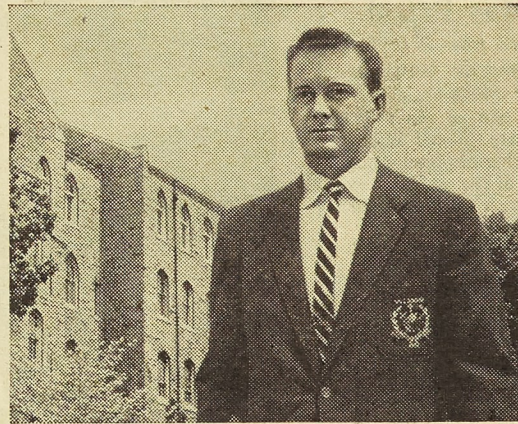
Questions students ask Du Pont

—and some of the answers in summary form



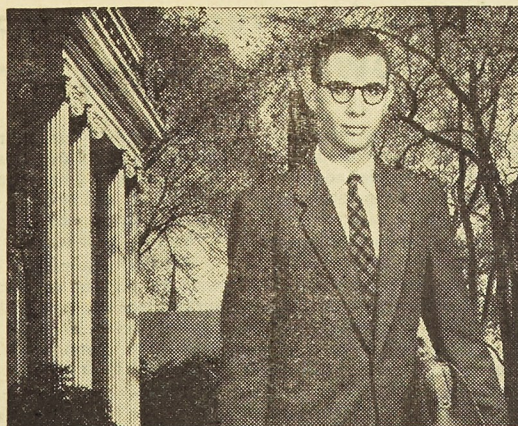
"Do you hire men who have definite military commitments?" asks Oran A. Ritter, Jr., of Louisiana State University.

Yes, because Du Pont has always been interested in men on a long-term basis. Du Pont has employed many graduates with military commitments even though they were due to report for duty a few weeks after joining the Company.



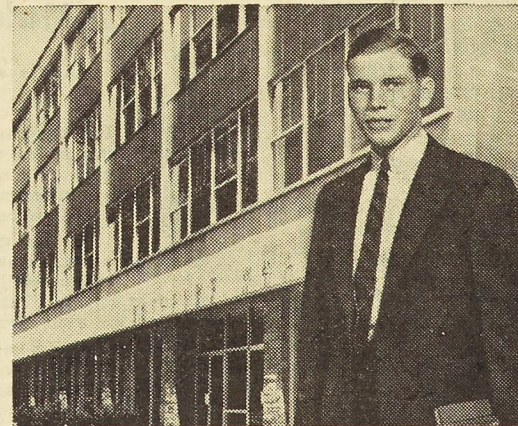
"Would a graduate degree help my chances for advancement at Du Pont?" asks John C. Nettleton, of Villanova University.

Many factors are involved, and an advanced degree would undoubtedly have a favorable effect in all technical work, but it would probably be of more direct benefit in research or development at Du Pont than in production, marketing or sales.



"Where would I work for Du Pont?" asks Gaylord E. Moss, of Tufts College.

Du Pont has more than 140 plants and research and development laboratories scattered through 26 states. If you have a definite preference, and Du Pont has an opening there for which you're qualified, your chances of getting it are good.



"How are chances for advancement in a large company like Du Pont?" asks Hersehel H. Loomis, Jr., of Cornell University.

Good! Du Pont is large, but it's made up of 11 independent departments—like smaller companies—under one management. And it's a basic policy to promote from within and on merit as Company growth creates openings.

We can give only brief answers to these questions in this space. But we'll be glad to answer them more fully, and to try to answer other questions you may have that bear more directly on your own future. Why not write us today? Address: The Du Pont Company, 2507C Nemours Building, Wilmington 98, Delaware.



BETTER THINGS FOR BETTER LIVING
...THROUGH CHEMISTRY

WATCH "DU PONT THEATER" ON TELEVISION

Waste of Manpower

(Continued from Page 1)

estimate from Dr. Lee A. DuBridge, president of California Institute of Technology.

Such improvement is exactly what is not being done by the Defense Department and many large defense manufacturers, according to the Reader's Digest article. They squander the time and talent of experts, and divert key men from research to recruiting scientific staffs of other employers, including the government itself.

Most fantastic of all, the author charges, the Pentagon fosters and finances such pirating raids with millions of taxpayers' dollars. Industrial contractors are reimbursed for the cost of flamboyant advertising and hiring teams.

Raiding drastically cuts the productivity of the existing scientific work force, according to the Reader's Digest. Normally, only three or four per cent switches jobs in any year. Last year the turnover was nine per cent among engineers, 17 per cent in airplane manufacture. Time wasted throughout industry, by men between jobs and becoming familiar with new work, is now estimated to equal the full year's output of 30,000 engineers and scientists.

Highway Patrol

(Continued from Page 1)

accidents, speed has been one of the principal causes.

In nearly half of the ran-off-road accidents, Colonel Waggoner said, drinking has been a major factor. Most of the accidents were wrecks in which no other vehicle was involved.

"The fact that most of the ran-off-road accidents occur at night emphasizes the importance of excessive speed as a cause," the Colonel said, adding that most of the accidents happen on the open rural highways.

"The only way to cut down on the number of ran-off-road accidents is to convince drivers that drinking, speed, and inattention are a fatal combination.

"So far this year the state is above the one-third average for the ran-off-road type of accident, but we are under the total number of fatalities during the same period of 1956. More than half of these accidents occur on weekends when some drivers have a tendency to 'cut loose.'"

Strictly Ad-Lib

(Continued from Page 3)

Among jazz figures possibilities to tour Britain in the fall are Duke Ellington and orchestra and blues singer Jimmy Rushing.

Here are the top five best-selling jazz albums in the nation,

Vic Vet says

PEACETIME VETS MAY BE ENTITLED TO VA HOSPITALIZATION ONLY IF THEY WERE DISCHARGED FOR A DISABILITY INCURRED IN LINE OF DUTY OR ARE RECEIVING VA COMPENSATION FOR A SERVICE-CONNECTED DISABILITY



For full information contact your nearest VETERANS ADMINISTRATION office

based on a biweekly survey of 225 retail record outlets, as reported to Down Beat:

(1) Shelly Manne and His Friends, *My Fair Lady* (Contemporary 3527)

(2) Ella Fitzgerald, *Sings Rodgers-Hart* (Verve MG-4002-2)

(3) Erroll Garner, *Concert by the Sea* (Columbia 883)

(4) *Metronome All-Stars* (Clef

MG C-748)

(5) Duke Ellington, *Ellington at Newport* (Columbia 934)

The traveling salesman was held up in the west by a storm and flood. He wired his office in New York. "Delayed by storm. Send instructions."

His boss wired back: "Commence vacation immediately."

AUTOMATIC LAUNDRY

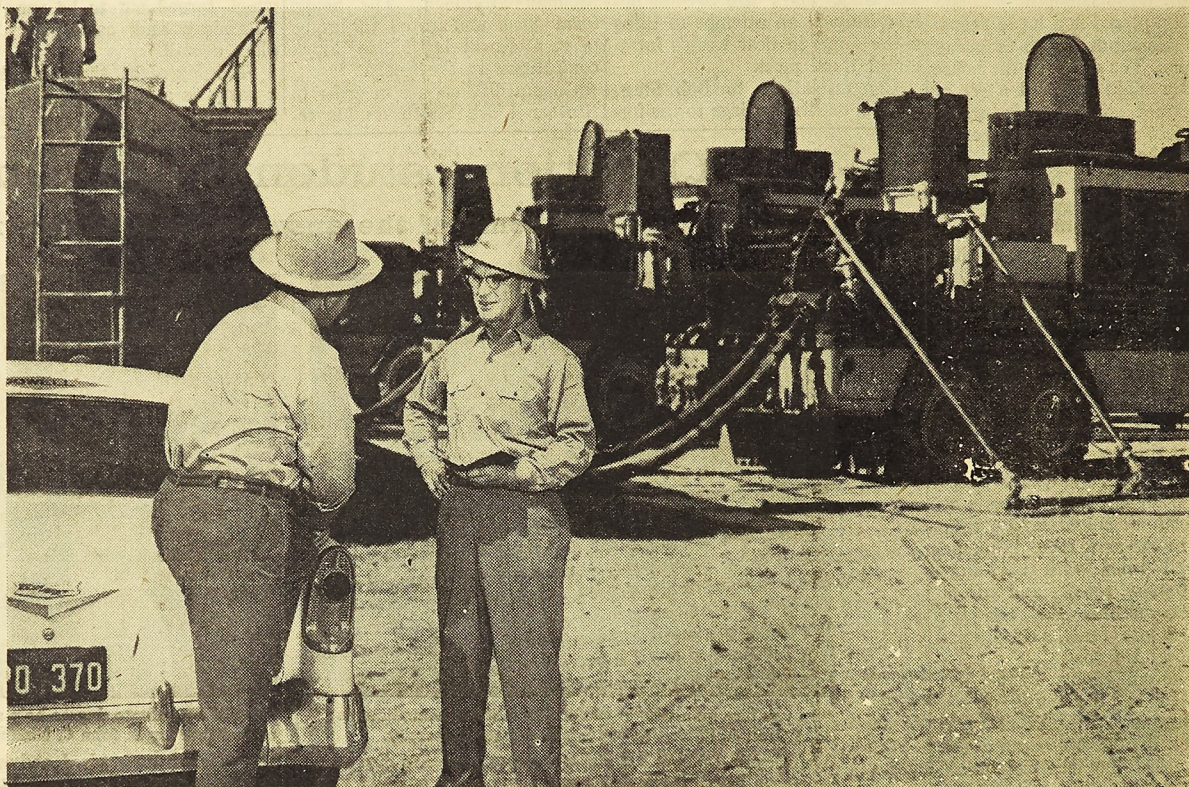
COMPLETE BACHELOR LAUNDRY SERVICE

35 MINUTES TO WASH—60 MINUTES TO WASH & DRY

Same day Shirt and Trouser finishing Monday through Friday

if brought in by 11 A. M.

CORNER 7th and ROLLA STREETS



A Dowell engineer will tell you the advantages of Allison aircraft-powered pumps.

Make fracturing treatments more effective with DOWELL auxiliary services



Fracturing treatments to improve oil or gas production often call for more than just sand and a carrying fluid. Special addition agents and auxiliary services can mean the difference between success or failure.

Dowell engineers have at their disposal a wide variety of fracturing aids to solve specific well problems. Here are four of the more important Dowell products and services that help you get even better results from fracturing.

MUD ACID* is a mixture of hydrochloric acid and hydrofluoric acids. It dissolves clay minerals and destroys the swelling and colloidal properties of bentonitic materials. As a spearhead, Mud Acid increases fracturing effectiveness by cleaning the formation face.

F. L. A.* (Fluid Loss Additive) is designed to lower the fluid loss of fracturing fluids. F. L. A. helps provide longer fractures and deeper penetration of sand. There are several kinds of F. L. A. to meet various well conditions.

FIXAFRAC* uses a temporary plugging material consisting of solids suspended in a fluid. These solids liquify after a short time and return to the well bore. Fixafrac is used between treatment stages to seal initial fractures or permeability, allowing new fractures to be formed in other sections of the pay zone.

FREFLO* is a mixture of chemicals that acts in three ways to prevent or destroy water block. It reduces surface tension, it partially destroys interfacial tension between water and oil, and it breaks emulsions. In fracturing treatments, Freflo is added to the breakdown and flush oil to prevent emulsions.

For more information or service, call any of the 165 Dowell offices in the United States and Canada; in Venezuela, contact United Oilwell Service. Or write to Dowell Incorporated, Tulsa 1, Oklahoma.

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✓ For information about employment opportunities with Dowell, see the company representative when he visits your campus or write the Personnel Department, Dowell Incorporated, Post Office Box 536, Tulsa 1, Oklahoma.