



26 Oct 1956

## The Missouri Miner, October 26, 1956

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# THE MISSOURI MINER

VOLUME 43

ROLLA, MO., FRIDAY, OCTOBER 26, 1956

Number 6

## Solution to Shortage of Mets and Ceramic Engineers Sought

CLEVELAND, OHIO, Oct. 26.—A frontal attack on the "progress-delaying and defense-endangering" shortage of metallurgists and ceramics engineers is being planned by a newly-formed group of scientists and engineers from industry, education, and government, working together under the sponsorship of three professional societies.

The Special Committee on Manpower for the Metallurgy and Ceramics Professions will seek to "do something about this critical problem" by creating a greater awareness of the importance of metallurgical and ceramics engineering. Announcement of the new organization was made by its chairman, Dr. George A. Roberts, immediate past president of the American Society for Metals and vice president for technology of Vanadium-Alloys Steel Company.

Sponsoring societies are the ASM, the American Ceramic Society, and the American Institute of Mining, Metallurgical and Petroleum Engineers. Members of the special committee include scientists and engineers from seven major industrial firms—General Electric, United States Steel, Alcoa, Carborundum, A. O. Smith, Midvale-Heppenstall, and Vanadium-Alloys Steel—and faculty members from Carnegie Institute of Technology, New York University, and Pennsylvania State University. There also are representatives from the Scientific Manpower Commission, Engineering Manpower Commission, and National Science Teachers Association.

Roberts pointed out the discouraging picture that has existed, saying, "Since 1950 the number of students graduating with bachelor's degrees in metallurgical engineering and ceramics has dropped 50 per cent of its former value. While 500 metallurgical engineers are being graduated annually now, leading industrialists have estimated conservatively that an average annual demand for 1000-1500 will be in effect for the next five years."

"The modern-day technology is (Continued on page 8)

## NOTICE TO STUDENTS

The faculty has voted to start the Thanksgiving Holidays at noon on Wednesday, Nov. 21, 1956.

Classes will resume on Monday morning, November 26.

Curtis L. Wilson  
DEAN

## Slam at Fraternity Life Answered With "Letter to Editor" In St. Louis Paper

The following article was printed in the Tuesday, October 23, edition of the St. Louis Globe-Democrat. It is an answer to a recent article that appeared in that paper, degrading and tearing down fraternities and fraternity life. The letter below to the editor was written in answer to the article.

To the Editor:

The article in the American Weekly Magazine concerning fraternities presents, I'm afraid, a rather prevalent and erroneous viewpoint shared by many and based, not on fact, but on prejudices formed by Hollywood and hearsay.

This letter is not being written in anger, spite, or to bolster any inner feelings of "immaturity, insecurity or inferiority." It is being written because I am somewhat surprised that a magazine of national circulation would print an article that is a statement of opinion without supporting facts, and is, from the standpoint of logical attack, rather pointless.

Through the years Hollywood has painted a picture of a "typical" fraternity man—rich, spoiled, carefree socially and indolent academically. Nothing could be farther from the truth. The press consistently plays up isolated fraternity misdemeanors while neglecting fraternity services. Please don't misunderstand me. Such things as the death of a young man due to thoughtlessness and a misguided sense of humor are as abhorrent to a fraternity member as they are to any right-thinking citizen. The fraternity system as a whole, however, cannot be judged on isolated incidents any more than a race or creed of people can be judged by the actions of a few of their members.

I mentioned fraternity services. On campuses around the country fraternities are engaged in community service work and projects. These acts are usually performed without fanfare or publicity, and solely for the benefit of the community or individuals concerned. From the National Interfraternity Council down to individual chapters, emphasis is placed upon individual scholarship. In many fraternities, various awards and financial assistance in the form of scholarships are offered to members as incentives to better scholastic achievement. While Mr. Wilson may think it rather unnecessary and silly, we in fraternities consider it a personal service to learn such things as brotherhood, the social amenities, and the ability to converse and

## National Teacher Exam to Be Feb. 7

—The National Teacher Examinations, prepared and administered annually by Educational Testing Service, will be given at 200 testing centers throughout the United States on Saturday, February 9, 1957.

At the one-day testing session a candidate may take the Common Examinations, which include tests in Professional Information, General Culture, English Expression, and Non-verbal Reasoning; and one or two of eleven Optional Examinations designed to demonstrate mastery of subject matter to be taught. The college which a candidate is attending, or the school system in which he is seeking employment, will advise him whether he should take the National Teacher Examinations and which of the Optional Examinations to select.

A Bulletin of Information (in which an application is inserted) describing registration procedure and containing sample test questions may be obtained from college officials, school superintendents, or directly from the National Teacher Examinations, Educational Testing Service, 20 Nassau Street, Princeton, New Jersey. Completed applications, accompanied by proper examination fees, will be accepted by the ETS office during November and December, and in January so long as they are received before January 11, 1957.

## Record Attendance At A.S.C.E. Meeting

A record attendance of 127 members and 28 guests were present at the October 17 meeting of A. S. C. E.

The big attraction was the film showing the actual sinusoidal movement of the Tacoma Narrows Bridge near Seattle, Wash., before it failed in 1940. Sinusoidal motion was of two types, mainly, vertical and torsional. The motion was due to the air foil effect of the closed deck on the bridge. Its middle span failed on a day when the wind velocity reached 70 mph.

The picture also showed studies made on scale models of the bridge with scale wind velocities.

associate compatibly with others.

If Mr. Wilson is correct in his conviction that fraternities are childish and that no brilliant, psychologically whole and mature student could join a fraternity, then our nation has been shaped by clumsy hands. I wonder how we've survived, what with so many industrial, civic, entertainment, professional, political and military leaders with strong fraternity affiliations.

LLOYD C. LACINY,  
Sigma Phi Epsilon Fraternity  
Missouri School of Mines

## Lincoln Arc Welding Awards Scholarships; Two MSM Students Win

### Applications for Awards for Study in Mexico Due Nov. 1

November 1, 1956, is the closing date for application for graduate and undergraduate awards for study in Mexico during 1957, it was announced today by Kenneth Holland, President of the Institute of International Education, 1 East 67th Street, New York City.

Sixteen awards are offered by the Mexican Government, through the Mexico-United States Commission on Cultural Cooperation, for the academic year beginning March 1, 1957. These awards are open to men and women preferably under 35 years of age and unmarried. Applicants must be U. S. citizens. Other eligibility requirements are: a good knowledge of Spanish; good academic record (and professional record if the applicant is not a recent graduate); good moral character, personality and adaptability; and good health. Preference will be given to graduate students. Only junior and senior students are eligible to apply for undergraduate scholarships.

Recommended graduate fields of study are: architecture, Indian and physical anthropology; ethnology and archeology; museography; art (painting—open to advanced students only); cardiology and tropical medicine (for candidates with M. D. degree); biological sciences; and Mexican history. Other fields are not excluded. For undergraduates the fields of philosophy, language and literature are recommended. Specially qualified students may study Mexican history, ethnology, archeology, and physical anthropology.

Although these grants are designed to cover full maintenance and include tuition, applicants should be prepared to pay for travel costs and incidental expenses.

Candidates should apply to the U. S. Student Department of the Institute of International Education, the agency which administers the Mexican Government awards.

The James F. Lincoln Arc Welding Foundation of Cleveland, Ohio has announced awards in its engineering undergraduate mechanical and structural design competition. The awards represented top honors in this annual national contest. A total of 46 awards were made to students in 29 different schools. They were made to engineering undergraduates for their mechanical or structural designs in which arc welding was used. Designs ranged from small machine parts to large bridges.

Three Grand Awards are presented to those submitting the best three articles. The First Award of \$1250 went to Wayne Quinton of Seattle. Second place of \$1000 was taken by John Tierney and Karl Bartsch of New York. Richard Moran of Canton, Ohio received the third place award of \$500.

Two M.S.M. students also shared honors in this contest. Congratulations to Charles A. Soriano who is enrolled in the Mechanical Engineering Department and James E. Long who is registered in the Civil Engineering Department. Soriano is from Paterson, New Jersey and Long resides in Downey, California. Their papers placed in the Fifth Awards Category of the contest in the Mechanical and Structural Divisions, respectively. Soriano entered a paper dealing with the design of an Automatic Cut-Off Machine, while Long submitted an article concerned with the design of a Prefabricated Short Span Deck Girder Bridge. These students are to be complimented for participating in the program. They received an award check of \$50 with a certificate of recognition.

A competition similar to the previous one is being carried on by the Foundation for the current school year. The Lincoln Arc Welding Foundation sponsors this contest exclusively for engineering undergraduates. Its purpose, the Foundation states, is to give students an opportunity for professional recognition through the execution of welded design of their own imagination and ingenuity.

## Homecoming Schedule

Friday, November 2

- 2:00 p.m. MSM Alumni Association Board of Directors Meeting, Room 107, Mining Building.
- 7:00 p.m. Dutch Treat Dinner—Pine Room, Greyhound Bus Depot.

Saturday, November 3

- 9:00 a.m. Registration—Parker Hall.
- 10:45 a.m. Annual Meeting—MSM Alumni Association, Auditorium, Parker Hall.
- 12:30 p.m. Class Luncheons—Fraternity Reunions.
- 12:30 p.m. Open House—St. Louis Section Host, Pennant Hotel.
- 2:00 p.m. Football—Miners vs. Northwest State College Bearcats.
- 7:00 p.m. Annual Homecoming Banquet—College Inn, Hotel Edwin Long.
- 9:00 p.m. Homecoming Dance—Jackling Gym.
- 9:00 p.m. Open House—Pine Room, Greyhound Bus Depot.



## 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.

Subscription Price \$1.00 per Semester. (Featuring Activities of Students and Faculty of M.S.M.)

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THE STUDENT COUNCIL  
UNIVERSITY OF MISSOURI  
SCHOOL OF MINES & METALLURGY  
Rolla, Missouri

601 West 11th Street  
Rolla, Missouri  
October 19, 1956

The Missouri Miner  
Rolla, Missouri  
Dear Editor:

I have been authorized by the Traffic Safety Committee, of which I am a member, to answer in part the question posed by you in the October 19 issue of the MINER. I feel obligated to mention that portions of the Traffic Regulations as printed in the aforesaid issue of the MINER might very well be misconstrued by the student body.

Copies of these regulations, based on those set up by the Board of Curators, will be distributed to the students in the near future, at which time it is hoped that a better understanding of the problems which face not only this committee, but the entire student body, may be brought to light. The School not only has a responsibility for the health and safety of the students; it must also discharge this responsibility to the utmost, in order to achieve the purpose for which it was founded. The School obtains the authority to issue operator's permits from the Policy Committee Dean Wilson, and ultimately, from the Board of Curators. The School does not prohibit the driving of cars on the streets of Rolla, as long as the student complies with the scholastic requirements as set down by the school, unless the student enters a specific category as set down by the Regulations. While it must be granted that the streets of this town do not belong to Missouri School of Mines and Metallurgy, no amount of order might prevail if the School could not act in a disciplinary measure against those students who conduct themselves in a manner contrary to the rules of the school, whether it be on or off the campus.

The only manner in which the school might control a student, if he drives without a permit, at least at the present time, is to subject him to disciplinary action if he violates any of Rolla's traffic laws. The score is just this: after nine years of leniency, during which time these rules were in full effect at the University of Missouri, the School of Mines finds itself faced with an oversized traffic problem. The first attempt at the solution of this problem has been the edition of the Traffic Regulations, which will need revisions as it is put to use. But instead of needless griping and arguing, I wish to ask, on behalf of the Traffic Safety Committee and the Student Council, that the student body, through the Student Council and the MINER, submit possible and practical solutions to some of these problems which face everyone connected with the school.

Please feel free to call upon the Student Council and the Traffic Safety Committee at any time, if you might have constructive criticism in regard to these problems.

Sincerely yours,  
Dave Stolle  
President  
The Student Council

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### Letter To Editor

Mr. Student Motorist, I believe a few questions are in order, an answer of which I would like to see printed in this newspaper.

Just how many experts were consulted on the parking and traffic problems of the campus? Was due consideration given to the general feelings of the student body? Just what governing power levied the present traffic regulations?

So many more questions confront me as I discuss these problems with numerous students. Very seldom does a Triangle Fraternity meeting go by without a new questions of sorts arising and I doubt if Triangle is following anything but the general trend of the campus Fraternities.

Some questions have been answered by the Student Council but the answers are vague and evasive. Just what automobiles are eligible for a parking ticket? Anyone parking on the campus without authorization or just the student automobiles? What about parents when they visit the School and don't park their automobiles 4 or 5 blocks from the campus?

Quite possibly I've been pulling a Rip Van Winkle so that I can't see the tremendous problem. I drive an authorized automobile in Rolla and I must say I've encountered more traffic at Grand and Naturay Bridge in St. Louis at 3 a. m. than I normally encounter around the M. S. M. campus.

Certainly there are more automobiles than before but then again there are more students. What would our grandfathers have done, put the horses out to pasture or constructed more hitch rails? Doesn't this problem of our grandfathers look strangely like the one in which the Freshmen are involved? Odd that in this day and age where mobility is no longer a luxury but a necessity, the non-progressive ideas should be conformed with by a seemingly progressive school.

Wouldn't it be better to see some constructive planning to relieve said problem (?) instead of levying new laws?

Questions, questions, questions, my kingdom for some answers. Am I the only uninformed student? Is my inquisitiveness apart from the general feeling? I doubt it.

Well, Mr. Student Motorist, would you like answers to these questions that undoubtedly affect us all.

Robert J. Urban  
Triangle Fraternity



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### Eta Kappa Nu Has 18 New Members

Eta Kappa Nu, the electrical engineering honor society, held its fall initiation last Friday, October 19. Eighteen men were admitted into the organization. Congratulations, men! Immediately following the initiation, a banquet was held at the Pine Room of the Greyhound bus terminal. The speaker for the banquet was Mr. Harold Hertenstein of McDonnell Aircraft. His talk, "Industry, the Next Step in Training" was very well received by all, and it touched on a subject too often neglected in the thinking of students about to graduate. The pledge award, an Eta Kappa Nu key, was awarded to Dave Sutton for the best accumulation of pledge points earned from a quiz, essay, and signed key.

President Liston Neely announced that for the third straight year the Missouri Mines Gamma-Theta chapter of Eta Kappa Nu had received national recognition for its activities of the past year. This is quite a distinct honor, and it reflects well not only of the chapter but on the school as well.

### Dr. Ernie Landen Guest Speaker at ASME Meeting

At the last meeting of the A. S. M. E., Wednesday, October 24, Dr. Ernie Landen of the Caterpillar Tractor Company, gave a very informative and interesting talk on "The Combustion Process in Diesel Engines."

Dr. Landen received his Ph. D. in Physics from the University of Missouri in 1938 and taught there for two years after completing his Doctorate. From 1940 to 1943, he was a physicist at Armour Research Foundation in Chicago, Illinois. He joined Caterpillar Tractor Co. in 1943 and since that time has held positions of Research Engineer, Staff Engineer and Staff Physicist. He is a member of S. A. E., the American Physical Society and the American Chemical Society.

At the end of the meeting applications for membership in the A. S. M. E. were accepted. The A. S. M. E. is looking forward to its largest membership this year, so if you haven't joined yet, join now. The A. S. M. E. is your organization, it needs your support. Join now. Join the American Society of Mechanical Engineers and help make it the best organization on campus.

John J. Lembeck

### Pershing Rifles Report

On October 11, 1956, Co. K-7 had its regular monthly meeting in the Military Building. It seems as though the door to the building was unfortunately locked when the troops arrived. We won't mention how the door got opened but I'm wondering where Hinds, Willey, and Rogers got all that previous experience. The Company decided to purchase new white helmets for every man

### STUMBLING AROUND THE CAMPUS

by Dave Stolle

... Goof of the week goes to JOHN MILES, in telling joke?: Nurse to patient: "Take off your chest" ... signs of our times: cracks in the walls of the Drawing Dept. covered with drawing tape! ... Daffynitions: Pebble Puppy — young rock hound; Glorified Plumber — Mechanical Engineer; Street Cleaner — Sanitation Engineer; Potmaker — ceramic; Bandy-legged Blacksmith — Metallurgist; Frustrated Physicist — Electrical Engineer ... Didjaknow Dept.: Bird dog bra ... used to make pointers out of setters ... 3 new types of bras on market ... Marshal Kruschew model — to uplift the masses; Drew Pearson model — makes mountains out of molehills ... Jack Benny model — to keep the old young ... A sweeping bow of plumed beret to BOB (Jack) SPRATT, who's turned in some fine epic-type pomes. From D. L. FRIZZELL (in Paleontology) was implied a rather generic use of the word "epicene" ... reckon that, as well as other verbal convolutions, can apply to the female of the species? With the number of students reading this on Hiway 66 each Friday, 'tis a wonder that MSM isn't called a "Trolley College" ... am waiting for the first rainy day in answer to the question: 'What's spaces?' ... for the Lucky with all the empty parking Strike Sticklers: B E A R - TRACK'S apron might be called a "crock smock" ... Tha's all she wrote.

in the unit. Another item of business, that passed unanimously, I might add, was the idea to have an "outing" Saturday afternoon, Oct 27th. Along with fun, fellowship, and a little competition among the troops, the usual Miner diet of refreshments and snacks will be served. Talks are that this year we might graduate from cans to the large economy size container. A P. R. Color Guard was selected and its members are as follows: Jim Chaney, Jan Paynton, Noble Newport, and Gary Cassidy. Let's hope these men eat a double portion of Wheaties the morning of Regimental Inspection so they can carry the Flags down the field instead of having the Flags carry them. P. R. will help this year with the setting up of displays in the Military Department and provided "Guides" in the Military Building this Parents' Day.

In closing I might add that our staff, along with the enthusiastic help of our advisor, Lt. Knox, is working hard to make our organization bigger and better every day but we can only help. It is YOU, the members and pledges of P. R. who are the ones that make our Company, and may I say with the words of the old Philosopher, "We're dang proud of you all, sons." Notice the title of this article—humorous—eh?

### AUTOMATIC LAUNDRY

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## MINER'S HALLOWEEN

'Twas an inky night when goblins grew,  
And the hordes of Hades were blood drunk through,  
While astride a broomstick an old witch flew  
On her way to Rolla town.  
On arriving there with her witch's craft,  
Of old black magic and demons wrath,  
She went flying along some eerie path  
Hunting some Miners down.

Oh, the sight of her was a glimpse of hell,  
From her snaggle fangs, blood drops fell  
To her garments clung that old death smell,  
She was horrid, wicked, and bad.  
But on her broomstick in the night  
She flew and seemed to enjoy the flight  
Ever careful not to miss the sight  
Of some innocent Miner lads.

From high above the trees and land  
She spied a daring Miner band  
Working fiercely as only Miners can  
For soon it would be dawn.  
The witch broke out her wan to wave  
And led the band so bold and brave  
And to them an idea pregnant gave  
To adorn the campus lawn.

Some objects of plumbing they chained to trees  
From the flagpole waved some B. V. D.'s  
Oh, there were many more than these  
That were done as would be seen.  
Advice she offered, courage she gave  
To the industrious, ingenious, resourceful and brave  
Miners that placed a stone on each grave  
On the lawn of the infirmary.

She cackled with glee at the crazy sight  
And sympathized with the Miners' plight  
For pills of blue, red, green and white,  
Wouldn't cure them of Hallowe'en.

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"Campus Cartoonist  
Of the Year" Contest  
To Be Held

For the first time in the history of humor, a search is being undertaken to find a young humorist from among the nation's colleges and universities, and bestow upon this young student the recognition he so rightly deserves as the "Campus Cartoonist of the Year."

Three of the world's foremost humorists, Groucho Marx, Steve Allen and Al Capp have joined forces with Bill Kennedy, prexy of Box Cards, the leading designer of contemporary studio cards to initiate a search which will start on October 15, 1956, and continue through December 1st, 1956, and end with the final selection from the ideas submitted to the judges of the student who is to be accoladed this year with the annual recognition of "Campus Cartoonist of the Year."

The contest will be channeled through the local college bookstore. Each college bookstore will have complete details, includ-

ing general information, rules and entry blanks for the contest. The stores will also have samples of Box Cards to enable the student who wishes to participate to see clearly the style of humor which will be judged in the contest.

There are absolutely no gimmicks involved. The student is under no obligation to purchase anything, including the Box Cards on display at the bookstore. The student need not be a Picasso nor a Rembrandt to enter. The basic idea is smart, contemporary humor which is sketched out simply on paper, just enough to give the judge a visible idea of the humor involved.

The winning student will receive a FREE all-expense paid seven-day holiday in Paris, France, via T. W. A. Trans-World Airlines Super-G Constellation.

In addition, the winner will receive a royalty contract with Box Cards which will enable the winner to immediately benefit from an exciting and lucrative career in the field of studio card designing.

The winner will also receive

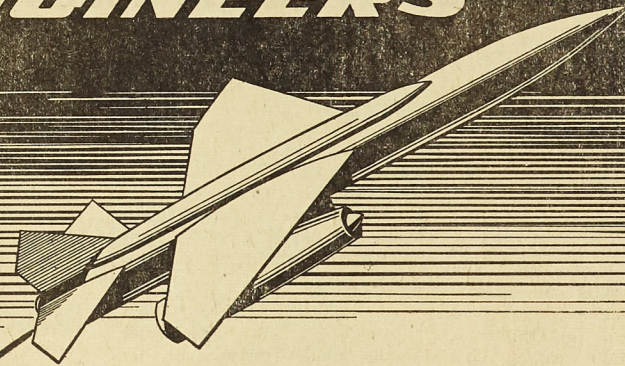
international recognition and publicity in newspapers, television, radio and magazines as a result of his selection by the three peers of humor, Messrs. Marx, Allen and Capp.

The contest definitely closes on midnight of December 1st, 1956. This is being done in order for the winning student to be able to spend his Christmas vacation in Paris, France, should he desire to do so.

Because of the fine cooperation the contest and its sponsor Box Cards has been receiving the college newspapers and magazines, the winner will be announced first in these publications. The announcement of the winner will be a national exclusive to the college publications which will predate its general release to all other media.

Additional stories, pictures and press material will be sent to the college publications to insure continuing interest on behalf of the students as to the progress of the quest to discover the nation's "CAMPUS CARTOONIST OF THE YEAR."

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For time and place of group meeting and for personal interview appointments—consult your

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This fine action shot came from the final game in Intramural Flag Football between Engineers Club and Theta Kappa Phi. Charlie Miller, quarterback of the Engineers Club, is shown picking up lots of yardage around right end. Theta Kap players trying to stop Miller are Niehaus, Colonna and Gunther.

## Engineers Club Wins Intramural Football

by Joe Masnica  
FLAG FOOTBALL

This week marked the end of the line for flag football. The season saw many changes in the overall makeup of the game. There was an addition of a third league and several new teams made their initial appearance. It was a season of upsets and victories, which added much spice to the sport picture at MSM.

The elimination in Football started the night of October 15, with Tech Club meeting Theta Kappa Phi. The first half was a struggle that saw no score. Each team was holding their ground and showing the stuff which made them their league winners. But in the second half, Tech Club ran two great plays which decided the game. Theta Kap was unable to score and the final was 14 to 0 in favor of the Tetch Club.

The next night saw a tired but spirited Tech Club take the field against an equally aroused Engineers Club team. These two powerhouses fought to a 6 and 6 tie by half time. But the advantage of injuries and good playing on the ground were too much for Tech. The Engineers scored four times and at the final whistle, the score was Engineers Club 27, the Tech Club 13.

The third night of play saw the first teams meeting for a second time. Theta Kappa Phi roared out against the Tech Club. The Tech Club showed great fight but the plague of injuries and a slow start proved too much for them. Theta Kap was in command all the way. The scoreboard showed the team for State St. the winner. The final score was Theta Kap 27 and the Tech Club 0.

The last night of play was the decision for the top spots. The Engineers Club met Theta Kap for the honors. It was a one-sided attack as the Engine Club really moved out. Theta Kap fought hard but lost in the air. The Engine Club took advantage of the interceptions and also took the victory 31 to 6 over Theta

Kap.

Congratulations to the winner of the number one spot, the Engineers Club, the 1956 Intramural Football Champs. A word of praise to the 2nd Place team Theta Kappa Phi and also to the third place winner, the Tech Club. It was a great season which saw not only good playing but what is more important, great sportsmanship.

### TABLE TENNIS

Now for a look at the Table Tennis Singles picture. In the winners play, Beta Sig won over Theta Kap. The losers tourney saw Pi KA take one from Wesley and BSU win from Tech Club. Pi KA outpaddled the Shamrocks and the Tech Club won over Sig Nu. The Singles play won't be decided until next week.

In Ping Pong Doubles, the Winners Tourney included a victory over Kappa Sig by Theta Kappa Phi. The losers side saw Lambda Chi win over KA and Wesley beat Beta Sig. Lambda Chi then went on to win over Wesley. The final standings will be tabbed for next week.

### TENNIS

There is one more final in Tennis singles. Eshbaugh won from Jim Gunther to take first place in that sport. Congrats to Bob Eshbaugh for a fine season of play. Second and third place was a family matter. Jim Gunther played his brother, Don, and as it was, age and experience took over. Jim defeated Don and that established Jim Gunther in second place and Don Gunther in Third. Good playing and congrats to Jim and Don.

The teams have started practice for Basketball and the Cross Country. We'll have more news about that next week. That about winds up the Intramural Sports scene for this week. Again congratulations to the winners in Football and Tennis.

*Intramural Football Points*  
Engineers Club—850.  
Theta Kappa Phi—750.  
Tech Club—700.

Tau Kappa Epsilon—662.5.  
Triangle—662.5.  
Pi Kappa Alpha—512.5.  
Sigma Phi Epsilon—512.5.  
Sigma Nu—512.5.  
Baptist Student Union—387.5.  
Lambda Chi Alpha—387.5.  
Sigma Pi—387.5.  
Shamrock Club—387.5.  
Sigma Tau Gamma—312.5.  
Beta Sigma Psi—312.5.  
Theta Xi—237.5.  
Wesley—237.5.  
Prospectors Club—237.5.  
Kappa Alpha—237.5.  
Dormitory—125.  
Dormitory "A"—125.

## PROSPECTING THE CONFERENCE

by Bob Ahlert

Our own boys lost their game with Springfield last Saturday here by a score of 9 to 7. This game should have been won with the chances they had.

One play especially seemed uncalled for. The Miners were on the Bears' five yard line with 2 yards to go for a first down with 2 plays left and they tried a pass which was intercepted. The Miners should have been able to make 2 yards in 2 plays and then they would have had 4 plays to make the TD.

There were two other intercepts by the Bears of Miner passes and several fumbles by the Bears.

Let's get on the ball gang and get that Keg back again next year.

\*\*\*

The boys at Cape must be feeling pretty sad these days after losing to Maryville last Saturday at Cape Girardeau by a score of 20-7. This makes three losses in a row for Cape, beginning with the loss to Arkansas Tech, which broke an eleven game winning streak.

The game was scoreless during the first half, but shortly after the beginning of the third quarter

(Continued on page 5)

## KONEMAN KICKS MINERS TO DEFEAT AS S'FIELD TAKES PARENTS DAY FEATURE 9-7

Playing before a jam packed Jackling Field, Parents' Day crowd, the Springfield Bears downed the Miners 9-7. The winning margin came from the toe of Springfield's Koeneman in the closing seconds of the first half. The Miners took an early lead in the first quarter and held the lead until Koeneman's field goal gave the Bears a 9-7 lead. This lead also proved to be the winning margin as no further scoring was accomplished by either team.

### FIRST QUARTER

With a huge crowd still pouring into Jackling Field, the Springfield Bears won the pregame toss and elected to receive. This meant the Miners were to kick-off and Parker replaced Helm in the Miner line-up. Parker got off a good kick to Price at the Springfield 10 and Price returned the ball to the 15 where he was hit hard by Northup and fumbled. The Miners recovered and after failing to gain around end Roger Feaster tossed to Wally Northup in the end zone for the first score of the game. Dale Rockwell converted for the Miners and the score stood Miners 7, Bears 0, with the game only one minute and fifteen seconds old.

Parker once again kicked off to the Bears. This time the ball went to Toler at the 5 and he brought the ball up to the 36 before being stopped by Don Roth. At this point the Bears unleashed a fine ground game, spearheaded by Thomas, the Bear fullback. The Bears picked up four quick first downs and the ball rested on the Miner 11. Kramer, the Springfield quarterback, sent Toler into the line for a four yard gain and the Thomas picked up five. At this point Kramer scored the touchdown on a quarterback sneak from the 2. Koneman failed to make the point after touchdown and the score stood Miners 7, Bears 6.

Koneman kicked off for the Bears and Allison brought the ball up to the Miner 20 on the kick-off return. In three downs the Miners picked up all but six inches necessary for the first down and were forced to kick. Allison kicked out of bounds on the Springfield 35. The Bears had just enough time to pick up a first down before the quarter ended.

### SECOND QUARTER

With the ball on the 50 yard line and Springfield in possession the second quarter began. After making one first down the Bears were forced to kick as the Miner line held. Hicks punted out of bounds on the Miner 12. The Miner ground game was once again completely bottled up and Allison had to kick out on forth down.

Birmingham picked up three before being run out of bounds on the Miner 39. On the next play Allison intercepted Birmingham's pass on the Miner 20 and returned the ball to the 40 where he was hit hard and fumbled with Springfield recovering.

With this bad break staring them in the face the Miners bounced right back and caused a Springfield fumble on the next play. Now with the ball on their 41 the Miners were once again stopped and forced to kick. Allison kicked out of bounds on the Springfield 41.

With both teams seeming to strengthen in the defense the Bears and the Miners were forced to kick. But the ball did not move any place as the Bears now had the ball on their 40. Kramer on the first play from scrimmage found confusion in his backfield and seemed to be trapped for a big loss but managed to break loose from a host of Miner tacklers and ran the ball to the Miner 40 yard line before being stopped. The Miners held, and forced Springfield to kick out to Allison on the Miner 20. For the fifth time the Miners were forced to kick and the Bears had the ball on the Miner 39. At this point Kramer passed to Hicks on the Miner 25 and Hicks carried the ball to the Miner 19. Springfield called time out with 40 seconds left in the first half and set up their field goal kicking combination. Koneman kicking from a bad angle to the left, 30 yards out, split the cross bars and the Bears had picked up three points and a 9-7 lead. There was just time for the kick-off before the half ended.

The first half found the Bears in complete charge of the situation and able to hold the Miners to one score and a net yardage of minus one yard. While the Bears were only able to put together one strong drive that finally paid off in a touchdown, they controlled the ball about 90 per cent of the time and gave the Miners little chance to show anything in the way of an offensive threat.

### THIRD QUARTER

The Miners came back on the field to start the second half and there seemed to be a difference in the attitude of the team. It wasn't something you could put your finger on, but rather an attitude they seemed to have.

Koneman kicked to Helm on the Miner 10 and Bob was almost away for a touchdown when he was stopped on the Miner 30. On the first play from scrimmage Helm was stopped for no gain and on the second Feaster picked up 5 on the quarterback option. On the next play Feaster found Helm in the clear at the 50 and hit him with a strike. Helm ran the ball to the Bear 13 before being caught from behind. In two plays the Miners were unable to gain and on third down Feaster attempted to complete another pass but that man Koneman intercepted on the goal line and ran the ball out to the Springfield 35. For the first time the Miners stopped the Bears without their first making a first down. Maraza kicked out for the Bears to the Miner 33. The Miner offense seemed to bog down and Allison kicked out to Toler on the Bears' (Continued on page 5)



### MINER-SPRINGFIELD (Continued from Page 4)

25. Just as Toler was about to take out for parts unknown Northrup hit him hard and Sinkewiz recovered for the Miners on the Bear 23. Feaster hit Parker for a gain of 6 and then picked up enough for a first down on the 13. Feaster once again took to the air and hit Allison at the 7. Feaster's next pass was incomplete and the next play lost two so the Miners called time out and decided to attempt a field goal. Rockwell attempted to kick the field goal from the 14 and it was blocked. Hicks caught the ball in the air in the end zone and ran the ball out to the 15 where he was knocked out of bounds by Parker, the last Miner that could possibly stop him! The rest of the quarter was a repetition of running two or three downs and fumbling by both teams. As the quarter ended the Miners had just recovered a Bear fumble on the Bear 46.

### FOURTH QUARTER

At this point the Miners started a good drive that brought the ball to the Bear 20 in 6 plays. Helm picked up 2 and Hill was stopped at the line for no gain. McPherson picked up 4 but his fourth down pass was incomplete and the Bears had once again stopped a Miner drive. Springfield couldn't do anything and kicked out. From this point on both teams played around mid-field with neither team making much headway. With about three minutes left in the game, Kramer of the Bears tried a quarterback sneak on fourth down and the Miners took over on the Springfield 48. At this point the Miners seemed to get panicky and Feaster threw four straight passes. All of the passes were incomplete and the Bears had the ball on their 48 with two minutes and five seconds left in the game. Kramer showed a lot of football sense by running his backs into the line and using the long count. Three plays used up a lot of time and then Springfield decided to take a five yard penalty for delaying the game by waiting until the officials had to call the penalty. With ten seconds left to play Birmingham took the snap from center and ran around in the Bear backfield until the game ended.

For the first time the Miner running attack was stopped cold at the important times. In the first half the Miners showed absolutely nothing but did come back in the second half to stop the Bears and get several drives started but they always stopped short of the goal line. The Miners had four chances to score or at least were deep in Springfield territory in the second half and each time an incomplete pass on fourth down or an interception killed the Miner chances. Nevertheless the Powder Keg has once again returned to Springfield. This game evened up the winning of the Powder Keg as the Bears won the trophy in 1953 for the first year it was awarded and then the Miners took it in 1954 and 1955. You can bet the Miners will be after it for sure next year.

### NOTICE - NOTICE - NOTICE

The Student Council will sponsor the second Pep Rally of the year at 7 p. m. Thursday, November 1st. Captains Herrick and Wright will give talks and the Cheer Leaders will lead a big "Yell" session at the bonfire. The Pep Rally will be held on the Intramural Field.

### PROS. THE CONF.

(Continued from Page 4)

ter the Maryville Bearcats racked on a 25 yard run by halfback Dick Powell.

The Indians then rallied to tie the game up on a 25 yard run by Hoffman, but Maryville was still going strong and scored again on a pass play from O'Dell to Mallen which was good for 50 yards and a TD.

The last touchdown for the Bearcats came when a pass bounced off the fingertips of a Maryville player to Booth who covered 15 yards for the tally.

Chalk up another win for Warrensburg. Saturday they walked over Kirksville for a 19 to 7 victory. This makes five wins against no losses this season for Central State Teachers.

Brooks scored two of the three TD's for Warrensburg with Bob Cross adding the remaining tally.

A 10 yard sweep around the end by Jack Perrin accounted for Kirksville's lone touchdown.

\* \* \*

### Team Standings

|         | W | L | %    | Pts. | Op. |
|---------|---|---|------|------|-----|
| W'burg  | 2 | 0 | 1000 | 32   | 13  |
| S'field | 2 | 0 | 1000 | 34   | 7   |

|         |   |   |     |    |    |
|---------|---|---|-----|----|----|
| Miners  | 1 | 1 | 500 | 40 | 15 |
| M'ville | 1 | 1 | 500 | 26 | 20 |
| K'ville | 0 | 2 | 000 | 13 | 52 |
| Cape G. | 0 | 2 | 000 | 7  | 44 |

### Vital Statistics of Teams

Leading scorers in conference games: Hensley, Warrensburg, 12 points; Thomas, Springfield, 12 points; Parker, Mo. Mines, 7 points.

Leading scorers in all games: Hensley, Warrensburg, 30 points; Helm, Mo. Mines, 25 points; Ellis, Cape, 24 points.

### Leading Rushers

|             | Carries | Yd. | Av. |
|-------------|---------|-----|-----|
| Ellis, Cape | 25      | 250 | 10  |

|               |    |     |     |
|---------------|----|-----|-----|
| Bren'ke, Cape | 20 | 166 | 8.3 |
| Hensl'y, Wbg. | 53 | 384 | 7.3 |

### Leading Passers

|                    | Passes | Comp. | %  |
|--------------------|--------|-------|----|
| R. McFarland, Wbg. | 18     | 12    | 67 |
| Powell, M'ville    | 10     | 6     | 60 |
| J. McFarland, Wbg. | 28     | 14    | 50 |

### Leading Pass Receivers

|                 | Recd. | T. | Yds. |
|-----------------|-------|----|------|
| Mallen, M'ville | 16    |    | 219  |
| Allison, Miners | 10    |    | 142  |
| Irvni, W'burg   | 8     |    | 126  |

### Leading Kickers

|                    | Kicks | Av.  |
|--------------------|-------|------|
| Clark, Maryville   | 5     | 36.6 |
| Hoffman, Cape      | 5     | 34.4 |
| J. McFarland, Wbg. | 11    | 34.1 |

## A Message from

*Warren Helberg*

E. E., Missouri School of Mines, Class of '43,



to ROLLA

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"Compared to some companies in aircraft work, Emerson is considered a medium sized company . . . and this, in my opinion, has tremendous advantages. At Emerson the individual's personal creative contribution is definitely of measurable importance to the company and is recognized as such. Consequently, his opportunities for advancement are much greater here. Furthermore, Emerson is a growth company and RIGHT NOW is in the midst of its most ambitious planned expansion program in history. This means the young engineer who joins our team now will have wide open opportunities. His career won't be blocked by the discouraging constriction of clogged up top levels characteristic of companies which have already reached full growth.

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There you have Project Engineer Warren Helberg's view of

the career possibilities awaiting graduating engineers at Emerson Electric. Warren joined Emerson in 1947 and was assigned to the design, development and testing of various fire control systems. Afterwards he handled a series of liaison jobs within Emerson as well as between Emerson and outside companies. Since then he has been project engineer with a variety of flight test and other assignments on complex electronic systems.

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Find out how you can get in on the ground floor of this fast growing, medium sized company. Meet Emerson's engineering representatives and talk your career over with them. Firm job offers can be made. If it's impossible for you to make a date, be sure to write or call A. L. Depke, Office and Technical Placement Supervisor, for full details.

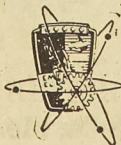
ENGINEERS . . . C. E., E. E., I. E., M. E.

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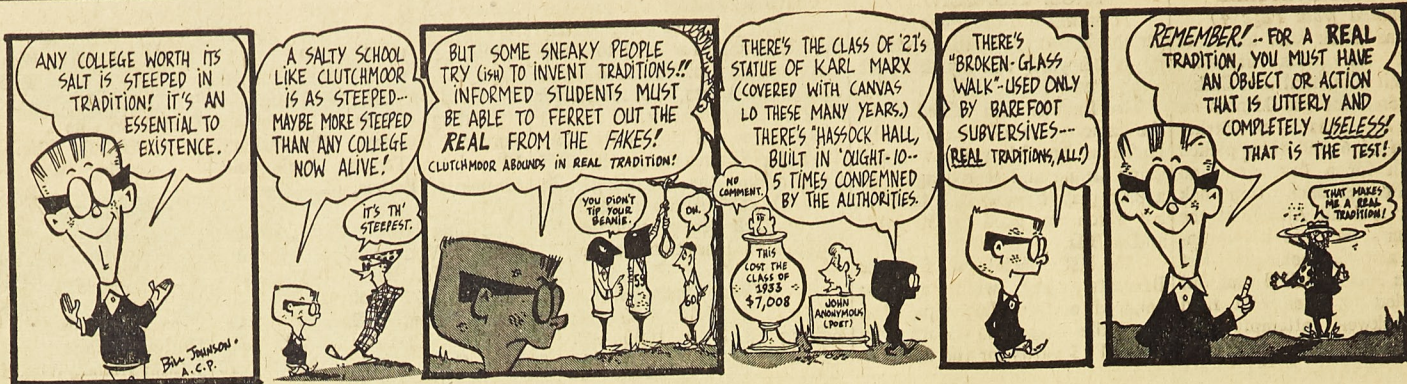


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## Fraternity News

### TAU KAPPA EPSILON

### PI KAPPA ALPHA

Once more there was a familiar sound heard among the pledge class which consisted of one BIG splash as the pledge trainer, Al Posner, was taken on a bathing party at Frisco Pond. To be more concise it was more like three splashes when Al decided he would like it better if he had a few pledges to join in the fun. Roger Finlen and Jim Mable, the 60 miles from Little Falls boys, were both willing to oblige. It is the custom for the trainer of the pledges to participate in an "extra-curricular" activity at least once a semester with the pledges, of course, "suggesting" the particular pastime. The pledges, it seems, had been returned the favor by the actives many-fold.

This past week-end was Parents' Day as everyone knows, and the TEKE house was filled with the parents of both the pledges and actives. A banquet was held in their honor at the Pine Room, followed by a short talk on the purposes and duties of pledging by Guy Heinrich.

### SIGMA NU

Who said the football season was over? The best is yet to come. Topped in importance only by the Rose Bowl, the colorful and exciting Pledge-Active Dust Bowl game will be staged this afternoon on, in, and about the intramural field. The actives, backed by an impressive record of fifty-three wins and no defeats, are slightly favored. In fact, I imagine we could almost predict the score. (Losers buy refreshments.)

Assuming anyone is alive this evening, the eternal grind of practice will go on for B-ball, handball, swimming, and cross-country. The roundballers look especially good, and everyone's got the will to win, so look out trophy, here come the Snakes.

Just when we thought we'd get a little chance to study, they're making us have another party. Oh, Drat!! (Anybody know what that means?) What with our new house and grounds, and extensive chapter publicity, we're expecting a tremendous alumni turnout for Homecoming.

**Ω**  
**OMEGA**  
WATCHES  
Authorized Agent  
**G. L. Christopher**  
Jeweler  
805 Pine Rolla, Mo.

Parents' Day provided another full weekend at the Pi Kappa Alpha house. It sure was a pleasure to meet all the parents and to renew acquaintances with the old ones. Some of the parents stayed over Sunday to make sure that their sons stayed out of trouble for at least one weekend. Glad to see so many parents down for the weekend. It just shows to go you how interested the parents are in their son's future. We all hope to make our parents feel proud of us someday.

Homecoming is about here. Many of the alumni will be coming down to see how the school and house are progressing. I imagine that Wahl and Wyman will be out drinking it up that weekend with their old buddies and maybe Adams too, if any of the real old timers come down. I am sure a good time is in store for all.

### BETA SIGMA PSI

After a wonderful time with our parents this weekend, we are anticipating the first stag party of the year. This "picnic" will be the initiation of the pledges to their first stag party at Rolla.

This party is in preparation for the first all-school function of the year. Since Homecoming has always been a big success in Rolla we feel that this one will be big-

ger and better.

Several of the guys have been in training for this occasion since the semester began, by regular trips to Columbia. It seems that they come back older and wiser by their experiences. I wonder why?

### LAMBDA CHI ALPHA

The jests and jeers between actives and pledges were quieted last week, Thursday, at our annual pledge-active football game. We had three great referees (actives) and almost everyone played. The most outstanding player was Zook, even if he did lose his shirt in the melee. Needless to say, the actives won, 26 to 13.

Our pledge dance was held on October 13th and the turnout was the biggest ever as almost everyone had a date. Many guests also put in an appearance for the evening.

A group of gals arrived from Drury as blind dates for some of the fellows but Crone, who was for a fair "straw drawing," was left behind by Lee, who asked the best material to be his date.

### TRIANGLE

Well, once the "Old Rock House on the Corner" groaned in its foundation as King's Night and Work-Week came into full swing this week. Its end was greeted by all the pledges with drooping eyelids and rasping throats. By the way, what's that I smell on the evening breeze, nobody but Rogenski and his limburger cheese.

The Triangle Pledges can now be recognized on the campus again. The "beanies" have finally arrived. Keep those "beanies" one finger above the eyebrows, boys.

Hey Urban, where are you?

### SIGMA PHI EPSILON

Tuesday night of last week we had, as guest speaker, Dr. James of the Chemical Engineering department. Upon completion of the meal, Dr. James talked on where the \$67.50, we pay for Hospital and Incidental fees, goes. I'm sure everyone is now clarified on this issue and realize that the larger part of the fee (is used to keep the school in operation.

Friday night, preparations for Parent's Day were in full swing. Our very exceptional pledge class thoroughly cleaned the downstairs in a record breaking hour and forty minutes. Saturday afternoon found the house bustling with the parents, who were taken on a tour of the house, and later served a dinner prepared in their honor.

Alumnus Rich Hampel paid us a surprise visit Friday afternoon. Rich is now stationed at Fort Leonard Wood and will have completed his tour of duty in two more weeks. He is also the proud father of a recently born baby girl which brings the total tally up to two girls, congratulations Rich.

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## KAPPA SIGMA

Parents' Day at the "Big White House on State Street" has passed and is considered to have been the best in recent years. Of course, the house was in tip-top shape for their inspection and we hope they were favorably impressed with the latest improvements that have been made. Homecoming is the next big weekend and plans are being made for a gala celebration for the returning grads.

The pledges think they know all about "fun week" now. This is due to an instructional period successfully carried out by the sophomores last week. Beware, pledges! You know neither when nor how.

We wish to extend a hand of welcome to Gene Russert, who was initiated last Monday, October 22. Congratulations, Gene.

## DELTA SIGMA PHI

At last our period of silence is about to be ended with a published article in the MINER. I certainly hope that an article will appear regularly from now on. This silence does not indicate inactivity on our part, however, as we have been progressing nicely. While the results of this activity are not immediately apparent, I am certain that its development will enable us to distinguish ourselves on this campus in the near future.

Charles Sullivan, who pledged during the summer, was beginning to become concerned, not worried, just concerned, about being our only pledge so far this semester. Not having a house as yet has reduced our pledging activities. But now Sully is much happier for last week we pledged Arthur Wogtech, Jr., and this week we added Don Walz, Charles Stanley, and Jack Lehr. Congratulations to all of you fellows!

## THETA XI

Theta Xi Fraternity would like to thank the Mothers Club for the tea given Saturday. It was an impressive affair, enjoyed by all.

The bleeders of Theta Xi came through again by running the blood types. We wonder how they can take blood with such a high alcohol content. Well, as long as they keep taking our blood, we will keep giving the most.

Preparations are already in progress at Theta Xi for Homecoming. Think of it—Homecoming and then all those wonderful mid-semester tests. Don't worry boys—all you can do is fail.

## THETA KAPPA PHI

After the first go-round of sports, the old "cow house" is out in the lead. A second in football and a first in tennis was enough to put us ahead of the pack. Congratulations footballers and tennis players, it is a job

well done. If we can continue to do so well, we will be sure to win the intramural championship.

Last weekend, Brother Art Fuesting got married. Congratulations, Art, may your marriage be a happy and successful one.

Everyone is looking forward to the big party which Dick Ross is giving in St. Louis tomorrow. It should be a grand and glorious time for all. But oh! those mornings after the night before. I guess you have to take the thorns with the roses. And Dick, watch yourself this weekend, you might have a date who is a retired prize fighter.

## ROLLER RINK

One of the newest additions to the recreational life in this area is the beautiful Rolla Roller Rink. Located just one half mile west of Pine Street on City Highway 66, the rink offers entertainment under the finest conditions—a wonderfully smooth maple floor—excellent rental skates—the newest recorded organ music and beautifully decorated surroundings.

A friendly welcome is extended to every one by the owners, Mr. and Mrs. Jack Austin. Any one who would like to learn to roller skate will be given all possible help to get started.

"How was the geology lecture?"  
"Fine. I was rocked to sleep."

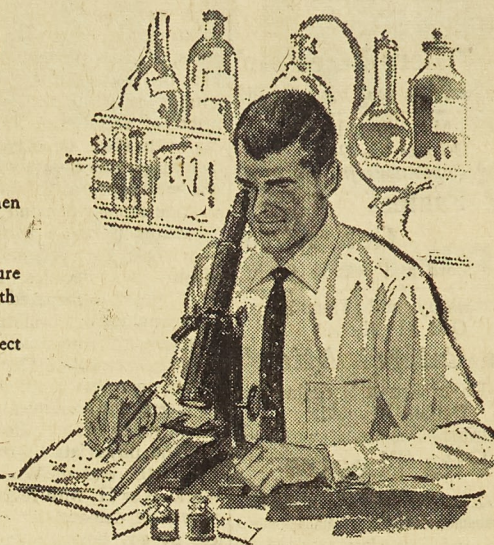
## Made this discovery yet?

You combine some very basic elements when you slip into this Arrow Par White shirt. Its medium-spread collar and handsome broadcloth fabric give you an extra measure of style. And because it's a soft collar (with stays), you're assured of comfort a-plenty. Add the English block print tie for a perfect final touch.  
Shirt, \$3.95; tie, \$2.50.

# ARROW

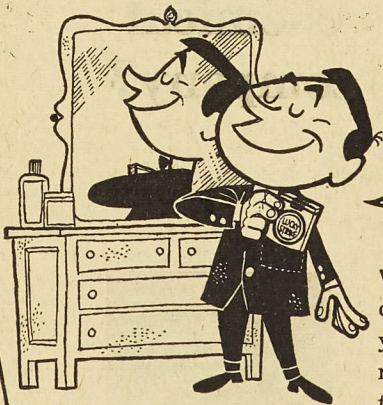
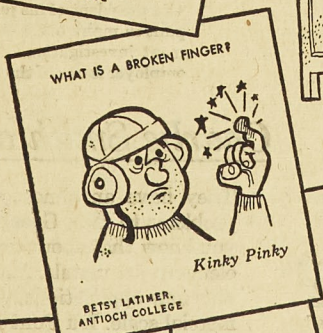
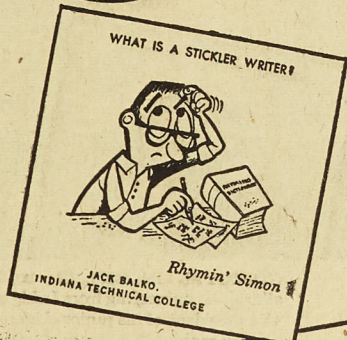
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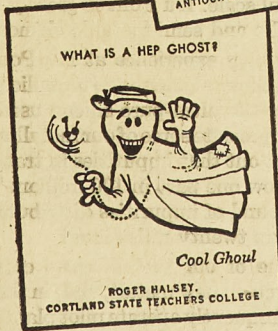


It's rhyme time! With a fresh batch of

# Sticklers!



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(SEE PARAGRAPH BELOW)



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WHAT'S THE LATEST thing in college clothes? Packs of Luckies, naturally. So if you've got a pack in your pocket, you're right in style. That explains the answer to the Stickler—it's *Dapper Wrapper*! Luckies are always in good taste because they're made of fine tobacco—light, naturally good-tasting tobacco that's **TOASTED** to taste even better. Got a pocket? Stock it—with Luckies! You'll say they're the best-tasting cigarette you ever smoked!



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TOASTED"  
to taste  
better!

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## Uptown Theatre

### MOVIES IN CINEMASCOPE

Thursday, Friday and Saturday,  
October 25-26-27

### 'Somebody Up

#### There Likes Me'

Paul Newman and Pier Angeli

Sunday, Monday and Tuesday,  
October 28-29-30

Sunday Continuous from 1 p. m.

### 'The Fastest

#### Gun Alive'

Glenn Ford and Jeannie Crain

Wednesday and Thursday,  
Oct. 31 - Nov. 1

### 'The Catered Affair'

Bette Davis, Ernest Borgnine and  
Debbie Reynolds

## Ritz Theatre

MOVIES ON WIDE SCREEN

Friday and Saturday, Oct. 26-27  
Saturday Continuous from 1 p. m.

### 'Forbidden Planet'

Walter Pidgeon and Anne Francis  
— PLUS —

### 'The Vanishing

#### American'

Scott Brady and Audrey Totter

Sunday, Monday and Tuesday,  
October 28-29-30

Sunday Continuous from 1 p. m.

### 'The World

#### In His Arms'

Gregory Peck and Ann Blyth  
— PLUS —

### 'Riding Shotgun'

Randolph Scott, Wayne Morris

Wednesday and Thursday,  
Oct. 31 - Nov. 1

### 'The Virgin Queen'

Bette Davis and Richard Todd  
— PLUS —

### 'Kismet'

Howard Keel and Ann Blyth

## Rolla Drive-In

Opens at 6:30 — Starts at 7:00

Opens at 6:30—Starts at 7 p. m.  
Friday and Saturday, Oct. 26-27

### 'Wicked Woman'

Beverly Michaels, Richard Egan  
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### 'They Rode West'

Robert Francis and Donna Reed

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## SHORTAGE OF CERAMICS AND METALLURGISTS

(Continued from Page 1)

dependent for its progress entirely upon the development of materials having high strengths and high resistance to elevated temperature," Roberts said. "Jet engines, missiles and satellites cannot be advanced to perfection without better materials, and the principal engineering fields dealing with these developments are metallurgy and ceramics. It would not be unexpected to find that the average annual demand for B. S. graduates in these two fields is five times the present demand within two decades both are new fields compared to the other engineering professions, and past history is no criterion of future requirements. There can be no question that the metallurgical engineers and ceramics engineers stand today where the chemists and the physicists at the end of did at the end of World War I World War II, with respect to the growth of demand for their services by government, industry and academy."

"Actually, both metallurgy and ceramics engineering have become very sophisticated fields of science, dealing with such problems as atomic forces in crystals and the kinetics of chemical reaction between solids and liquids."

"The main problem that our study groups are revealing, is that our professions are so new and so little understood by the layman that a pitifully small number of high school students are sufficiently well informed to decide to go to college to prepare themselves for these interesting careers. Our job is to find out how they can be told at the proper time."

"Scholarship & encouragement should prove to be a valuable tool and the studies so far have shown that all too little scholarship aid is available at the freshman and sophomore college level in these professions whereas many schools have adequate support for worthy students in their junior, senior and graduate classes. More and bigger scholarships should result in greater awareness at the high schools as well as providing a highly deserving group of young

men coming into these fields."

To call you a man is to speak the truth; but to call you a stupid

idiot is to call you a man; therefore to call you a stupid idiot is to speak the truth.

## RAMEY'S BAR

1/2 MILE EAST OF ROLLA ON 63

On Tap

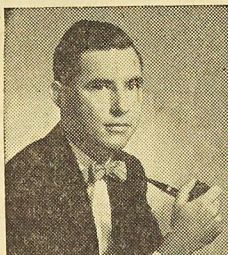
BUD

SCHLITZ

**MODERN**  
Dry Cleaners  
9th and Pine  
PHONE 392

## George Lincoln asks:

What do  
metallurgists  
do in a  
chemical  
company?



**CHARLES I. SMITH, JR.**, received his B.S. Ch.E. from V.P.I. in 1943, served in the Navy as an engineer officer, and joined Du Pont's Engineering Department in 1946. Since then, he has advanced steadily through a number of interesting assignments at various Du Pont plants. He was recently promoted to manager of the Technical Section of Du Pont's Pigments Department.

Metallurgists and Metallurgical Engineers can find some of Charlie Smith's challenging new problems described in "Engineers at Du Pont." For a free copy of this booklet write to E. I. du Pont de Nemours & Co. (Inc.), 2521 Nemours Building, Wilmington 98, Delaware.



BETTER THINGS FOR BETTER LIVING . . . THROUGH CHEMISTRY  
WATCH "DU PONT CAVALCADE THEATER" ON TV



**GEORGE M. LINCOLN, JR.**, expects to receive his B.S. in metallurgical engineering from Lehigh University in 1957. George was vice president of his junior class, is active in sports, and a participant in many other campus activities. He's starting his employment investigations early, for he feels that the selection of an employer is one of the most important decisions in a man's career.

## Charlie Smith answers:

They have an almost endless variety of interesting problems to face, George. As a student of metallurgy, you know that about two-thirds of all known chemical elements are metals. Many of them are revealing valuable new applications, when highly purified on a commercial scale. Du Pont is greatly interested in several metallic and semi-metallic elements.

My own experience at Du Pont ranges from work on titanium pigments, to metallic titanium production, and to the ultra-pure silicon used in transistors. You can appreciate some of our metallurgical problems when I point out that impurities in transistor silicon have to be below one part in 100 million. That's equivalent to one pound of impurities distributed through a train of ore cars twenty miles long!

Some of our metallurgists carry out fundamental research on new metals, and, in the development stage, they frequently operate pilot plants for producing them. Other metallurgists study problems relating to engineering materials used in construction, carry out research on intergranular corrosion, or investigate fatigue relationships encountered in dynamic, high-pressure operations.

You'll find many challenging opportunities in every phase of metallurgy at Du Pont, George.