

The California Tech

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EPIHEMERAE

Old Etain Shrdlu, who sometimes contributes to the Tech, has already commented upon the sad breakdown of many of the old Tech traditions. We must hesitantly report that one of the most sacred of these has just been smashed completely.

It has been ritual for some time for the ASCIT president, upon congratulating the new editor of the Tech each year, to observe that he does not expect to see same around too much longer, or to put it more bluntly, that it is tradition for the editor to flunk out and most of the department editors to be hanging on the ropes by term end.

Still Here

As you can see from the masthead above, we're all still here this term—but—and at least in the years I've been helping with this sheet it has never happened before—believe it or not, the editorial board of the Tech has come up with a collective GPA of better than 3.2 . . . and even a couple of ex-editors, Bob Heppe and Bill Karzas, as you may have noted, turned up on Tau Bate. And their excuse for leaving was "grades." Come back, fellows, you can do it here too!

Seriously, though, I'd like to get over the point to those of you who would like to work on the Tech and are still wavering on the brink, that perhaps having the additional load that we will promise you if you join us will prove a help rather than a

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CAMPUS BREWINS

One of the better field trips of the year was held by the Geologists who put the old term to bed with a brawl at Mountain Oaks on the 20th.

Features of the evening were that smooth USGS punch and the large numbers of non-rock-hounds who showed up; they outnumbered the geologists.

The undergrad geologists came up with a smooth crew race team of Herzog, Muehlberger, Glover and Kachadoorian, which defeated a grad-prof team handily and then snowed under a challenging non-grad, non-geologist crew led by Forrester. Glover fouled up, however, and the Flamer went to the Grads, but Pat outgulled Muehlberger in an English Pint challenge.

Some of the troops turned up in Dabney afterwards where some played bridge. After the affair, many people were considering changing options, but by morning few remembered. Anything!

Speaking of the barn dance, someone might ask Herzog why his mom gave him a new and larger pair of Levis for Christmas. It is a long way back to Sherman Oaks, especially by way of Dabney, where Bobbie slyly removed a certain picture from the collection in 36. But she promised a better one.

While on the subject of Ye Ed, little Erna came up from San Diego to be with her steady over the holidays but it was old Len who saw her to the train on the way back, after a week of steady operating. Das Muehl is mad because he wasn't called in to help on the case after the letter he helped compose last summer (there was never any answer).

Happy New Year!

Christmas vacation saw all sorts of people doing all sorts of things, but most of them will not admit it. We have already promised numerous people not to tell.

Of course, there were some money-grabbing wretches like Roger Chambers who spent the two weeks working like mad gathering up money and spending the evening counting up his pile.

Mitch Cotton and J. C. Bear bring back reports of an unusu-

ally wild New Year's Eve party. It was so good that after the early part of the evening all they can remember is the sound of popping corks and the sensation of warm breath.

Doings in Denver

In Denver were Hugh Carter, Howard Cohan, Paul Fullerton and John Fee. There was some talk of an orgy there, but with sly grins little information was given. Suffice to say, that instead of bringing Carter back, they had an Arizona co-ed in the car.

Also in the "Mile High City" was Bob Smoot, who took this column's old friend, Peggy Briggs, on to Washington. Once there Bob went to bed awfully early at night only to get up earlier in the morning.

South of the Border

Bob Poindexter, Warren (the Pure) Marshall, Abner Kaplan, Phil Lamson, Bud Mittenenthal and Doug MacLean motored down to Mexico City and Acapulco. Vast quantities of Bacardi were consumed in an effort to cement international relations. If you're curious as to why, ask Warren what he washed his mouth out with cognac for on New Year's Eve, or for that matter why all of them like this dancing barefoot. And there was the Cathedral and the museum and also the girl who kept chasing Kaplan around jabbering strange things in Spanish while she ran her fingers through his hair. The prize spectacle of all was MacLean in Acapulco dancing barefooted with some wench in a 4-a-dance joint.

Applied Science

Those two sterling students, Ed Revay and Dick Bennett, went to Las Vegas to try out some new high-powered system on the wheel. They didn't make out as well as some other Techmen, at least not gambling.

Long View

The Longs threw a little New Year's affair at their casa out towards Pacific Palisades. Only about half the expected multitude showed up, most of them because of Virus X, 'but Carl Price, who is on such intimate terms with Vector that he writes a column which we won't mention about how to get dates, didn't come because he couldn't get a date. Great!

Among those present were Dennis, Neville, and their sister, and some Fleming elite such as Schuster, Woods and Eschner. Lone Tech was Dabneyite Herzog who came bearing gifts and was let in for fear he'd take them elsewhere.

Some industrious persons were heard playing ping-pong at 3 a.m. . . . but then Fleming men . . . at an obscure pre-dawn hour some of the guests ventured out of the downstairs darkness and discovered that all the hosts had retired. This subtle hint brought about the closing of festivities.

Throop Cooks

Throop's New Year's Eve party got under way in spite of having their amplifier and record player swiped. It seemed like a heckova way to finish off the old year, but Dabney came thru with the loan of their equipment, which in conjunction with an adapter rounded up by Prexy Benton elsewhere served magnificently. When the party was

scheduled to commence Bob was down to his shirt sleeves and swearing horribly over the difficulties encountered in trying to fit two male plugs together using a screw driver as a soldering iron. Bill Smyth, Dabney faithful, when informed of the situation, volunteered his iron and the contact was finally consummated.

Thereupon the music began to play, the dancers began to dance, and the lovers began too. The party officially started only a half-hour late. The word "officially" is used advisedly, since at least one couple was dancing at least twenty minutes before the music began. Reference is made to Dick Miles and Kitty Dowe, Oxy guest.

Remark of the evening came from Old Man Benton. When asked if the best thing his wife did was talk, he shot back with a "Hell, no!!" and declined to elucidate.

Engine Trouble

Chan and Louise conducted themselves in a revoltingly orderly manner. Chan's motor was racing, however, and unable to restrain his "id" any longer, he convinced her to accompany him to other parts.

(Continued on Page 4)

Shavings from the Board

Athletics

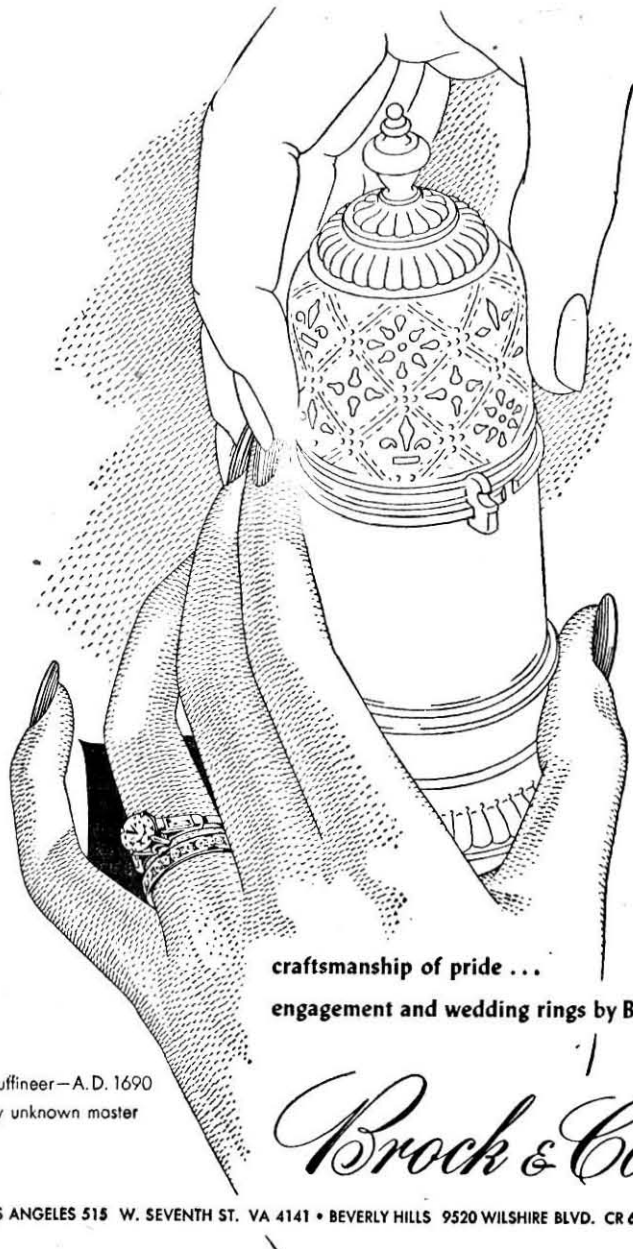
The main item that came up at the last Board meeting before the advent of the Terror called "FINALS," was concerned with the approval of athletic awards for the Fall season. A total of 68 letters were awarded which were distributed in the following manner: Football, Frosh 22, Varsity 20; Water Polo, Varsity 11, Frosh 5; Cross-country, Varsity 6, Frosh 5.

Board of Control

The only other point of interest which has come up in the recent past was a case of cheating tried by the Board of Control. The man was warned in class by his classmates because of his fairly obvious copying from his neighbors during a test. This served as a first warning and when it seemed that he was cheating in a subsequent test, the Board of Control was notified. Since absolute proof could not be determined on this last instance of cheating, his penalty was that of being placed on probation for the remainder of his undergraduate days at the Institute. This decision was approved by the Faculty (which, incidentally has approved all penalties ever set by the Board of Control) and this will be placed upon his scholastic records

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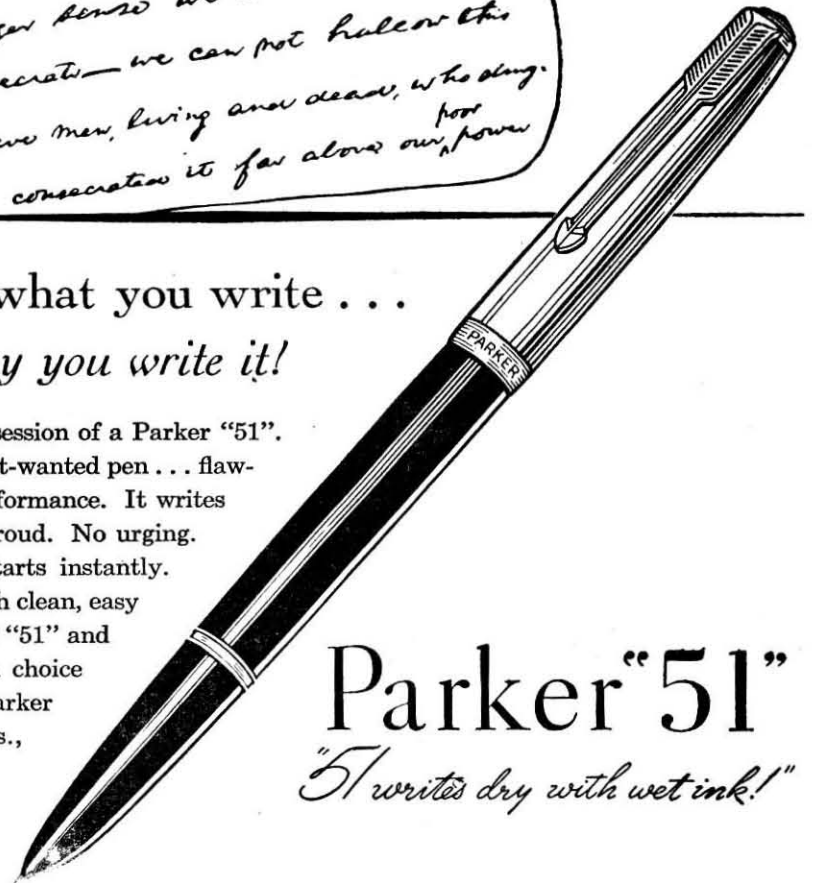
Four score and seven years ago our fathers brought forth, upon this continent, a new nation, conceived in Liberty, and dedicated to the proposition that all men are created equal. Now we are engaged in a great civil war, testing whether that nation, or any nation, so conceived, and so dedicated, can long endure. We are met here on a great battle-field of that war. We have come to dedicate a portion of it as the final resting place for those who here gave their lives that that nation might live. It is altogether fitting and proper that we should do this. But in a larger sense we can not dedicate—we can not consecrate—we can not hallow this ground. The brave men, living and dead, who struggled here, have consecrated it, far above our poor

THE GETTYSBURG ADDRESS

* Just ten stirring sentences in all. But they are an immortal expression of democracy and freedom. Shown here, in Abraham Lincoln's own handwriting, is part of the manuscript from which he spoke on the afternoon of Nov. 19, 1863. The original, along with more than a hundred documents famous in American history, is on exhibit aboard the "Freedom Train". This train is now on a nationwide tour. Watch for its arrival in your area!

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Beaver Sports

Talkin' It Over

with The Goon

Happy New Year, men! Hope that most of you have recovered from those wild two weeks of broken training. Doc Hanes is currently doling out sulphur and molasses, for the boys aren't quite back in condition, so in case you still have those 3.2 Blues, drop over to the field house.

Saw my first football game on television New Year's Day. Television is here to stay, but I'm not sure about the Trojans. Even the Michigan band outplayed the lads in the Red and Gold—glee club and all. Andy was thinking of going T next year with "Perry" Gothard in the quarter, but after watching the Wolverines pulverize Troy, "Fritz" Anderson made this statement: "That single wing looks pretty good to me." Looks like the line is going to be working hard next season holding out the opposition while all four of the

backfield boys handle the ball.

Third Degree

Digging around the casaba patch this vacation were most of the Varsity. The bucketeers spent a few quiet evenings getting the third degree from the L.A. Police Force squad. I don't want to say that the cops were very big or very good, but they had a team on the floor that must have averaged 210 pounds and stood 6-foot 2-inches tall. Not only that, but they had one All-American, two men who were on the 20th Century-Fox team that consistently won the AAU title, plus a few others who lettered for the Trojans and other small schools in the vicinity.

Montgomery got the roughest going over; the cops must have thought he robbed a bank. They sent him to the receiving hospital to get stitched up a bit (Continued on Page 4)

Frosh Sport Roundup

—By Earl Hefner

Some higher power than your columnist has decreed that there shall be a paper this week, and so, despite the lack of activity in Frosh sports, we will attempt a column.

The Frosh basketball team plays their first conference game of the season tomorrow night at Oxy. Via the grapevine, it is rumored that the Tigers have a rather nice Frosh team and that our boys are in for a tough battle. After a two week layoff, the Frosh are in need of considerable practice as was shown in a scrimmage against the Presbyterian Church five, last Monday night. Although the Beaverbabes won rather easily, they were rather sloppy in their play.

Andy Shines

An amusing sidelight of the scrimmage was the first and only appearance of the season of Coach Andy "there's your man, Reed" Anderson, who subbed for Frosh Coach Ed Preisler. Andy proved to be not only an efficient basketball mentor, but due to his many years of football coaching experience he was able to use his vocal chords to great advantage in instructing the players from the bench.

As a contrast to this scrimmage, the Frosh looked pretty sharp in their first real game of the season, against Chapman College. The yearlings built up a 14 point lead at halftime and

Frosh Casabamen Set For Meets with Oxy, Pepperdine

The Southern California Freshman Conference will open tomorrow night when the Beaver Frosh meet the Occidental Cubs at the Oxy gym. The Tigers are considered one of the best teams in the league, but the untested Frosh may provide their hosts with a battle if their first string can hit the basket.

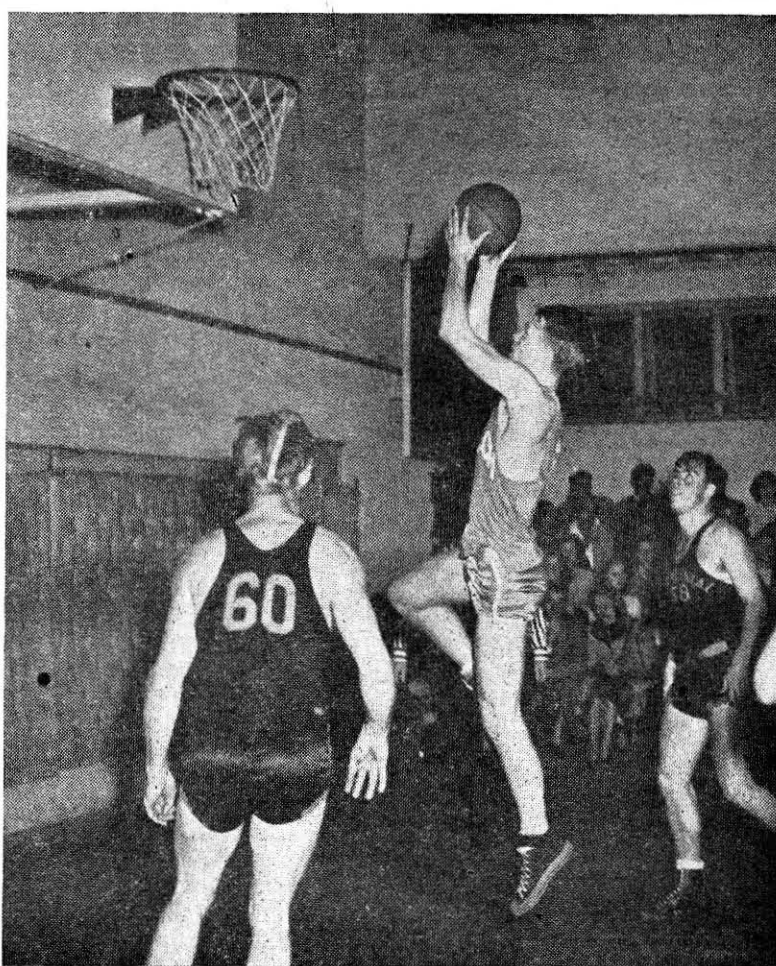
After a two week Christmas recess the Frosh have resumed practice for the tough 12 game schedule that lies ahead. Following the Oxy game, the young Beavers play hosts to the rugged Pepperdine crew at the Armory, Saturday night. Probable starting lineup for the Frosh is Al Sereno and Bud Freise at forwards, Thorne Butler, center, and Dick Brewer and Ray Greutert at guards.

In their only game of the season thus far, the Freshman licked the Chapman College Frosh, 46-30, Dec. 12. Dick Brewer starred for the Tech five, getting 11 points while forward Al Sereno hit for 10 counters. After the opening minutes of the contest the Beavers took the lead and controlled the remainder of the game, as Coach Preisler made frequent use of the entire squad.

went on to win, 46-30.

The team now consists of 20 (Continued on Page Four)

BOWEN AIMS FOR BASKET



Ted Bowen, Tech forward, is shown here, center, in an exciting moment in last year's meet with Occidental College, held there. Bowen is preparing to shoot while opposing players look on in dismay, and Oxy spectators (background) gasp in horror. Bowen is again on the Caltech team which will meet Occidental on their home court tomorrow night, in an attempt to bring the haughty Tiger team to its knees.

CALTECH BASKETBALLERS

(Continued from Page 1)

because he had used up his five allotted blows at this early stage. The Chapman tussle was a nip-and-tuck affair from the opening whistle. The Beavers grabbed a 2-point edge midway in the second half, but Chapman's superiority at the free-throw line earned them a 3-point margin. Guard Bill Cox turned in a fine

job of rebounding and defensive play in this game.

In the one-sided victory over the Pasadena "Y," Ted Bowen was deadly on tip-ins and racked up 22 points while Saltman contributed 18.

Following the league opener with Occidental, the Beavers will travel to Pepperdine Saturday night for their fourth game of the season, a non-league tilt.

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DU PONT Digest

For Students of Science and Engineering

Rubber accelerators lead the way to new agricultural fungicides

Vulcanization accelerators for rubber and agricultural fungicides would seem to have little in common. But the wide variety of interests of men in the Du Pont organization sometimes result in outstanding developments from such apparently unrelated products.

A rubber chemist suggested to a plant pathologist that derivatives of dithiocarbamic acid, $\text{NH}_2\text{-C(S)SH}$, parent substance of a well-known group of rubber accelerators, be tested as insecticides. His suggestion was based on the possibility that sulfur combined in this form might be more effective than free sulfur, a recognized insecticide.

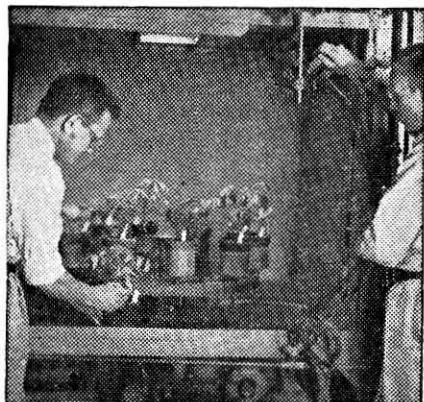
Entomologists and plant pathologists investigated the fungicidal as well as the insecticidal properties of this group. One of the first compounds tested, sodium dimethyldithiocarbamate, $(\text{CH}_3)_2\text{N-C(S)SNa}$, even in dilutions of 1:30,000, was found to be a powerful fungicide, but somewhat injurious to plant life.

This led to a systematic program of research including other metallic salts, the ethyl, propyl, butyl, phenyl, and other aryl derivatives of the dithiocarbamates and thiuram mono- and disulfides, and the related compounds

made from ethylenediamine and morpholine. In this phase of the work, organic chemists played an important role by suggesting various derivatives and preparing them for tests. Later, in cases where proper dispersion and adherence of the compounds to plants were important, the skill of physical chemists was called upon.

In general, the compounds of greater chemical stability were found to be less effective. Fungicidal efficiency diminished with increase in size of alkyl radical, and as aryl radicals were substituted for alkyl. Thus the unusual situation developed that with the exception of the bisethylene (dithiocarbamates), the first and simplest products tested, the methyl derivatives, proved to be the best fungicides.

Iron and zinc dimethyldithiocarbamates, $(\text{CH}_3)_2\text{NC(S)-S-M-S(S)CN}$ (CH_3)₂, are now sold as "Fermate" fungicide and "Zerlate" fungicide respectively, for control of fungous diseases of many fruit and vegetable crops, tobacco, flowers and other ornamentals. Zinc ethylenebis(dithiocarbamate), $\text{Zn(-SC(S)NHCH}_2\text{CH}_2\text{NH(S)CS-)}$, marketed as "Parzate" fungicide, has specific action in the control of late



B. L. Richards, Jr. Ph.D., Cornell '44, and A. H. Goddin, M.S., University of West Virginia '32, test efficiency of "Parzate" fungicide in control of tomato late blight and bean rust. Equipment is specially designed laboratory spray chamber.

blight on potatoes and tomatoes. Tetramethylthiuram disulfide, $(\text{CH}_3)_4\text{NC(S-S-C(S)N(CH}_3)_2)_2$, is used in two compositions, as "Arasan" disinfectant for seeds and "Tersan" fungicide for turf diseases.

Overall, the derivatives of these groups of compounds proved to be outstanding as fungicides, rather than as insecticides. Although a marked degree of specificity for different pests was characteristic of the members of this series, it is interesting to note that all three were highly effective. This work offers still another example of how the breadth of interest in a company like Du Pont can lead to worthwhile developments.

Questions College Men ask about working with Du Pont

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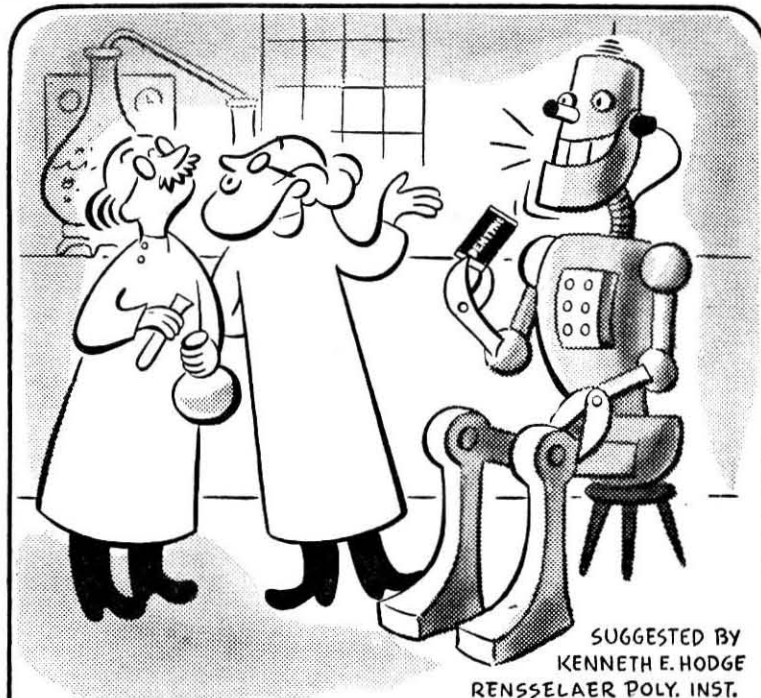
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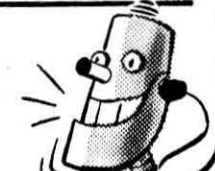


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Opportunities Open On Staff of "Tech"

There are several openings on the staff of the "California Tech" for anyone, yes anyone, who can write, type, gather news or is not violently opposed to learning some of these precious skills reserved to members of the Fourth Estate.

All persons interested in serving themselves and their school should run, not walk, to the "Tech" office Monday evenings in lower Fleming, or contact some staff member.

FROSH ROUNDUP

(Continued from Page Three)
palyers the latest addition being 6' 4" Dick Libbey. Libbey joined the team at the conclusion of the water polo season where he made a fine showing on the first-string. He will probably alternate with Thorne Butler at center.

Home-Sweet Home

We were approached the other day and asked this question: "Since Caltech has no gym, just where do the Frosh work out?" We were at a loss of words for a moment to explain that the Preisler boys have now practiced in six different gyms. At the present time they are practicing at the First Baptist Church, but will return to their original "home" next week for (they hope) the remainder of the season. Ah me, there's no place like home!

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CAMPUS BREWINS

(Continued from Page 2)

Unhappiest man of the evening was Jack Flynn who, in a burst of holiday spirit, flung a chunk of serpentine into the crowd and accidentally his watch along with it. His next move was to make a boor out of himself by turning on the lights, climbing on the thing we are not allowed to mention in this column in connection with our fair campus (there is one at the Skip Inn, however) and asking the mob to spare a few seconds to look on the floor for his watch. Feeling miffed at being excluded from the gaiety, Phil's girl friend took matters into her own hands and rounded up the watch in less than five minutes. I don't think Flynn was in any hurry to find it. However, he cheered up immediately and to show his appreciation, the two of them proceeded to have their own little party right there in front of everybody.

Gold Star Janitor

Chuck Auerbach put the finishing touch on it the next day when he paid a couple of kids an ice cream cone apiece to clean up the mess. The kids did a wonderful job, and we think Chuck deserves the united thanks of Troop for his fine example of interhouse fraternity. We could go on for pages listing many interesting items, although I doubt most of them would pass the censor. Anyhow, I'll start to close this with a few resolutions and observations.

Scripps, Please Note

I have heard from my friends that waste their time at Scripps that the fair maids are rather unhappy with this column. The only thing that I could suggest to correct this would make them

Classified Ads

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LIGHT TAN Sport Coat, size 36. Peachy Keen! Carl Price, 49 Fleming.

only that much more frustrated. While on Scripps, I have just finished reading Misses Mewhirter and Weaver's gush column in which they pat each Scripps maid on the back at least once a year (twice if they can). Then they complain that I do not sign my name to the Brewin's, which prides itself on never having said anything nice about anybody. However, to prove to the everdoubting female that I am big and brave, this copy will be signed.

I am never going to complain about the food Mrs. Bunton serves us, and resolve to spend at least one night a week mooching Haig & Haig from one of my friends.

The last item is that Yours Truly and the whole Tech staff wish you the best for the com-

EPHEMERAE

(Continued from Page 2)

hindrance. As heavy as the work is here in comparison to other schools, it isn't near the breaking point.

Sometimes an additional spur is just the right thing to encourage that latent efficiency . . .

Besides, if we get enough men down here, the load becomes light for everybody. That's what we're striving for. It's never happened at Tech, but it could.

ing year and more interesting and eyelifiting items in this column.

ETAOIN SHRDLU.

Ed. Note: Don't think this Shrdlu is the same one we know, but then if you wrote this column would you use your real name?

TALKIN' IT OVER

(Continued from Page 3)

around the eye. This last scare puts Jay ahead of Dennis Long in the race to see who gets cut up the most. Next time Monty gets scratched he's going to have the doc cross-stitch "Home Sweet Home" across his forehead. Cox had some bore come up and stick a finger in his eye too, but Bill got away with a few cold compresses. The last game we had with them, Red took along a pair of brass knuckles just to make sure he wasn't pushed around.

Hard Weed-end

Ought to be a couple of good games this week-end. Oxy on their floor is a tough combination to beat. The Tigers know just how to block you into one of the stone pillars that decorate

TECH BIO LABS

(Continued from Page 1)

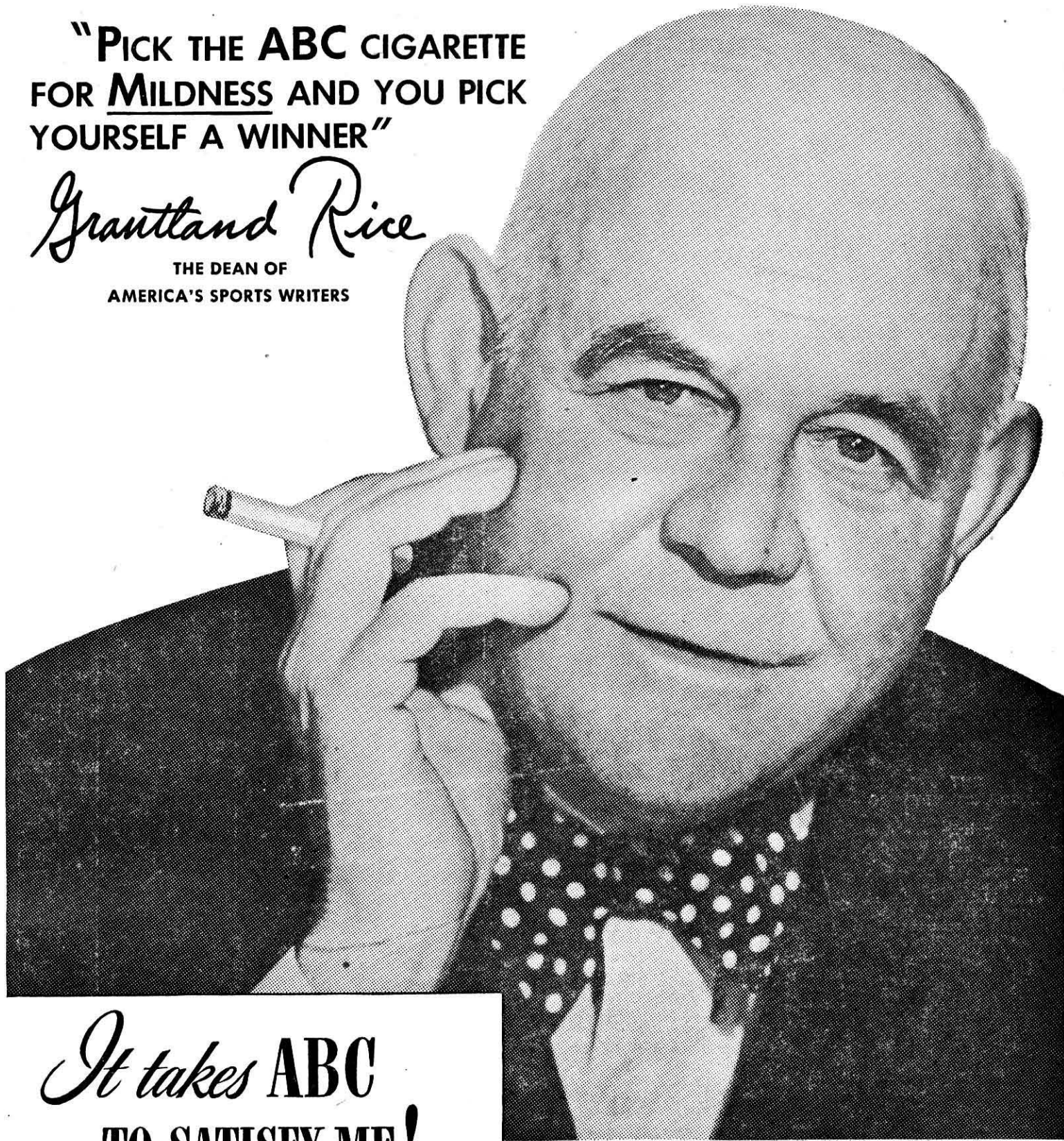
warfare agent which wages war on other plants trying to encroach its domain. It also shows that while the sociology of animals is psychological, that of plants is chemical," Bonner said.

the floor, while smiling so sweetly at the ref. Even with the loss of their star forward, the Bengal five is still one of the strongest in the league, while the lily-white amateurs out Pepperdine way have again scored the Midwest for eight or ten melon men who "like the atmosphere out here." The Wave quintet looked very powerful at the Invitational Tournament a few days ago but I think that the old Beavers might gnaw a win from them. See you at the games.

"PICK THE ABC CIGARETTE FOR MILDNESS AND YOU PICK YOURSELF A WINNER"

Grantland Rice

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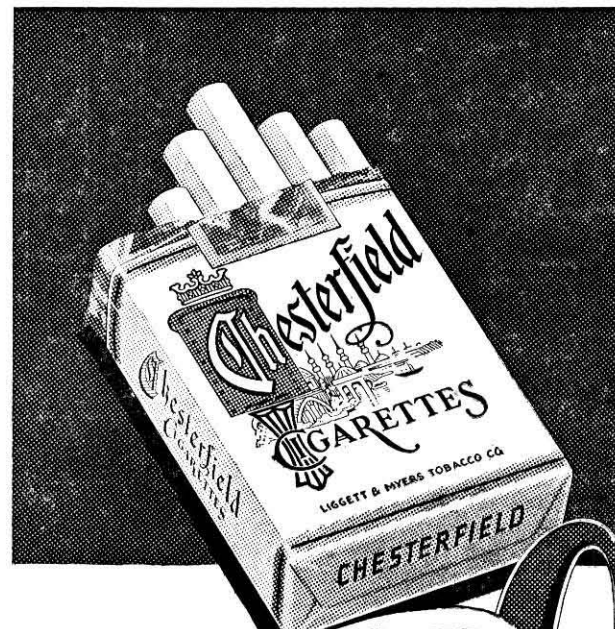
It takes ABC TO SATISFY ME!

says Sportscaster Grantland Rice

When you change to Chesterfield THE FIRST THING YOU WILL NOTICE IS THEIR MILDNESS

...that's because of their Right Combination World's Best Tobaccos —

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YOUR HAIR CAN LOOK LIKE THIS WITH

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2. A LITTLE WILDROOT CREAM-OIL does a lot for your hair. Keeps it well groomed all day long. Leaves no trace of that greasy, plastered down look. Makes your hair look and feel good.



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3. AGAIN AND AGAIN the choice of men who put good grooming first — that's Wildroot Cream-Oil. No wonder when new users from coast to coast were questioned, 4 out of 5 who replied said they preferred it to any other hair tonic they had used before. For generous trial supply free, send this ad with your name and address to Wildroot Co., Inc. Dept. C-1, Buffalo 8, New York.

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