

4-1952

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Volume 9 Number 7

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EL BURRO

"Reflecting the Collegiate Panorama at T.W.C."

35¢



A PUBLICATION OF
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COLLEGE

Cover Girl

OUR COVER GIRL this issue is Mary Dare Resley. It seems that Mary is Professor Graham's secretary. The engineers were soon taking frequent trips by the professor's office. Finally it got so bad that an investigation was begun. It was found that Miss Resley's charms were the cause of all the commotion. Picked unanimously by the engineers to grace our cover, Mary can well be described as "on the level" and perfectly engineered.

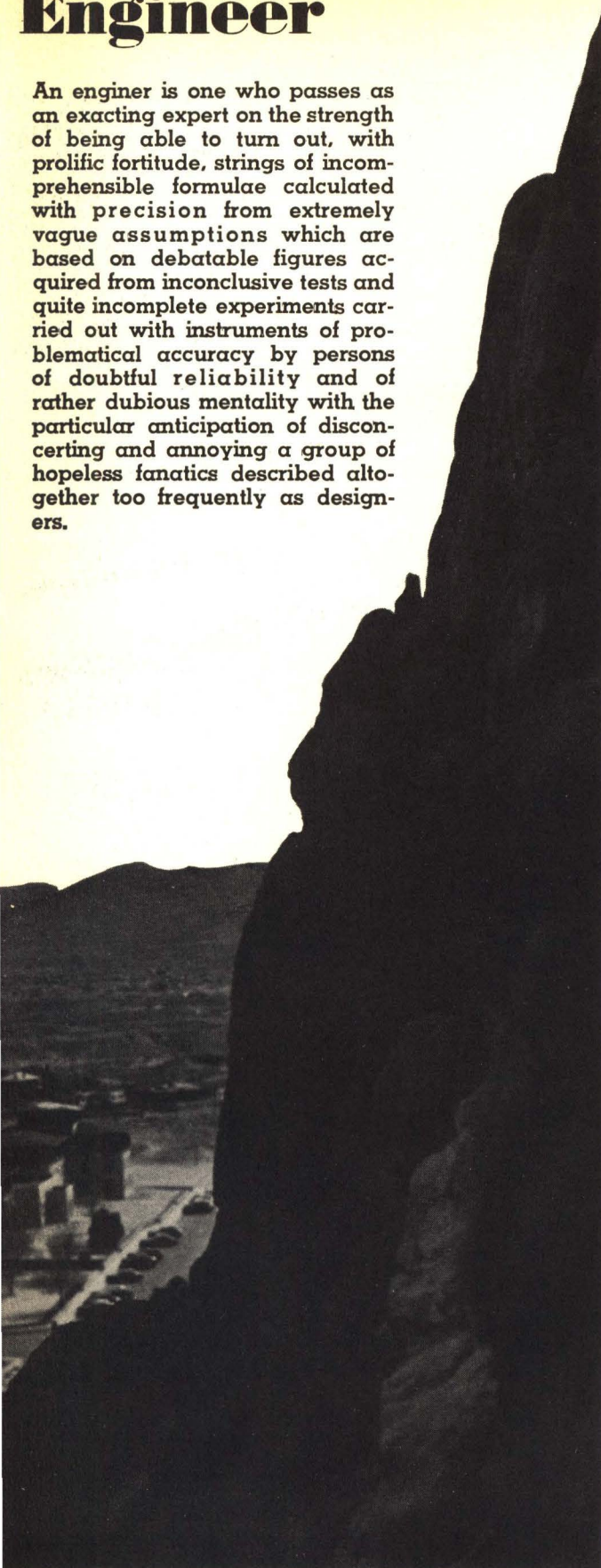


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S A M F A N T

THE Engineer

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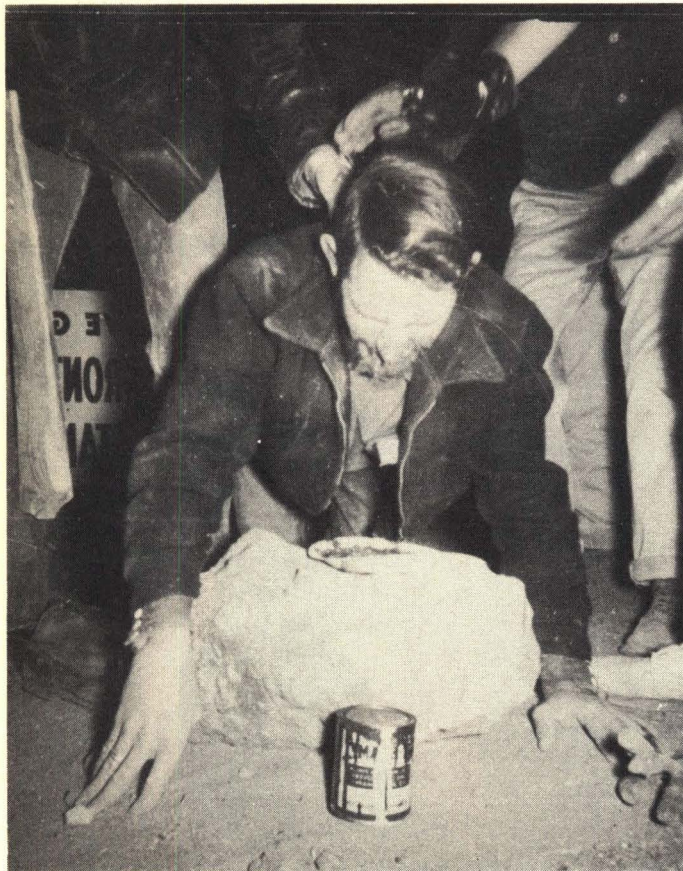
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I can throw it on the top,

Give me a pair of double engines and
be damned I'll ne'er stop,

Till I land a couple of wagons in the
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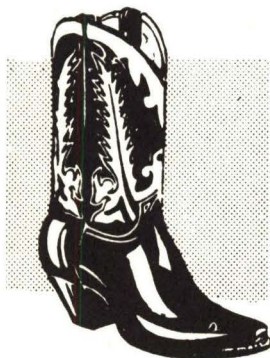
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Mr. Luis Perez
Texas Western College
El Paso, Texas
Dear Sir:

I see that Messers McLaughlin, Leasure, and Hovious have been generously given space to criticize the past editors of El Burro. Since you, Mr. Perez, have announced yourself on the side of democracy in the editor's note to the first letter, I feel called upon to write what is (more-or-less) quite another view, knowing you feel it no more than fair that others have their say.

Being a townspeople, my contact with El Burro has been through my step-son who sometimes comments on the magazine and usually leaves it around to be read. It is the only insight we have, except for his occasional comments, into affairs of the "collegiate panorama" (I believe that's the expression) at T. W. C. The whole furor seems to be over an article on modern art which, it struck me, is one of the only intelligent things El Burro has ever seen fit to print and the most ably illustrated. As a matter of fact, it was one of the only things that most of the colleges I know wouldn't have blushed to have printed. I admit the editors compromised: it has been obvious they didn't come for the El Burro brand of older highschool outlook, and yet they tried to straddle the fence. They are to be blamed for not having resigned.

Joke

Why was the Pharoah's daughter like a broker?

Because she got a little prophet from the rushes on the banks.

Lifted

Letters to the Editor should be addressed to: El Burro, Publications Office, Texas Western College, El Paso Texas. Letters MUST BE signed, names withheld for publication if requested. Maximum length, 200 words. The Editors reserve the right to shorten, edit, and express opinion on all letters.

It is to be regretted that those editors saw fit to use their final issue as just such an adolescent outburst as Mr. McLaughlin, himself a member of the avant grade, so ably cites. I must admit that it has crossed my mind that it might be a case of fighting fire with fire and must admit that I found the Babitt article a delight. But, of course, things turned out for the best. From the content of Jim Leasure's letter I can clearly see why he didn't appreciate the past few issues and have no doubt that if Mr. Leasure is quite the normal, down-to-earth, part of the TW panorama he says he is, that it is well that the editors have been shifted. As for Warren Hovious I can't say because I believe he had a story in the unfortunate January issue and seems to give the impression of rather desperately climbing off a sinking . . . or rather, sunk . . . ship, and is saving his own valueless neck.

Oh my yes, *do* reflect the collegiate panorama because that is after all your purpose.

Sincerely,

It was with such much interest that we read Mr. K's letter. It is gratifying to receive letters from people outside the college campus who write us and let us know what they think. However, no more letters that don't observe the 200 word limit.

—Editor.

EL BURRO

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Volume 9

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Letters to The Editor

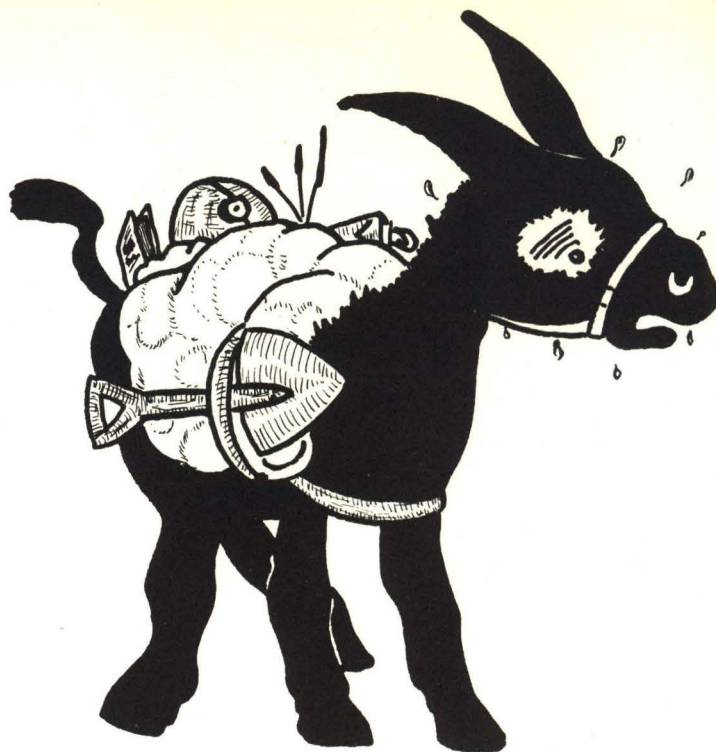
Snapshots

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Gregor
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AS HAS BEEN THE CUSTOM, the St. Pat's issue of "El Burro" has been turned over to we "westsiders," who have gone all out this year to give the "Peedogies" a super magazine. Although switching our talents from slide-rule to type-writer has not been in keeping with our training, we hope this issue of "El Burro," will be enjoyed by all. The Engineer's Council, an organization composed of three members from each of the three professional engineering societies, with the aid o some of the engineering students has done its best to present you with this magazine.

Sam Henricks, president of the AIME, Art Brieden, president of the AIEE, and Denny Ross, president of the ASCE, wrote up the histories of these respective organizations. Bill Regan, potential electrical engineer, managed to slip out of Mr. Decker's lab long enough to write his autobiography (The Last Lift). Coleen Ray, a geology student, has given the girls of the campus something to think about with her article on "Women In Engineering." Denny Rose, civil engineering student, slipped back into facts and figures and dashed

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Carrying the Load...

on this issue of El Burro
and next month's

some hot copy on "The Shortage of Engineers." Carl Norberg, while not combing his board, is the author of the "History of St. Pat's Day," and Tom Lindholm and Walter Baum, senior geology students, described a little of the events of Sigma Gamma Epsilon, honorary earth science fraternity. Bill Regan again came forth with his help and wrote up a character sketch on Felix, Dean Emeritus of the Engineering building. Bob Little, with the aid of Charles Dalrymple, is the author of "A Day in the Life of an Engineer."

Noel Longuemaure, Jery Hanners, Horace Perea, and Dan Regan get the credit for the articles of three faculty members of the west side of the campus. Advertising was handled by Denny Ross, Wally Hjalmsquist, Art Brieden, and I. B. Johnson. Sam Heinrichs, with the unanimous approval of the council members, picked our cover girl, while Horace Perea, who has quite an eye for the fairer sex, handled the last page.

In closing, I would like to thank Luis Perez, without whose help this issue would never have gone to press, and all those of his staff who aided him in presenting the finished product.

—Willy Hjalmsquist

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ST. PAT

THEN AND NOW

by Carl Norberg

A LOT OF YOU are no doubt wondering just why in the hell the engineers, of all people, always go wild on St. Patrick's Day. Surprisingly enough, there's a very good reason for all of this hullabaloo. Just what hold does this ancient Irishman hold over the engineers? — He's their Patron Saint!

Why? Well, it seems that in those bygone days we hear about, the land surrounding the blarney stone was pretty well infested with reptilian life. In fact, the place was lousy with 'em. We all know that the Irish like a scaly meal now and then, but for some reason or other they prefer the piscatorial (fish, thank you) variety. The milk snakes were driving the cows crazy. Irishmen were being chased over the landscape by whip snakes. The good, patient people finally decided that something ought to be done before the day when the Irishmen would be as rare as the dodo bird. But as you know, snakes aren't the easiest members of the animal kingdom to catch, and eliminating millions of them presented what seemed like an impossible task.

Fortunately, there lived in Emerald Isle at that time a man who went by the name of Patrick, which is as good a name as any for an Irishman. Being a loyal subject, and among the ranks of the first engineers of history, he volunteered for the job of ridding Ireland of the reptilian menace.

People laughed at him when he started out on his job with only an engineers handbook and an old drum, but within a few days he had driven all of the snakes into the sea, and it is for this great feat of engineering that he became Saint Patrick, Patron Saint of all engineers and Irishmen.

It is on the day set aside in his honor that the Irish wear their green, and the engineers pay homage by initiating new members into the exhalted ranks of Erin Go Bragh, the Guards of St. Patrick. The Irish have only their brogue and blarney to indentify themselves by, but any engineer can identify himself by the membership card shown.

ASSOCIATION OF COLLEGE ENGINEERS EL PASO CHAPTER ERIN GO BRAGH

Know all Min by these prisints, that

*has dooly kissed the blarney stone and suffered such other
privileges and honors, and has paid homage to his Patron
Saint.*

In recognition of which service he is hereby dooly dubbed

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Dean Emeritus

FELIX AQUINO



Seven years ago, Felix Aquino came to Texas Western College. Today or any day, he may be found in the engineering building on the campus. Felix is only the building janitor but every engineer knows him.

He came from northern Mexico and was naturalized in El Paso. He makes no bones about his citizenship. "I'm an American," he states emphatically, "and El Paso is my home town." Last year, Felix's mother was ill and badly needed blood. A small group of the engineers donated their blood for this purpose. This year on February 13, his mother passed away and all the engineers extended their sympathies in the form of a gift.

Felix's laugh is only one of his outstanding characteristics and many a graduate has taken with him the homespun philosophy as well as a memory of the man.

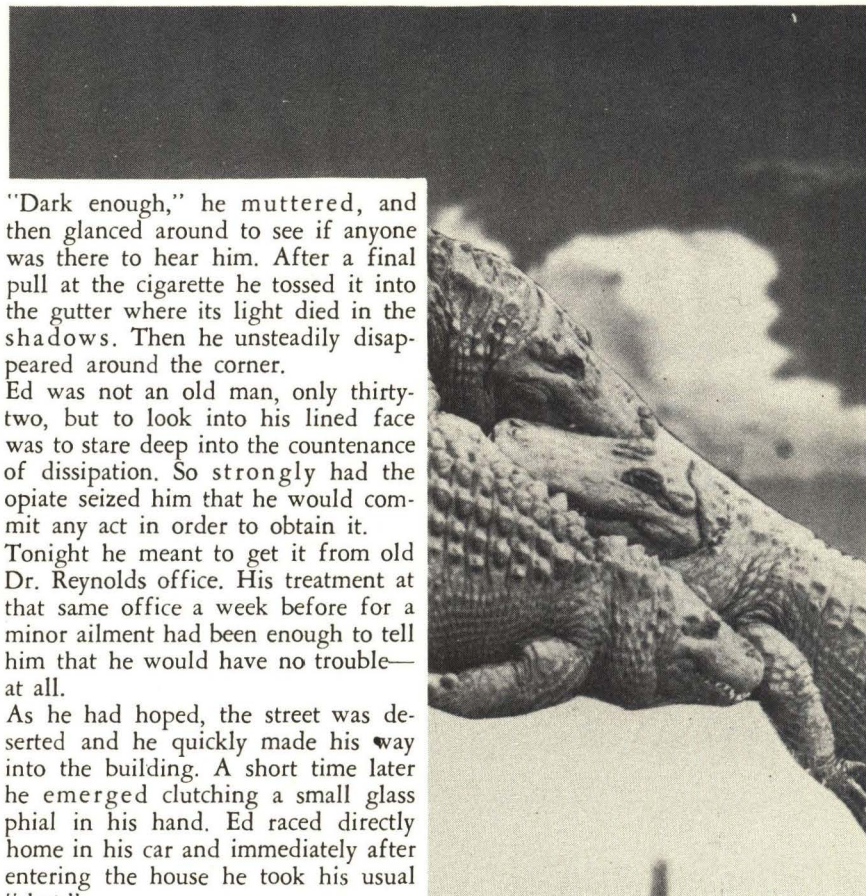


THE LAST LIFT



W. H. Reagan

ED BRITT LEANED against the building and stared at the sky with a pair of sunken eyes. Yet the heroin which dulled his brain had not impaired his eyesight and he appraised the blackness of the night.



"Dark enough," he muttered, and then glanced around to see if anyone was there to hear him. After a final pull at the cigarette he tossed it into the gutter where its light died in the shadows. Then he unsteadily disappeared around the corner.

Ed was not an old man, only thirty-two, but to look into his lined face was to stare deep into the countenance of dissipation. So strongly had the opiate seized him that he would commit any act in order to obtain it. Tonight he meant to get it from old Dr. Reynolds office. His treatment at that same office a week before for a minor ailment had been enough to tell him that he would have no trouble—at all.

As he had hoped, the street was deserted and he quickly made his way into the building. A short time later he emerged clutching a small glass phial in his hand. Ed raced directly home in his car and immediately after entering the house he took his usual "shot."

Time dragged slowly as he waited for the effects of the dose but when they came they were hardly those that he had expected. The "lift" came too quickly and there were strange shadowy things that flitted here and there. Time moved more swiftly and the faint figures became clearer now. Suddenly their hideousness was thrust upon him and before these ghastly beings dragged him into an abyss he ripped the air with one scream after another.



After the usual confusion, neighbors forced open the man's front door. They found the dead body of Ed Britt lying on the floor where he had fallen, his bloodless face twisted into a caricature of terror. In his hand was an empty phial and about the uncorked opening was a small amount of white powder which the draft from the open front door soon blew away.

To Dr. Reynolds, This morning was no different than any other. For that matter, why should it be. Still, he wondered about the small phial of white powder he had left in the opiate cabinet at the office.

Two weeks before, it had been heroin but what was it now? He remembered the strange little machine that his associate Gerhart had constructed. All the hours of work with the tiny winking lights, just to put a force field on a little powder. Gerhart had looked at the powder in disgust after it was all over.

"There should have been a change in the color, at least," he grumbled. Then he looked at the doctor and said, "We've failed."

Two years of work gone down the drain, thought the doctor. Two years of trying to take the habit forming properties out of heroin has just ended in failure.

But then, yesterday he had picked up the phial and absentmindedly studied it. "Same color," he mused. Then he saw it. The crystal size had undergone such a change that it was visible to the naked eye. The powder should have been much finer than it was. It was then that the nurse had called his attention to the patients who were waiting in the outer office and he had forgotten the phial in his work.

"This morning I'll find out what that change is," he said.

At the office, however, he found the door had been jimmied open. He spent the whole morning checking the instruments and drugs for theft but the only thing he found missing was the phial of powder.

"Might as well forget the whole thing," he said. "Probably my imagination about those crystals anyway."

The chief of police sat at his desk and mentally swore at the men in the lab.

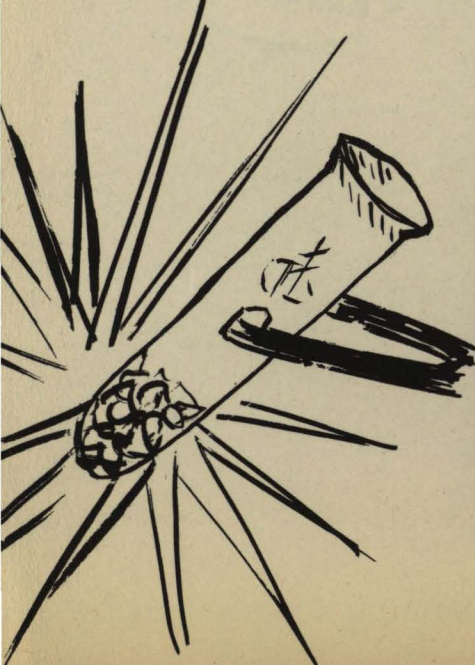
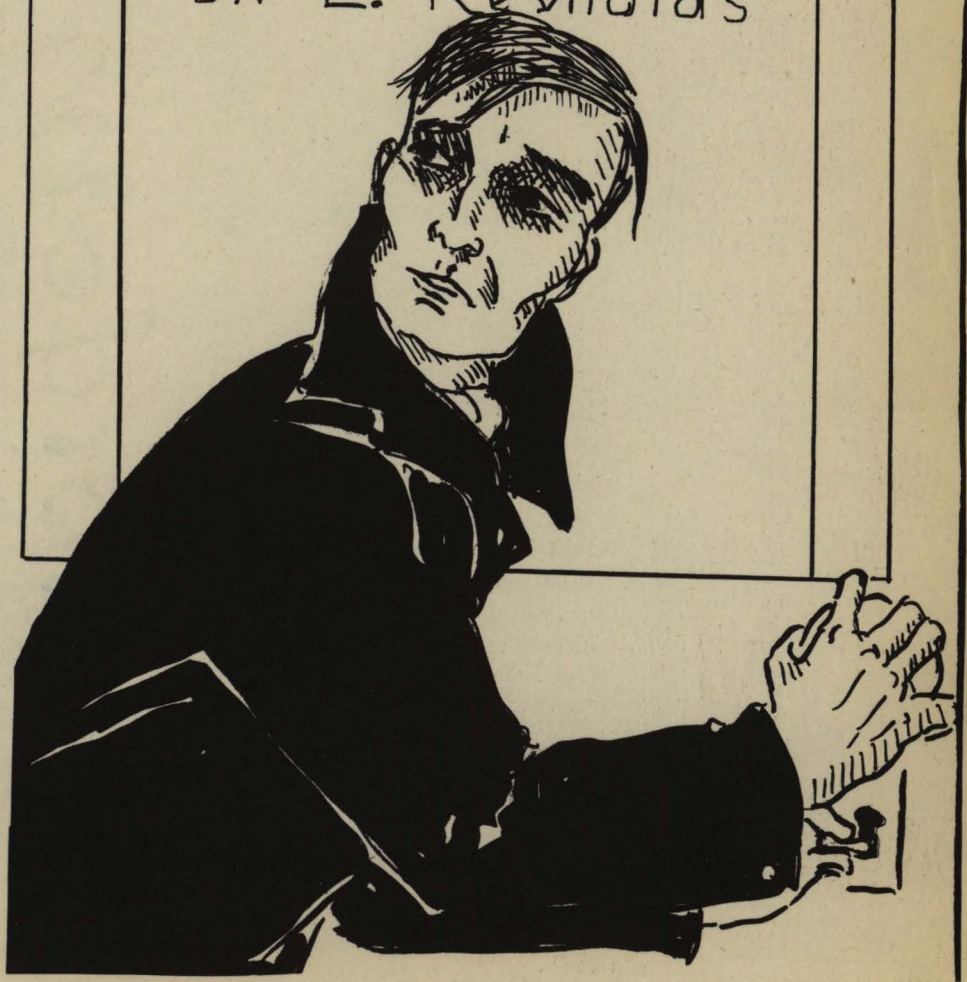
"They've had time to perform an autopsy on an elephant," he muttered. Finally the door opened and a lab technician handed him a report. The report said that Ed Britt had died as a result of a chemical action on the brain. Something had literally eaten his brain up, as if it had been digested.

"What kind of garbage are you trying to hand me," screamed the chief.

The technician answered, "Chief, I never saw any thing like it. It was as if somebody had poured acid in his ears but nothing had been touched except the brain. I don't think you'll get an explanation for this one, chief. There just isn't one."



Dr. E. Reynolds





A. I. M. E.

A. I. M. E.

The Scientific club was organized on the College of Mines Campus in the fall of 1915, its purpose was to stimulate interest in various sciences and promote fellowship between professional men and students.

Professor Seamon sponsored the club during its early days and established a prize to be given to the student writing the most outstanding paper on a scientific subject.

Prof. J. Graham, present head of the mining department, became the sponsor of the club in 1926, when the local chapter of the American Institute of Mining and Metallurgical Engineers was organized with many of the students attending the meetings. In the early 1930's the Scientific Club petitioned the national headquarters for a Student Chapter of the A.I.M.E. at T.C.M. In 1944, the large number of non-mining students belonging to the Scientific Club, caused the A.I.M.E. members to withdraw to be known as the Kidd Mining Club.

The Organization is now composed of 27 members and is sponsored by Prof. J. Graham.

President, SAM HEINRICKS

Vice-President, W. HJALMQUIST

Secretary, TOM WILSON

Favorite Prof

DR. RINTELEN RECEIVED his Bachelor of Science degree at Polytechnical Institute in Brooklyn, New York. He then received a teaching fellowship at Cornell University where he completed his Master of Science degree. Working then on a University fellowship at Duke University, he received his Doctorate in 1936.

Accepting a position with the International Nickel Company as a research metallurgist, he worked with various types of nickel compounds and alloys. He helped develop various nickel uses such a platinum covered or clad nickel-base vessels for use in chemistry. He also worked of the effect of calcium carbide on stainless steels. He became assistant superintendent at the International Nickel Company.

In 1942 Dr. Rintelen joined the United States Navy where he rose to the rank of commander. He did research and development work for the Bureau of Ordnance serving the Southern California, Arizona, and New Mexico area. He was Chief of Naval Inspection of Ordnance for the United States at the Bureau of Ordnance, Washington, D.C. He served sea duty aboard the U.S.S. Croatan, an aircraft carrier, and on the U. S. S. Missouri, where he received a commendation for his gun crews, who destroyed eleven Japanese aircraft. He has an accumulation of travel distance of $21\frac{1}{2}$ times around the world.



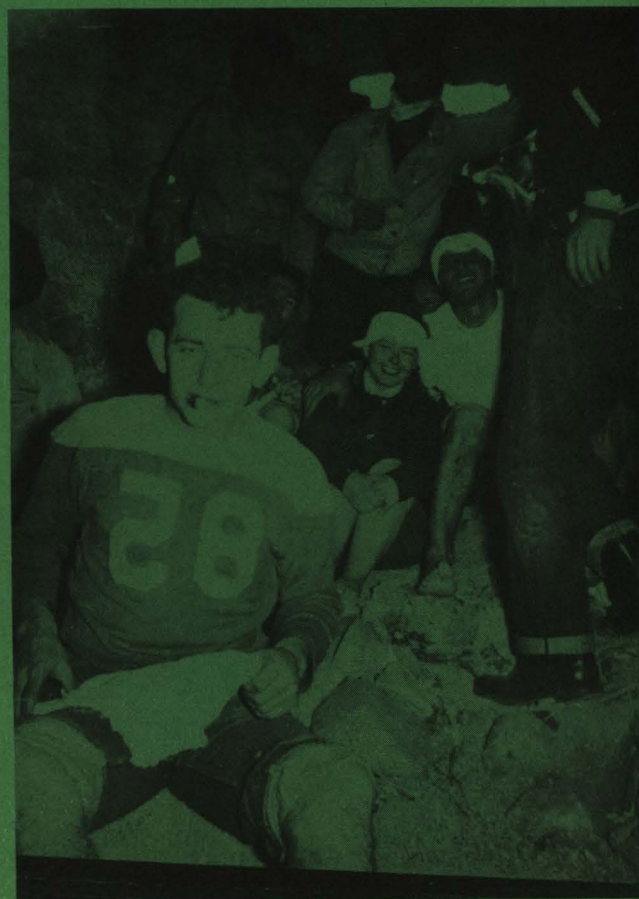
In 1948 Dr. Rintelen was associated with the New Mexico School of Mines at Socorro. He accepted the position as Associate Professor of Metallurgy at Texas Western College in 1949.

During Dr. Rintelen's association with the scholastic pursuits he has been connected with many organizations; among them Sigma Xi, an honorary fraternity; Sigma Gamma Epsilon, an honorary fraternity; Sigma Alpha Epsilon, a social fraternity; Omega Delta Phi, an engineering fraternity, and the Cornell Cosmopolitan Club. He also coached wrestling while at Carnegie Tech and Duke University. In regard to his views about metallurgy, Dr. Rintelen said, "A student of

metallurgy at Texas Western College without a doubt receives a much broader basic fundamental course in metallurgy than is gained in the Eastern colleges."

He also said, "A survey of salaries of metallurgists in comparison to salaries of other engineers clearly indicates that the acceleration of remuneration is considerably greater than in other fields of science and engineering."

Much of the preceding information about Dr. Rintelen was taken from the publication *American Men of Science*.



Sigma Gamma Epsilon

By Walton Baum and Tom Lindholm

IN A FEW DAYS a familiar scene will be reenacted on the campus. Students burdened with miner's hats, carbide lamps, field boots, and various other implements will be seen staggering under the weight of heavy mineral specimens. They will be busily engaged in collecting signatures and in carving the Greek letters EPE into the andesite behind the Engineering building. These students will be the new initiates in the national honorary professional fraternity Sigma Gamma Epsilon whose local chapter is Alpha Lambda.

The Alpha Lambda chapter was founded on the campus in 1940 by nine student members and three faculty members. Up to the present time there have been 143 associate and student members at Texas Western. Dr. L.A. Nelson and Mr. W. S. Strain, faculty advisors, contributed to the founding of this chapter and to its uninterrupted development.

Sigma Gamma Epsilon was founded to promote closer association, friendship, and a broadening of knowledge in the fields of Geology, Mining, Metallurgy, and Petroleum Engineering. Requirements for membership are at least fourteen hours of work completed in the major fields just mentioned, an over-all average of at least C, a B average in the major field, and sound character. A technical paper must be presented to the chapter by the new member.

Two initiations are held each year, spring and fall, with the chapter going to Carlsbad Caverns for the fall initiation. Last semester the mine and mill of the U.S. Potash Co. as well as the caverns where the ceremony is held was visited.

The spring initiation has for many years been held at Oro Grande in advance of the St. Pat festivities.

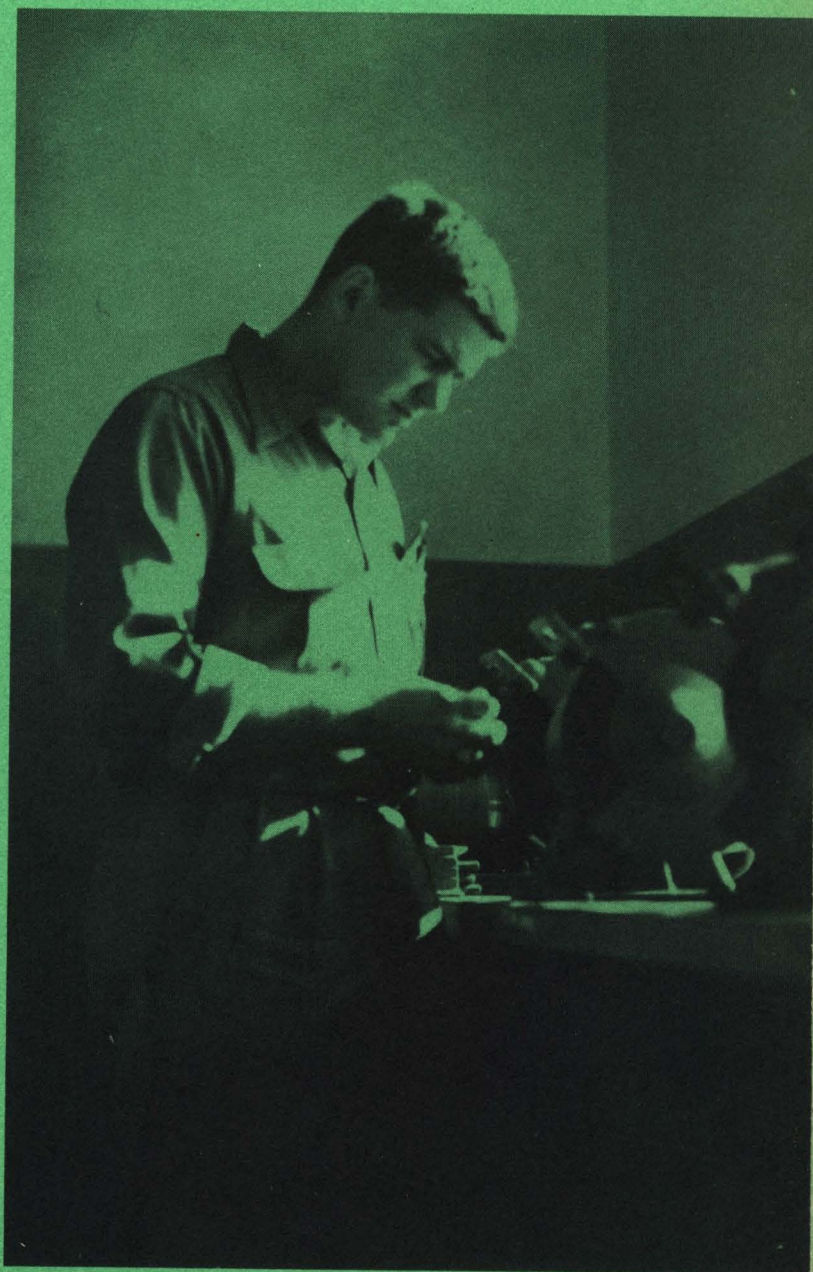
Associate members of the chapter include:

Dean E. M. Thomas; Dr. H. E. Quinn; Dr. J. C. Rintelin, Jr.; Mr. J. F. Graham; Mr. G. T. Hurley, Supt. Potash Company of America; Mr. J. P. Smith, Chief Geologist, U.S. Potash Co.; and Mr. B. T. Gale, Park Naturalist, Carlsbad Caverns.

The present officers are T. M. Lindholm, president; Mueen Abdullah, vice-president; Lee Roy Lunsford, secretary; and Robert Dickinson, treasurer.

Other members of the fraternity are: Wally Hjalmsquist, Bill Williams, Sam Heinrichs, Tom Wilson, Walton Baum, Frank Linville, Carl Norberg, Vic Cooper, Milt Klein, Claren Hoehne, and Don Schoenewald.

Prospective members are: Bill Morrison, John Fatheree, and Marion Spittler.



Mr. William H. McDill

My name is a clue to my age as I was born in the second year of Taft's administration. In the small Illinois town of Sparta our home was near the tracks of two railroads. Counting car and waving to the crews of passing trains developed a life-time fascination for railroading. Later, observation of the building of Illinois' highways drew attention to the men who wore high lace boots and carried transits.

A job on the dumb end of a chain and many days of carrying all the junk a rodman-chainman is expected to tote through the brush and weeds led to my observation that the man with the least to carry was the guy with the education. This brilliant piece of deduction led me to Missouri School of Mines at Rolla and four years of financial wizardry during the Geat Depression.

A B.S. in Civil Engineering in 1935 won me a job with a contractor at 85 whole dollars a month. Better times followed and experience in various types of jobs piles up (years slipped by, too). Highways, railways, construction of all kinds have been my chief interests but the opportunity to teach at Texas College of Mines was eagerly accepted.

The work at Texas Western has been rewarding and the promising future of TWC prompts a hope to continue on its staff.

F a v o r i t e
P r o f



A. S. C. E.



ASCE HISTORY

The organizational meeting of TWC student chapter of the American Society of Civil Engineers was held in 1947. First officers were elected and W. H. McDill, assistant professor of engineering, was named sponsor in January, 1948. A branch of the University of Texas student chapter, of the ASCE was organized to give the members a chance to become acquainted, to promote a spirit of congeniality among students to acquaint them with topics of interest in civil engineering and foster development of professional spirit.

The chapter is composed of students majoring in civil engineering and have at least sophomore standing. In five years of operation, the chapter has doubled membership.

Officers for 1952 are D. F. Ross, president, Oscar Cano, vice-president; Bob Hauke, treasurer; and Scott Slaughter, secretary.

HIS DAY

THE TIME, sun up; The day, any day between Sept. 28 and Aug. 22; The place El Paso, Texas.

The early morning smog, a gift of the local industries, is peacefully rolling into the city. The birds are chipping happily, traffic is at a standstill, and the sun is shyly peeping over the majestic peaks of Mt. Franklin.

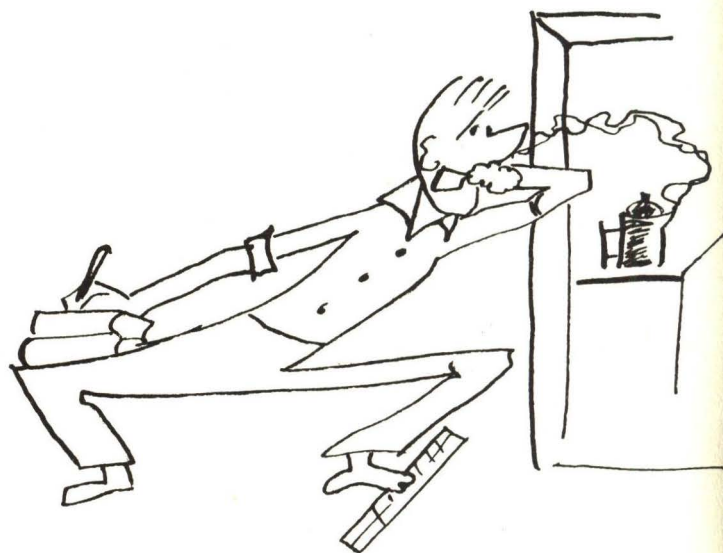
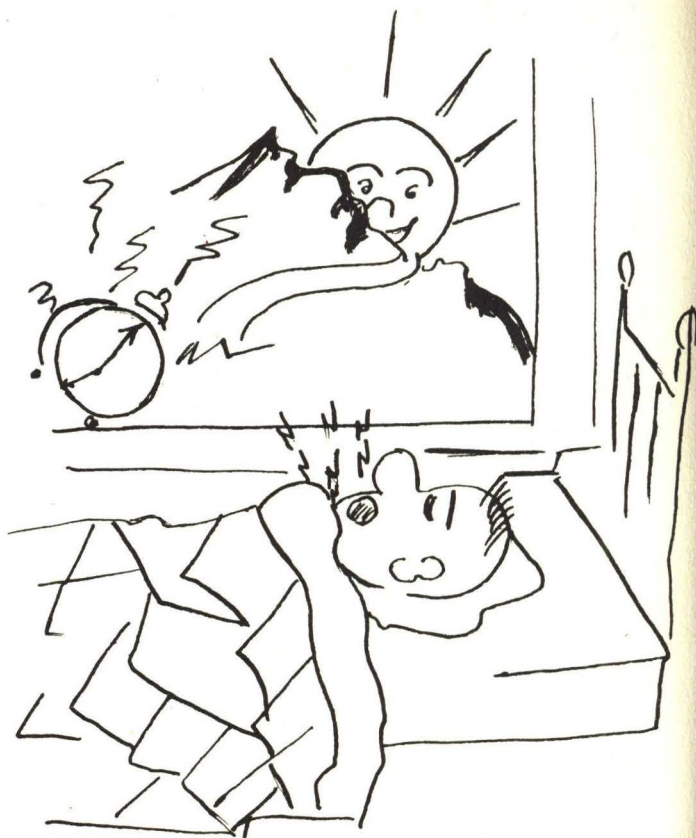
But, alas and alack all good things must come to an end. The dealer of this wicked blow, the creature so bold as to defy nature, comes in that form so well known to all as the black sheep of time pieces, the Baby Ben.

ALL HELL BREAKS LOOSE!

Bliss has returned to the other side of the mountain and peace to the other side of the river. Traffic becomes more congested by the minute as the city prepares for another busy day.

Among the happier of the early risers is the engineering student (enter the hero). He's cheerful as he brushes his teeth with his left hand, works calculus with his right hand, and skillfully manipulates his slide-rule with his toes. But then, why shouldn't he be happy! This is his easy. He only has four lectures and two labs in the morning, ten minutes for lunch and relaxation, followed by three scheduled labs in the PM. Now let's follow young Flotation McBeam as he loafs through his day of leisure.

The first stop on Flotation's schedule finds us in the midst of Euler's formula for eccentrically-loaded beams. This course serves to sharpen his mind for the next class which deals with Ferromagnetism, Paramagnetism, and Diamagnetism, which will not be explained here for obvious reasons, (lack of space.) With his head still spinning with isms, our hero retreats to the Geology building to check the development of his species of Brauneisenstein, v. limonite, Buttermilcherz, v. Cerargyrite and Galena (Galena is a lead sulfide). Floaty-boy is beginning to percolate as he next listens to the prof discuss a series circuit, which as everyone knows, is in resonance when the inductive reactance in the circuit just just neutralizes the capacitive reactance so that the nance when the inductive reactance in the circuit equivalent impedance is due entirely to resistance. (Ugh)



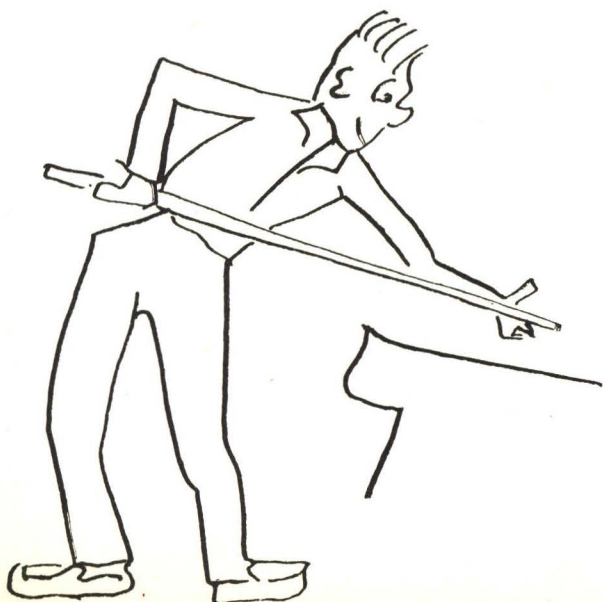


IT'S SIESTA TIME AT T.W.C.

Young McBeam, fully refreshed following his seven minute lunch and three minute siesta, gaily skips to the first of his afternoon labs. This class involved scorification, cupellation, parting and inquarting, none of which pose any problem for our hero.

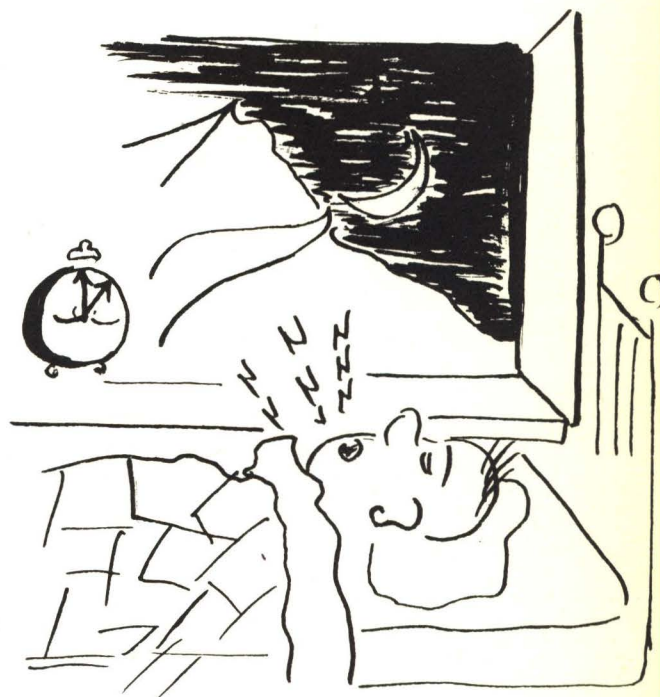
Not upon entering the Chemistry lab, Float confidently advances to pick up the results of four weeks of determining quantitative per-centages, looks at the results and bellows, "What the hell". Looking over his shoulder we observe written on his report sheet, "McBeam, you are too careless. Do you know what you were? .008% off in your calculations? Sharpen up young man, this is an unforgivable sin. Repeat all determinations!"

After reading this, life seems hopeless and the future looks grim, to young Mac. He decides to live recklessly and his first-move in this direction is toward the SUB, where he slowly sips a tall coke and then proceeds to shoot a game of eight ball, losing ridiculously to a fellow student who apparently received the same ultimatum from his prof earlier in the semester.



At this time our hero experienced a change of mind, for into the pool hall strolled the only four legged engineer in the world. As Flotation watched this brilliant scholar move from table to table borrowing tasty vittles, his rusty hair shining in the fluorescent light, a feeling of determination swept through his body. "If that dog can do it, I can do it," he dramatically says himself. He flung the pool cue across the room, scooping up his books he returns to his lab. The rest of the day seemed to fly by and soon it came time to be run out of lab. After a 40 minute wait Float finally boarded the bus. He took his seat amongst some well rested students who were obviously P-doggies. Getting an ear in their conversation he overheard them say, "I'm telling you Elmer, it's impossible. How in the hell can you possibly find the circumference when all you are given is the radius." The rest of the glance out the window. (You can see he is not a concientious student).

After six consecutive hours of pounding the books, Flotation McBeam retires to the sack for the night. Bliss returns from the other side of the mountain peace re-crosses the river, and all hell is recaptured. El Paso, is a scene of serenity. Tomorrow is another day.



QUIZ

1. Question—While out in the field you hear someone yell "Chain!" This means to:

a. Run like hell, they're getting ready to blast.

b. Take time out, for tea and crumpets.

c. Stop, you have reached the required distance.

2. Question — "Gooley" hands you a theodolite, what do you do with it?

a. Hand it back to him, explaining that you don't indulge.

b. If it isn't checked out in your name, throw it in the back of your car, and hock in the first chance you get.

c. Use it to survey with.

3. Question—In the event that Dr. Nelson asks you if you've had the Nodosaria, you should:

a. Become indignant and inform the doctor that you no longer inhabit such places in Juarez.

b. Explain to the doctor that you're a peedoggie, and have no idea what he is talking about.

c. Tell him that you just got through studying the fossil, in Paleo. lab., and returned it to its proper place in the Foraminifera file.

4. Question—A chemical engineer, indulging in a little research problem, takes a large vat and fills it with H_2O . To this vat he adds a generous quantity of $C_6H_{12}O_6$ and $C_{12}H_{10}O$. Next he adds CH_3O and $C_{12}H_{22}O_{11}$. Next he tosses in a ample amount of *saccharomyces cerevisiae* and to this, he deftly adds a pinch or two of $NaCl$. Obtaining a wooden spoon he violently stirs the solution, and then sets it in a place where heat can reach it. When it becomes sufficiently heated, what will he have?

a. A terrific explosion.

b. An "F" in chemistry.

c. A reasonable facsimile of beer.



5. Question — A very prominent but eccentric old lady was feeling very depressed one day. Figuring that she had been everywhere, and had seen everything, there was nothing left to live for. Suicide, then, was the only way out. Aside from being very prominent, eccentric, and filthy rich, she was also a perfectionist. Going to the family doctor she told him of her intentions, and inquired as to the exact location of her heart. The doctor figuring it to be just another of her eccentric moods, decided to deal with her psychologically, and nonchalantly informed her that her heart was two inches below her left breast.

Did the doctor's use of psychology work?

a. What in the hell does this have to do with engineers?

b. No it didn't work I forgot to mention she was also a sensationist, and reasoning, that the doctor had dealt too lightly with the project of her shooting herself, she went out and hung herself to the nearest almond tree.

c. It partialy worked. Going Home, she took a revolver and shot herself in the left knee.

6. Question—A priceless bit of information that every budding Engineer should know is:

a. A doctor buries his mistakes, and a dentist pulls his out, but an Engineer makes a monument of his.

b. Tis better to have loved and lost than never to have taken a Wassermann.

c. That you don't have to put up with this kind of—when you get out.

by Jim Leasure

Answers 1. c, 2. c, 3. c, 4. c, 5. a, 6. a, b, c,

How to grade yourself: 6 correct — bless your little pointed heads you read the quiz then looked at the answers.

4 to 5—There is some hope for you.

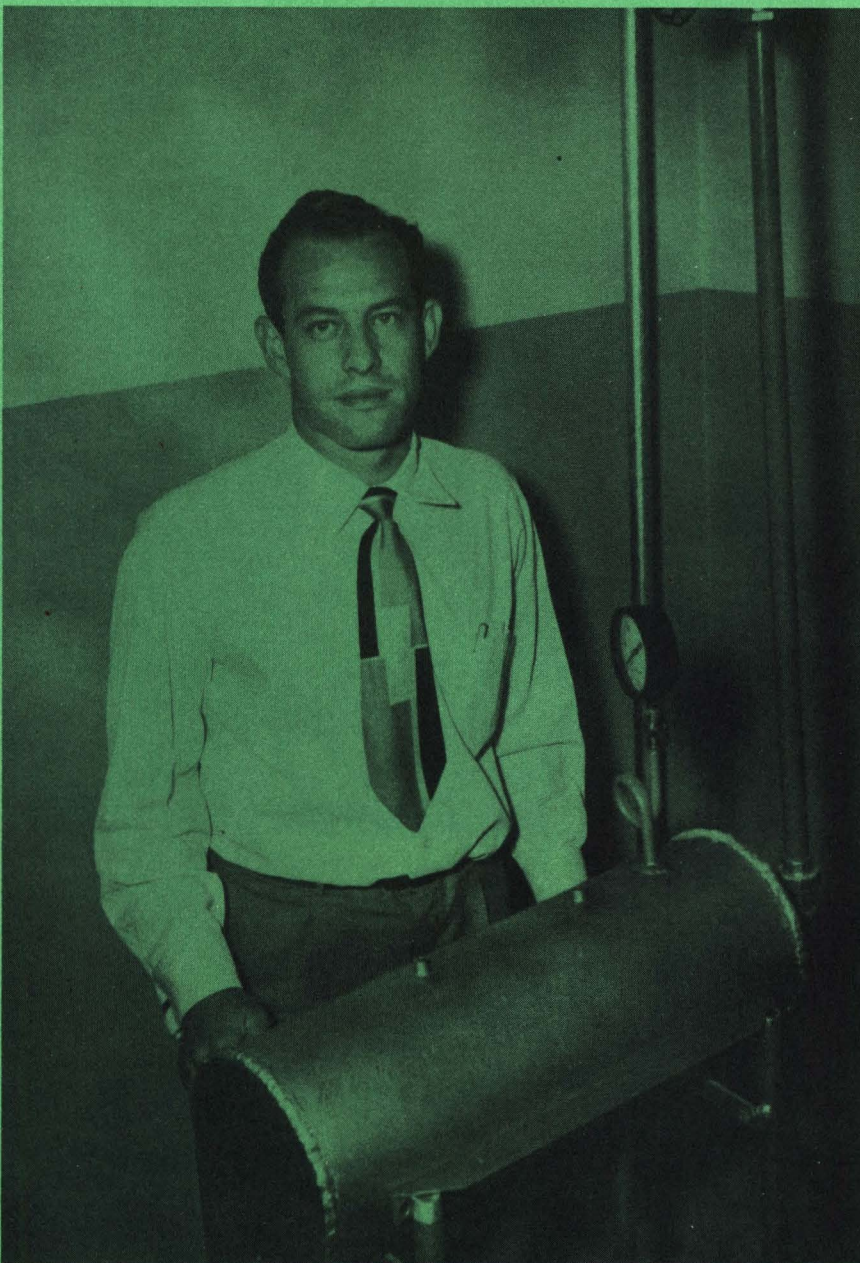
2 to 3—Psuedo-engineers.

0 to 1—Slobs!

+++++

Mr. John R. Ballentine

Favorite Prof



ONE OF THE BEST-LIKED and hardest working instructors on the campus is Mr. J. R. Ballantine, head of the Mechanical Engineering Department. "Johnnie", as he is often called, believes in working hard and he also expects the students to do the same.

Mr. Ballantine is strictly a home-town man, having spent most of his life here. He is probably best remembered for his athletic ability. He played football 4 years at Ysleta High where he was named to the all district team 2 years and was one of the sharpest students to come along. In 1943 he attended Texas Mines here and then accepted a scholarship to Texas A&M, where he completed his B.S.

Among his most exciting moments Mr. Ballantine places the game between A&M and SMU in 1945, where he kicked the winning field goal. During his college career about 4 other games were won by his extra point kicking.

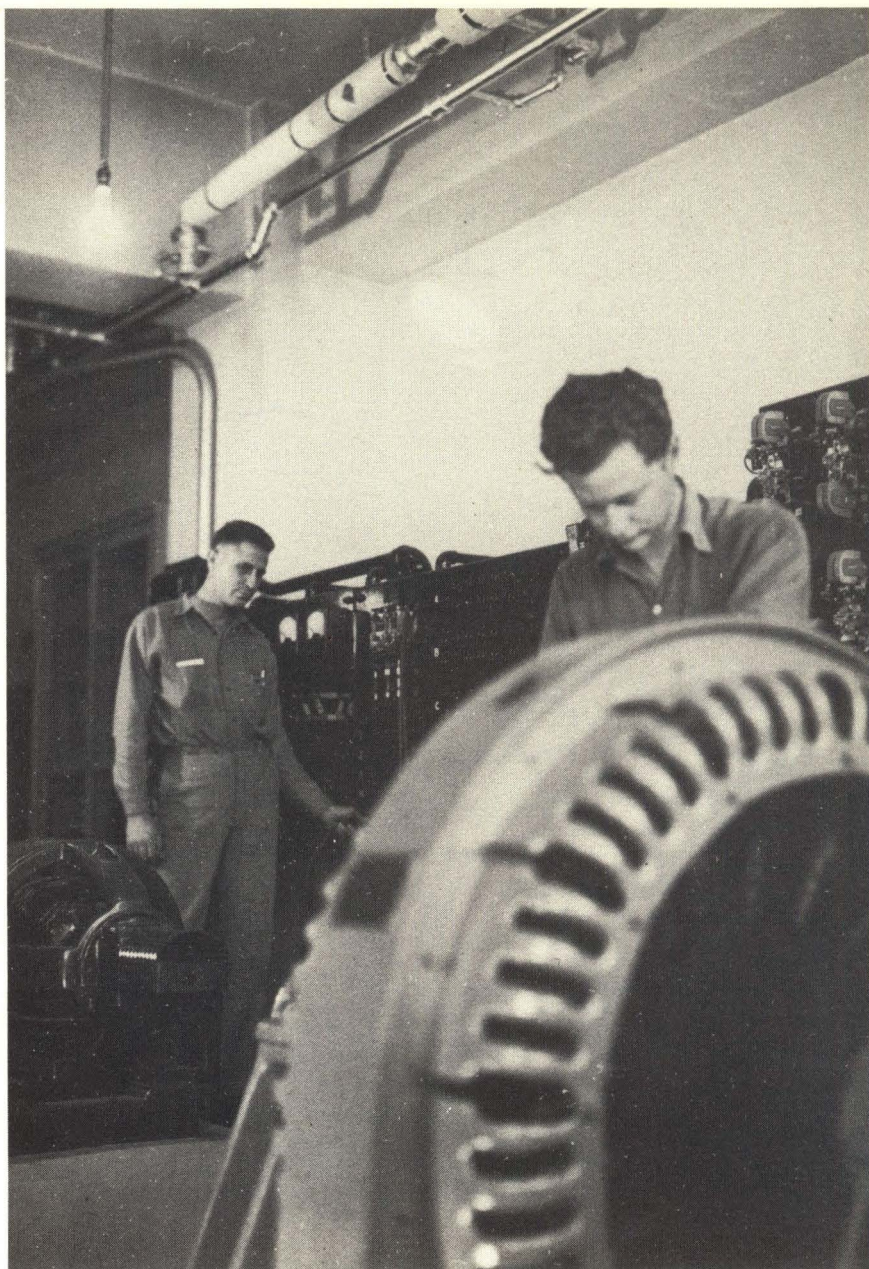
Although carrying a full and load in Mechanical Engineering and playing football, Mr. Ballantine's grades were such that he was 1 of 4 given the Engineering Achievement Award at A & M based on scholastic standing and extracurricular activities. He is also a member of the ASEE, ASME, Society of Automotive Engineers at A&M, and Alpha Phi Omega Fraternity here at Mines.

Mr. Ballentine was in the Navy, and also worked as assistant Design Engineer at Consolidated-Vultee Aircraft Corporation in Ft. Worth, where he did design work on the bomb-bay section of the B-36 bomber.

After teaching here for 3 years, he returned to College Station in 1950 and obtained his masters degree in Aug., 1951.

Mr. Ballentine is married and has 2 children. Among his plans for the future are a Ph.D. and more time for hunting and fishing.

A. I. E. E.



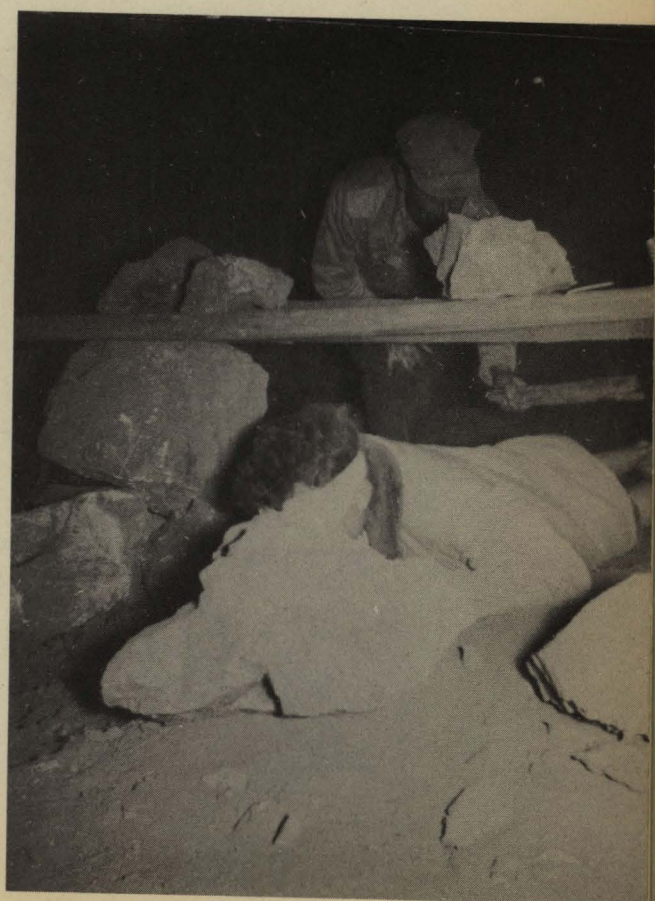
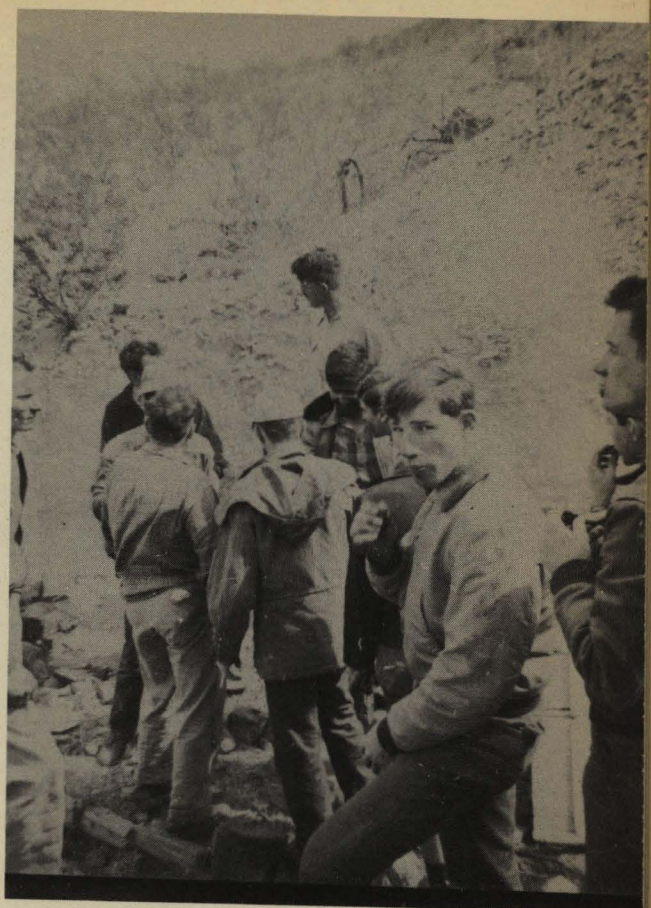
HISTORY OF A.I.E.E.

TEXAS WESTERN'S SUB BRANCH of the American Institute of Electrical Engineers was organized in 1948 with Mr. Floyd A. Decker, professor and chairman of the department of electrical engineering, as counselor.

The aims of electrical chapter are the advancement of theory and practice of electrical engineering together with allied arts and sciences, development of individual engineers, presentation and discussion of papers at meetings, and participation in inspection trips to places of engineering interest. Student membership offers opportunity for connection with a national organization of electrical engineers and acquaintance with personnel and problems of the profession.

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Engineering, one of the fastest growing fields of work, is opening up for women. During the Second World War, women successfully took the places of men who were in the armed forces. Because the women proved their ability in the work, the prejudices held against the members of the fairer sex who want to enter the engineering field are disappearing.

Interest in mathematics and the natural sciences, directive imagination, precision in work, good judgement, readiness to accept responsibility, the ability to work with others, and belief in yourself are qualifications needed for success in engineering. You cannot be a good engineer unless you are a good mathematician. Directive imagination is the ability to find new methods of doing things and another basis of judging a good engineer. The work of an engineer must be very precise. To be a good engineer, you must have sound judgement which you use to distinguish between important and unimportant information. A good engineer must be ready to accept responsibility because it is met throughout the work of an engineer. You must give enough tact and co-operativeness to work successfully with others because engineering work is seldom, if ever, a one person job. Finally, you must believe in yourself and your capability in the work. In the past ten years, women have proved that they have these qualifications.

The major fields of engineering are electrical engineering, chemical engineering, civil engineering, industrial engineering, mechanical engineering, and mining engineering. Another field of engineering which is frequently entered by women is architectural engineering.

Are you interested especially in mathematics and physics? If you are, perhaps you will pick the field of electrical engineering for your profession. In general, the electrical engineer designs, manufactures, installs, and operates the machinery required to generate, transmit, and utilize electrical energy. The electrical may specialize in research, development, design, application, operation, sales, construction, or management.

If you are interested in chemistry, you might choose chemical engineering for your life work. Chemical engineering is basically applied chemistry. The chemical engineer puts the discoveries of the chemist to industrial use by designing, constructing, and operating the equipment needed for the appli-

In Engineering

cation of the discoveries. As a chemical engineer, you might decide to specialize in branches of chemical engineering similar to the branches of electrical engineering mentioned in the preceding paragraph.

Would you like to design and work on construction projects such as building a dam? If you would, civil engineering, the oldest branch of engineering, might satisfy you as your profession. Civil engineering is concentrated in the design and construction of large scale projects and structure. If you are interested only in the designing of structures, you might pick architectural engineering for your profession.

If you are interested in the welfare of people and in science, you might pick industrial engineering for your profession. Industrial engineering is vital to mass production. As an industrial engineer, you will combine a general engineering training and business ability. You will be concerned with conservation of energy of workers. A name familiar to many of you is that of Dr. Lillian M. Gilbert, an outstanding woman industrial engineer.

If you are interested in tinkering with motors, mechanical engineering might appeal to you for your work. Mechanical engineering has many branches because it is basic to the other fields of engineering that use machines for power. The mechanical engineer might go into the design of various types of machinery utilizing winds, water, and fuels for power; or the construction of industrial plants and equipment.

If you are interested in studying rocks, minerals, and fossils, pick mining engineering for your field of work. Mining engineering is divided into mining, mining geology, and mining metallurgy. Mining engineering, in general, is concerned with extracting useful minerals from their ores, and then putting the minerals to industrial uses. Mining metallurgy is divided into extractive metallurgy, applied metallurgy, and physical metallurgy. Mining geology is the application of the science of geology to the finding and development of mineral resources.

To be an engineer, you must have, basically, great interest in engineering.

That is, you must have a great desire for creative construction.

A very important feature in any profession is the salary. The starting salaries for graduate engineers in 1951 ranged from \$287 to \$313 a month. Also, the starting salaries are increasing in almost all the major fields of engineering.

Engineering may not appeal to all of you, but surely it sounds attractive to many of us. If you would like to become an engineer, do not feel afraid to do so, because you are needed in the field of engineering. The shortage of engineers is becoming critical, and it is not going to be relieved in the next few years. Now between 40,000 and 60,000 engineers are needed. If you enter engineering, you will help make up for this acute shortage, and you will help strengthen the proof that women can be successful in a field that once was thought to be for men only.

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KENNETH SHELTON TWISS
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CHARLES H. BROWNE
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JERRY DYSON GILMER
Single-22
El Paso, Texas
Activities: ASCE, DTD

ISACC B. JOHNSON (I.B.)
Single-25
Brownfield, Texas
Activities: AJO, ASCE, Engineering council.

ARNOLD BOYCE PALMORE
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Tioga, Texas
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Clifton, Arizona
Activities: TKE, ASCE, KPT

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Single-26
Imperial, California
Activities: ASCE, Engineering Council, TKE (secretary)

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Engr. Mining Geology
Alpha Chi (President), Sigma Gamma Epsilon, Lambda Chi Alpha, A.I.M.E., R.O.T.C. Association, Men of Mines, Who's Who.
El Paso, Texas

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Mining Engineering
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Engineering Council
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W. C. HJALMQUIST (Wally)
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ADALBERTO SALDONA (Bert)
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SEBASTIAN LOPEZ (Slim)
21
A.I.E.E.
Juarez, Chihuahua

ARTHUR O. BRIEDEN (Pop)
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Activities S.A.E., A.I.E.E. M. Club
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Activities A.I.E.E.
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Sigma Gamma Epsilon, A.I.M.E.,
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Mining-Geology
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ABDULLAH MUBEEN
23
Mining Engineering (Geol.-Option)
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Kabul, Afghanistan

VICTOR A. LaFAVE (Vic)
31
Mining Engineering
A.I.M.E.
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ROBERT G. DICKINSON (Dick)
21
Mining Engineering (Geology-Option.
Alpha Phi Omega, Sigma Gamma Epsilon (Treasurer), A.I.M.E.
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THOMAS J. JONES, JR.
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Ysleta, Texas

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Married-24
Activities: A.I.E.E.
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WILLIAM B. WILLIAMS (Bill)
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Mining Engineering-Geology
Option
Alpha Phi Omega (President), Sigma Gamma Epsilon, Alpha Chi (Vice-President), A.I.M.E., Who's Who

TOVAR'S

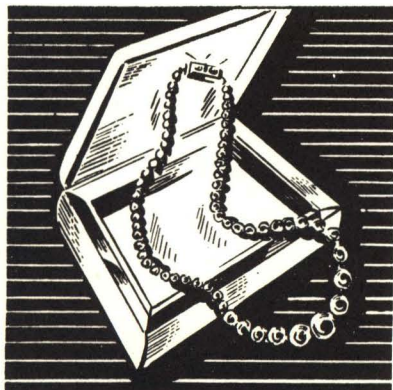
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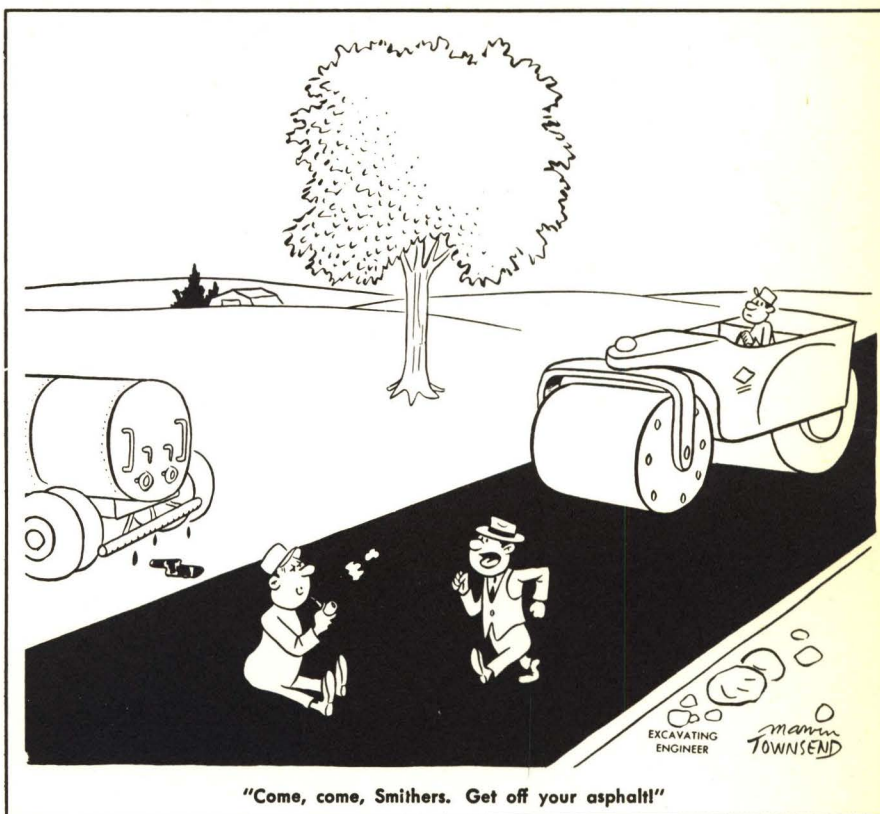
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"Come, come, Smithers. Get off your asphalt!"

TOO YOUNG

A couple of little colored boys were sitting in the sun speculating on their origin, outlook, etc., when one of them said to the other: "How old is you?"

"Ah's five," says his pal. "An how old is you?"

"Ah dunno."

"You dunno how old you is?"

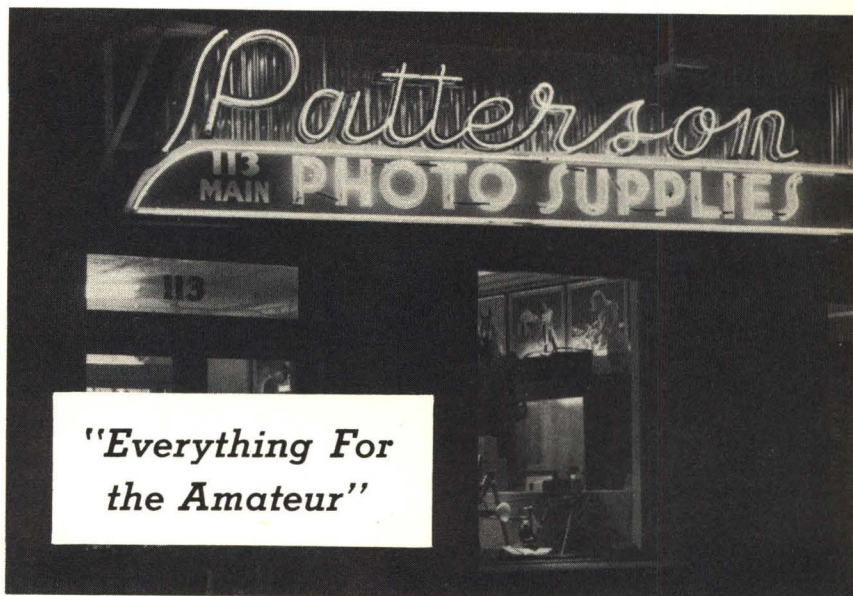
"No, suh."

"Does women bother you?"

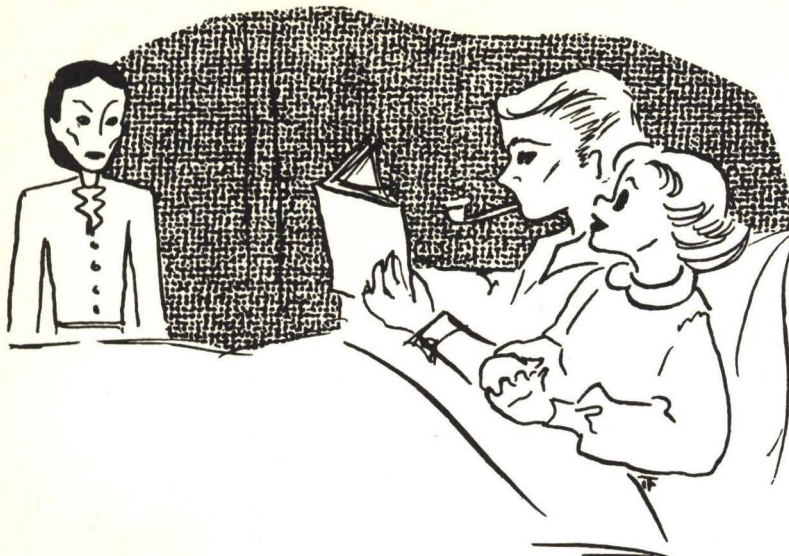
"No, suh."

"You's fo'."

Lifted



From other Mags



"I'm sorry, young man, but men must be out of the dorm by 10:30."

A wine-soaked gentleman of the river section staggered into a swanky Kansas City hotel bar and planked down a thin dime.

"Gimme a ten-cent whiskey."

"I'm sorry, sir," said the polite bartender, "but we do not serve ten-cent whiskey here."

"Then gimme my dime back. I don't want none of that nickel stuff. It makes me sick."

Your husband looks like a brilliant man. I suppose he knows practically everything.

Don't fool yourself; he doesn't suspect a thing.

The bride asked her husband to copy down a recipe being given on the radio. He did his best, but got two stations at once, with this result.

"Hands on hips, place one cup of flour on the shoulders, raise knees and mix thoroughly in one-half cup of milk. Repeat six times. Inhale quickly one-half teaspoon of baking powder, lower feet and mash two hard-cooked eggs in a sieve."

"Attention! Lie flat on the floor and roll the white of an egg until it comes to a boil. In 10 minutes remove from the fire and rub smartly with a rough towel. Breathe naturally and serve with fish soup."

Barmaid: "Oh, yes, I married a man in the village fire department."

Sailor: "Volunteer?"

Barmaid: "No, Pa made him."

My boyfriend is serving on an island in the Pacific. Which one?

Alcatraz.

— VooDoo

With necklines getting lower and skirts getting shorter, it's a good thing the modern coed goes in for wide belts.

Then there was the Scotchman who was nearly beaten to death because he thought the sign said "Laddies."

Hum

As one co-ed put it: "Everything I want to do is either illegal, immoral—or fattening!"

The bandage-covered patient who lay in the hospital bed spoke dazedly to his visiting pal:

"W-what happened?"

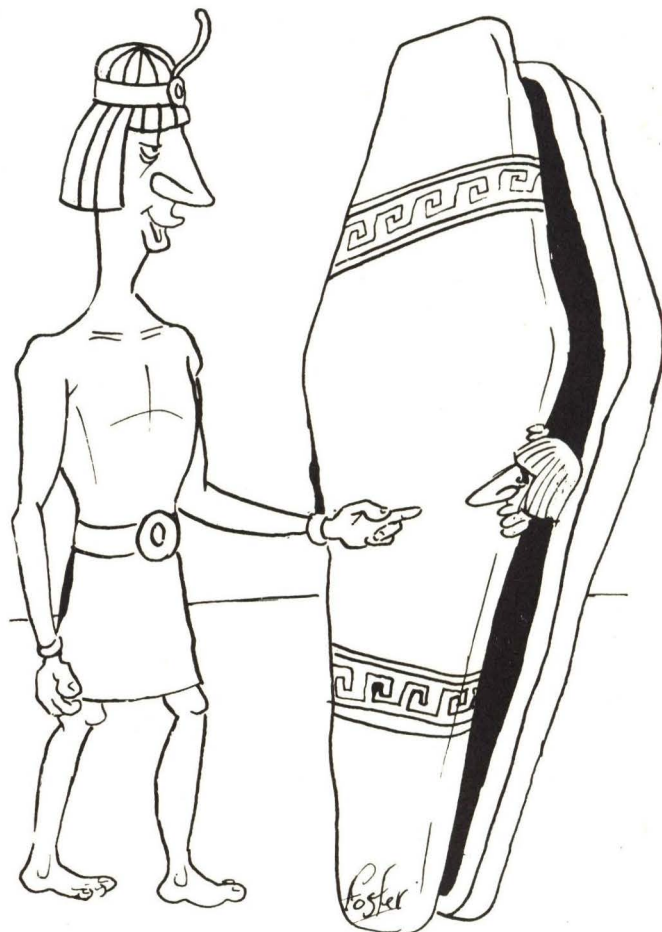
"You absorbed too much last night, and then you made a bet that you could jump out the window and fly around the block."

"Why," screamed the beat-up citizen, "didn't you try to stop me?"

"Stop you?—I had \$25 bet on you!"

—NYU Varieties

A drunk man walked into an elevator shaft, fell four floors to the bottom, stood up, brushed himself off, and shouted, "I said UP!"



IS YOUR MUMMY HOME?

60,000 MORE

by D. F. Ross

THIS COUNTY NEEDS 60,000 new engineers each year to supply our national needs. This year it will get only 35,000, and even less in 1935. These simple statements of facts do not seem to alarm the average citizen, for after all, the average citizen has practically no contact with the engineer professionally, and little realizes the importance of the engineer, both in peace and war.

What, then, is an engineer? Ex-President Hoover, an engineer in his own right, said: "The engineer is a political, economic, as well as a social force. In reality it is he who dissolves monopolies, redistributes the wealth and dismantles political platforms."

At a time when the expanding defense effort has put a premium on engineers of all kinds as well as chemists and physicists, the enrollment of freshmen in colleges has dropped instead of rising. In June, 1950, there were 50,000 graduates; in June, 1951, there were 38,000; this June, 25,000 are predicted. All branches of engineering have been listed as critical by the Secretary of Labor.

Mid-winter college graduates can practically take their pick of jobs, with engineering students getting as many as 10 to 20 offers. A check of dozens for colleges across the country revealed engineering graduates can start from 300 to 400 a month.

If the engineer wields a heavy hand in our economy, and is getting to be critical, and can start at a very good salary, why does the enrollment drop? Why don't the outstanding high school graduates rush to fill this open field? That question is bothering educators and industries much more than our average citizen realizes.

The answer could be that the high school graduates simply are not aware that this field is open at this time. Therefore the indoctrination should be carried to the "grass roots", our junior and senior high schools. Student engineers armed with statistics to back their argument can play an important part in showing the prospective college "joe" the light. Nothing is more tempting than a high paying job with not much competition at the top, and plenty of room for advancement to the top.

There are many other reasons why a high school student should be an engineer:

1. Engineering is diversified. The graduate can specialize in many fields. He can be a "field" engineer. This involves on the location work, in the mine, at the power plant, or at the dam. Or he can specialize in design. This is mainly office work and stresses brains over physical durability required in the field.
2. Engineering is interesting. Almost all engineering work is creative, that is, building something where there was nothing. The pride of a job well done is one of the rewards of a good engineer.
3. Engineering pays. As stated before, graduates start upwards of \$300 a month. There is unlimited room for advancement for the engineer in business for himself. Recommended fees for Professional engineering services for federal projects range from 4 to 12 per cent of the total cost of the project. That range of per cent runs into good money. Engineering pays off the good engineers.

The engineering department at Texas Western College does not anticipate a wild rush from peedoggies to change their major after reading this article. Nevertheless, it is hoped that the various societies can reach the high school with this information. For it should be plain that to maintain our national defense both in industry and in the armed services, there should be a continuous supply of college-trained engineers.

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Rules on this page or elsewhere in this issue.

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1. Pair up actual U. S. town names. Examples: From RYE, N. Y., to BOURBON, Ind. From SOFT SHELL, Ky., to LITTLE CRAB, Tenn. Send as many pairings as you like.
2. The odder the names—and the more amusing the relationship between the two—the better your chances will be.
3. First prize winner will be sent \$50. Second prize \$25, third prize \$10 and three \$5 prizes. Contest closes June 30, 1952. All entries should arrive at Life Savers, Port Chester, not later than June 30, 1952, to qualify. All entries become the property of Life Savers, and prize-winning combinations may be used in future advertisements, together with the names of the winners. In case of ties duplicate prizes will be awarded. Simply mail your entry to LIFE SAVERS, PORT CHESTER, N. Y.

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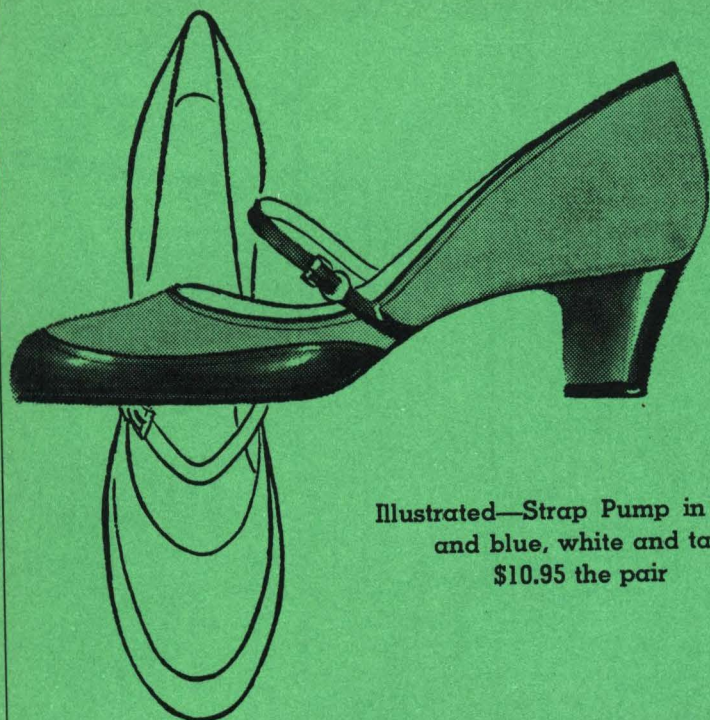
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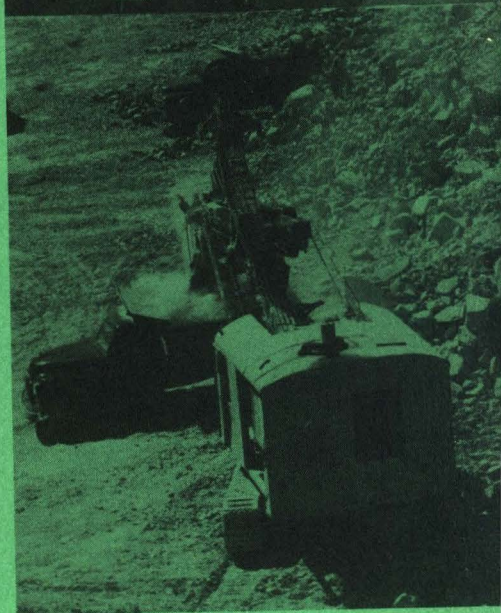
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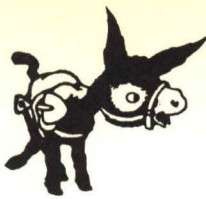
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I WAS BORN ALMOST TEN
THOUSAND YEARS AGO

I was born almost ten thousand years
ago,

And there's nothing in the world that
I don't know;

I saw Peter, Paul, and Moses,
Playing ring around the roses,
And I'm here to lick the guy what says
'taint so.

I saw Satan when he looked the
garden o'er,
Saw Adam and Eve driven from the
door,

And behind the bushes peeping,
Saw the apple they were eating,
And I'll swear that I'm the guy what
ate the core.

I saw Samson when he laid the village
cold,

Saw Daniel tame the lions in the hold,
And helped build the Tower of Babel,
Up as high as they were able.

And ther's lot of other things I have-
n't told.

I was the first "Hard-Rock" to ever
dig gold,
And my diggings are famous today, so
I'm told,

I took music from Cap Kid,
And poise from Doctor Swid,
And I'll graduate from school before
I'm too old.

Now I've had a spot of tea and crum-
pets with the best,

The Vanderbilts, the Astors, and the
rest,

But I'll testify right here
That I prefer a glass of beer
With the "hard-rocks", down in
miners mess.

I remember when the country had a
king,

I saw Cleopatra pawn her wedding
ring,

And I saw the flags a-flying
When George Washington stopped
lying

On the night when Patti first began
to sing.

I remember way back when girls were
nice,

I even had a date once or twice,
When whiskey was not thin

And water costed more than gin
And you could find a man what
played with honest dice.

Now things just aint what they used
to be,

Young man, you can take it from me,
The country's gone to pot
When they won't support this sot
But let me live a life of sober misery.



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"I got pinned tonight!" . . . "Yeah? How many falls?"

Long, long ago a feudal lord's son was having his own way with the wayward girls who lived on his father's properties. When the old man heard of his son's doings, he approached him asking, "Son, I hear you're misbehaving."

"In what manor, father?" was the reply.

V..
D..

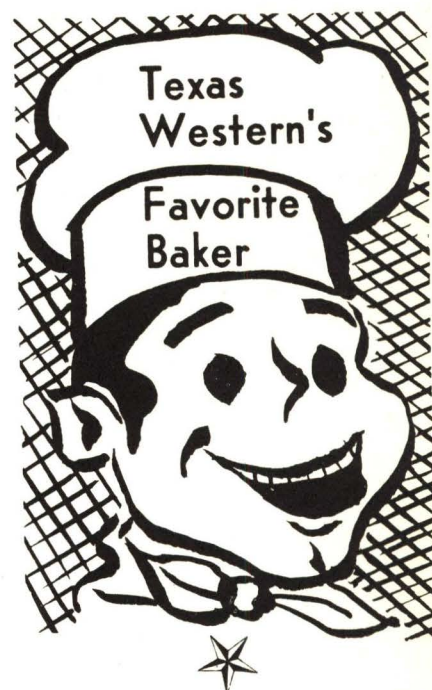
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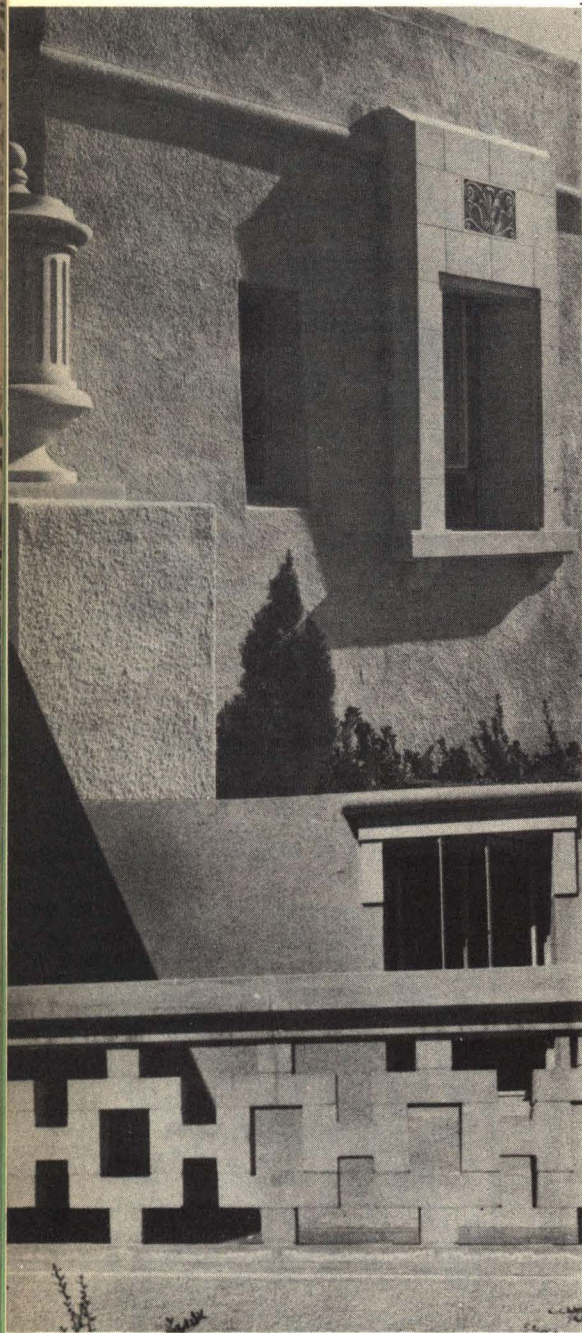


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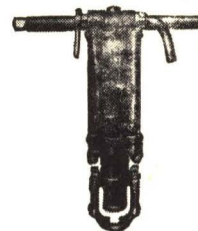


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Marriage—a rest period between romances.

Neck—the favorite piece of chicken among men.

Old-fashioned girl—one who used to stay at home when she had nothing to wear.

Kiss—to a young girl it is faith; to a married woman it is hope; to an old maid its charity.

Shape—what a bathing suit takes when a girl is in it.

Puppy love—the beginning of a dog's life.

First love—a little foolishness and a lot of curiosity.

Old maid—a girl who knows all the answers, but no one asks her a question.

Burlesque—it isn't a show; it's a take-off.

Virture—it has more admirers than followers.

Nudism—it's just a skin game.

Dance—hugging set to music.

Fan dancer—one with a shaky future.

Liquor—a liquid which talks mighty loud when it comes out of the bottle.

Second sight—a sure cure for love at first sight.

Sonny: "Mother, Pappa wouldn't murder anyone, would he?"

Mother: "Why certainly not, child. What makes you think that?"

Sonny: "Well, I just heard him down in the cellar saying, 'Let's kill the other two, George.'"

She: "How did you find the men at the party?"

Her: "I just opened the door marked 'Men,' and there they were."

Percy McGhee

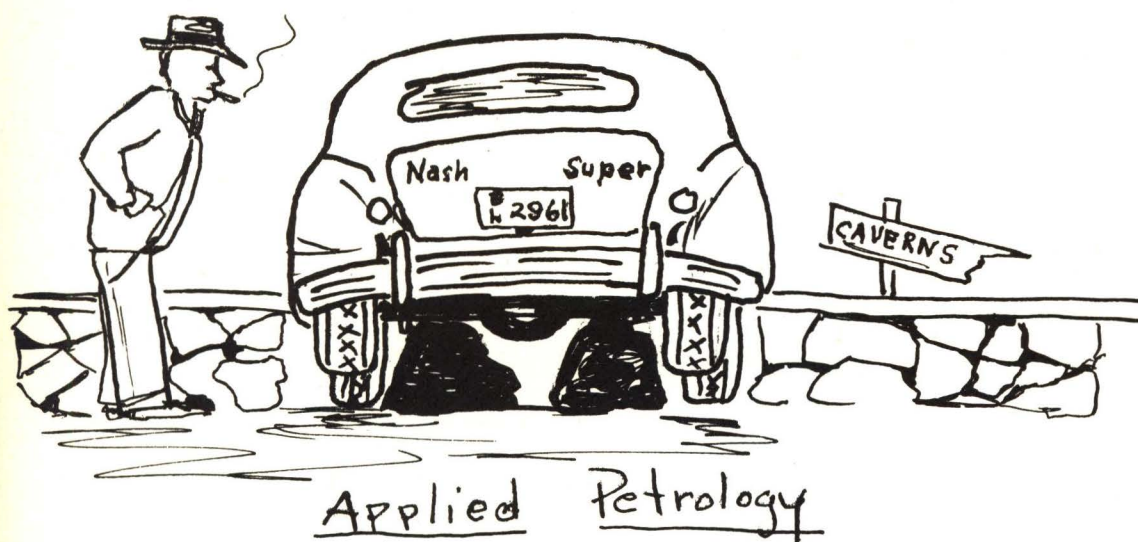
Architect A. I. A.

1013 First National Building

El Paso, Texas

CONCLOMERATE

39



Scientists claim that green is the most soothing color for the nerves—especially the long green. However Mrs. O'Leary did not have this in mind when she sympathized with her friend: "Shure and I'm sorry to hear your husband passed away. What did he die of?"

Through her tears Mrs. Murphy replied: "I was gangreen."

"Praise the Saints," whispered Mrs. O'Leary, "for the color, anyway."

• Lifted?

The EE's Lament

Through the smoke and ozone fumes the student slowly rises
His hair is singed, his face is black,
his partner he despises.

He shakes his head and says to him,
with words so softly spoken,
"The last thing that you said to me
was, 'Sure, the switch is open'."

* * * Cornell Engn

A tired C.E. arrived at home. The cook and maid had quit that morning without notice. His last bridge had just collapsed into the river, and to top everything he found a farewell message from his wife. He knew that one shot would end it all. So he opened his desk, pulled out his bottle, and took one.

• • • Cornell Engn

Doctors keep telling us that drinking is bad for us . . .
but we notice a lot more old drunks than old doctors.

The old mountaineer gran'paw was sitting in his favorite rocker on the front porch of his little cabin. He was rocking leisurely east and west.

Sitting beside him, rocking north and south, was his youngest son Bub, an innocent little shaver of 42.

Without turning his head, the old man said: "Sonny boy, 'sno use to wear yerself out thataway. Rock with the grain and save your stren'th."

Miner & Prospector

"Jane, you've been married to Dave for ten years and each year you've had a baby, just like clockwork, except for this year. How come?"

"It's because of this hearing aid that I got this year."

"What does that have to do with it?"

"Well, before when Dave and I got in bed at night, he would turn to me and say, 'Shall we go to sleep or what?' and I'd always say, 'WHAT?'"

Vee Dee

When the two back-fence gossips got together for their morning chat, one told the other, "My goodness, I'm so excited! George is going in for anthropology. I always knew he would take up something worthwhile."

"How did you find it out?" inquired the neighbor.

"Oh," said the excited wife, "I found some tickets in his coat with the inscription 'Mud-horse 15 to 1', and when I asked about them he explained they were relics of a lost race."

Lifted?

A man was perched atop a building in Atlanta, and it looked like an attempted suicide. A policeman made his way to the building roof to persuade him not to jump.

"Think of your maw and family," pleaded the cop.

"Haven't any."

"Well, think of your girl friend."

"I hate women!"

"All right," said the policeman desperately, "think of Robert E. Lee!"

"Who's he?"

"Jump, you dirty yankee!"

• Lifted?

It is rumored that a certain EE professor is writing a book for D.C. machinery, to be called "Forever Ampere."

Cornell Engn



Our surveying friend in the upper left hand corner seems to have focused on something worthwhile. We'll let you in on the deal. Perfectly engineered and a gal that is really on the level is Mary Spencer. She is a freshman student from Presidio and lives at Bell.