California Institute of Technology Thursday, January 8, 1948

Caltech Basketballers to Meet Illegal Parking Oxy Five in Friday Tilt

Strong Victory, Two Close Defeats **Behind Tech at First Conference Game**

Friday night Coach Carl Shy & will send his as yet untested hardwood aggregation against a strong and highly rated Oxy five. The Beaver varsity dropped two close decisions before Christmas to Pasadena Nazarene and Chapman, but during the past three weeks they have been steadily improving, and in their last practice game a week ago slaughtered the Pasadena "Y," 66 to 26.

The Oxy Tigers made a good showing at the Redlands tourney, dropping a one-point decision to the Whittier Poets, ultimate tourney champs and generally regarded as the team to beat in the Southern California Conference race. Since the tournament the Tigers have continued to build up a strong record, and with the home floor advantage Friday night in addition to this must be rated the favorites over the Tech hoopsters. But don't sell your team short. Coach Shy might very easily put a team on the floor which averages 6-feet 4-inches, and on Oxy's tiny court height becomes an important factor. Underdog?

Actually, it is unfair to place the Varsity in the role of the underdog because of their two tournament at Redlands with insufficient preparation due to the early date of the tourney and also to the difficulties in obtaining a gym in which to practice. Then the team's leading point maker, Paul Saltman, was excused from the fracas after 13 minutes of the first half (Continued on Page 3)

First CES Assembly To Have Patent Talk

jointly sponsor this term's first born in Germany and with the meeting of the Consolidated Engineering Society next Monday at the regular assembly time. The speaker will be Prof. Mackeown of the Electrical Engineering Department.

his wide experience in the pat- en here to the recent develop ent field to give a talk which will ments in the Hollywood investibe of interest to students of all gation and other similar actions options and of value to those which are going on throughout who may some day have occa- the country. The Marshall sion to protect an original idea. Plan, U.M.T., and the Third

SAE Plans Trips

The SAE is planning several share of discussion. field trips during the coming term, including visits to the Northrup plant in Hawthorne, however. The social side of the and the General Motors assembly plant in Van Nuys. Nonthe type of trip permits more earlier defeat by trouncing Oxy students are listed with the ofler asks that any student member of this society who did not receive a circular letter this week get in touch with him in Room 19, Ricketts.

Campus Calendar

THURSDAY, JANUARY 8—
Upper Class Luncheon Club at the Training Table, 12:00.
Throop Club Meeting, 12:20.
Glee Club Rehearsal in Throop Club.

FRIDAY, JANUARY 9— Basketball game. Caltech vs. Oxy, there SATURDAY, JANUARY 10— Basketball game. Caltech vs. Pepper-dine, there.

SUNDAY, JANUARY 11— Musicale in Dabney Lounge

TUESDAY, JANUARY 13— Newman Club in Dabney, 4:15 p.m. All Catholic students invited. Band Rehearsal in Culbertson Hall, 7:30

wednesday, January 14—
Frosh Luncheon Club at the Training Table, 12:00.
Orchestra Practice in Culbertson Hall, 7:30 p.m.

7:30 p.m.

THURSDAY, JANUARY 15—
Upper Class Luncheon Club at the Training table, 12:00.
Throop Club Meeting, 12:20.
Glee Club Rehearsal in Throop Club, 8:30 p.m.

FRIDAY, JANUARY 16—
Student Assembly, 11 a.m. 6
Basketball game. Caltech vs. Redlands, here.

SATURDAY, JANUARY 17— Basketball game. Caltech vs. Chapman,

Pauling To Journey For Oxford Lectures

Dr. Linus Pauling, chairman of the division of chemistry at Caltech, left Pasadena December 19 en route to Oxford University, England, where he will lecture in the field of chemistry as the Eastman Professor from this country from January to June. His family accompanied him and they sailed aboard the S.S. Queen Mary from New York on December 26.

scientists. Dr. Pauling was ap-

Brings Warning

ly made the following announcement to those persons on campus who drive cars.

"We have recently had a number of people complain to us about cars being parked so that they protrude out across private driveways, thus blocking them so that persons occupying the property could not get their cars onto the street. We also know that the Pasadena Police Department has been asked by some of these people to check such violations and that it has been a number of citations for illegal parking.

"The attention of all Institute personnel is also called to the fact that some time ago addiawarded periodically to out-that there is always some space standing American scholars and available there. This involves walking a little farther, perhaps, pointed this professorship last but it also saves paying a \$2 parking fine."

Religion, Politics, Sociology not two, but three one-act plays. Even the most obscure "type" will find a nest from which to Discussed at "Y" Conference

From all reports this year's Asilomar, as the year before, was another fine conference. Over 400 delegates from the early-season losses. They entered YMCA's, YWCA's, and SCA's of the universities and junior colleges of California, Nevada, and Hawaii met for the six day affair. An even dozen were there from Caltech collecting data and information which should help to make the "Y" increasingly popular here on our campus. The theme of the conference was "Community" and considerable thought was given to both the means by which a genuine com- Given Word of Hope three chiefs, three directors, and munity may be realized in the world and to the problems which

threaten the accomplishment of gave a series of addresses relatunderground during the last war, created quite a sensation with his talks on the Russo-American problem. Harry Kingled several discussions on civil Dr. Mackeown will draw upon liberties, and attention was giv-Party also came in for their

Social Events Enjoyed

All was not work and thought, 'Y" was not overlooked and a fine program of recreation was on New Year's Day.

Twelve Attend From Tech

Those attending from Caltech were Dick Alexander, Bob Crichton, George Davenport, Vern Edwards, Olly Gardner, Jim and Bertha Harder, Wes Hershey, Kon Hock Khaw, Pete Knoepfler, John Lewis and Ed | ments.

Field Trip Enjoyed by Blacker Men and Dates

The Acme Brewing Company entertained a large group of Blacker men and their dates last night at the Acme Sequoia Lodge.

Dinner was served at seven, and this was followed by a moving picture about the manufacture of beer. During this time, Acme was offering a liberal sample of their fine product.

The evening's proceedings were very enjoyable and a fine time was had by all.

Are you an expectant father? this goal. Buell Gallagher, from find that you have to watch Jun- will lend his talents to the Greatthe Pacific School of Religion, ior constantly because you have est Tech Production of the Year, no playpen? Are you supposed then we can't lose! ing to an understanding of the to weigh the future President The AIEE and the IRE will Christian Faith. Martin Hall, but can't because you have no baby scales?

> If all these things are keeping you from making straight A's, we suggest you take advanman, from Stiles Hall at U.C., tage of the Caltech Service League's baby equipment lending library, of which Mrs. A. H. Sturtevant 1233 Arden Road librarian. This equipment has been obtained by Mrs. Sturtevant and other League members to be loaned to student families, both graduate and undergraduasking. The only strings are that it be returned to the lending pool when you are through with it.

Of equal importance to cammembers will be invited when provided. Caltech avenged an pus is the Well Baby Conference, which is conducted by Dr. Belle than the number of members at in a six-man football game. The Dale Poole, pediatrician, every tending. Due to some doubt as score was 1-0. Oxy did not field Monday at 4:30 p.m. in the new to whether all the SAE enrolled a team. John Lewis showed Health Service Building (the what Caltech men are made of smallest of the four new temficers of the branch, Joe Wechs- by going swimming in the ocean porary buildings just west of the Athenaeum, north side of campus). Children of graduate, undergraduate students and research fellows, up to two years of age are examined free of term, having finished off last charge. Mothers, or fathers, term with an assembly. Many should call Miss McMichael in Dr. Kremer's office for appoint-

> Babies that are ill or have colds should not be taken to this conference. In such instances as these, call Miss McMichael who will arrange for a visiting nurse to come to your home if you

Interview Schedule

Minnesota Mining and Manufacturing Co., St. Paul, Minn. Open Interview. Both Senior and Graduate Students in Chemistry, Chemical Engineering, and Physics.

Ethyl Corp. Research Laboratories, De-troit, Michigan. Senior Students in Chemical and Mechanical Engineering in upper 20 per cent of class scholastically and who are interested in internal com-bustion engines and fuels.

Tech Debaters Place In Nationals

Outline Activities

Heaving Greek togas, slide rules, and the last dimension of Vector to the Winds of the Past, the Caltech Drama Club—for Tech Bio Labs down to some organizational endeavors tonight, Thursday, in 206 Dabney at 7:15.

Develop New

Come on Out!

All prospective, embryo and remotely conceivable actors doing so. The result has been writers, directors, and dear-Godsend - us - some-more stagehands will be welcomed with a hearty "Hie thee hither!" by the "veteran" thespians of Greek Play fame: Bruce Worcester, Mitch tional parking space was pro- Cotton, Tom Stix, Fred Smith, The Eastman professorship is vided in Tournament Park and Carl Price, Walt Mudgett, Tom Tracy and Bob Heppe.

New Approach

A radical show-don't let this get to Senator Thomas—is planned for early in the Spring Term, to be composed of not one, will find a nest from which to steal scenes in one of these epi-

Girls! Girls! Girls!

The Drama Club is reverting to the delightful pre-war tradition of encouraging girls from the Playhouse and P.C.C. to take part in Tech productions. This is calculated to add a certain zest to rehearsals.

Men Wanted

Specifically, the organization will need a General Manager, simply scads of actors. Rumor has it that even Harvey Wright Are you already a father and is going to try out—if this snake

Local Chess Club

phone SYcamore 2-2514, is head at 8 p.m. in the quarters of the Pasadena Chess Club, Central Park, on Del Mar, between Fair Oaks and Raymond (take Allen Avenue bus). All Caltech chess players, undergrad, grad, or facate, and it's available for the plty are urged to come out and avenge the defeat suffered by Tech in the last match. There may be a shortage of Caltech players and anyone who comes is assured of a game.

Glee Club Meeting Starts Term's Work

The Caltech Glee Club meets again tonight for its first practice of the present term. The club is starting off fresh this will remember the fine work done by this group on the Friday before finals of last term.

President George Drapes states that any new members will be welcome. At the present time the bass section is little weak, much to the surprise of all, since there usually is a surplus of low

If you enjoy singing and would like to spend a couple of hours a week doing it, come around. The Glee Club meets at 8:30 every Thursday night in Throop Club lounge.

ATTENTION **TECHMEN!**

Turn in your BIG T Proofs to Lloyd's Studios IMMEDIATELY!

The Public Relations Department of the Institute has recently made the following announce. Ambitious Thespians Sulmeyer Annexes Third in Oratoru At Salt Lake City Tournament

Growth Inhibitor

From the leaves of a low dome-shaped desert plant which Americans call the Brittle Bush, the Mexicans and Indians call Incienso and known to scientists as Encelia farinosa, a new plant growth inhibitor, and a weed killer, has been developed at the California Institute of Technol-

Not only did Caltech Biologists James Bonner and Reed Gray determine what the laves of the Encelia plant carried that inhibited growth around it, but they also have been able to reproduce the plant inhibitor synthetically. It is 3-Acetyl-6-Methoxybezaldehyde, a new chemical compound. They call it AMB for

Dr. Bonner's observations of Encelia farinosa plants growing in their natural habitat on California and Arizona desert lands led him into the investigation. He noted that while many desert plants apparently attract and favor growth of plants around them, Encelia farinosa had little, if any, such plant life about it. It was his curiosity about why this occurred that led to the development of the new plant inhibitor.

He was not, however, the first to turn the plant to human use. Indians chewed its resin and also smeared it warm on their body to relieve pain. Early Padres burned the crystals of resin which exude from the somewhat woody stem as incense. When melted it was used Challenges Techmen as a varnish. But it was in the leaves, not the stem or roots, that the Caltech scientists found The Pasadena Chess Club has the plant growth inhibitor, isoagain challenged Caltech to a lated it, and then produced it match, to be played this Friday synthetically. It is a compound that has never before been reported and was previously unknown to chemists.

Research on AMB as a spray to kill remains to be done and all information to date has been obtained through introducing the inhibitor through the root system. It was found that if a plant took up as little as one milligram of AMB growth was markedly inhibited. If it took up as much as two milligrams it died.

What are the practical applications of the new chemical compound? The Caltech scientists feel that work has not progressed far enough to justify making predictions but do point out that compounds like AMB, which have selective killing action, hold considerable promise as weed killers.

They are more interested in the fact that their experiments tell them something of the sociology of plants in their native habitat, pointing out that Encelia, by its toxic action, helps determine what plants grow in association with it. "This property of Encelia is a chemical

(Continued on Page 4)

FOR FREE .. The Public Relations Office

informs us that a representative of a major cigarette company will be on campus Monday. At 11 before assembly he will be near Culbertson and at noon along the walk east of Throop and distribute CITmonogrammed plastic cigarette cases . . . so keep your eyes open!

Schutz Seeks More Talent As Meet at Tech Nears

In a national speech tournament entered by 125 leading universities and colleges, two Caltech debaters, Bob Smith and Irving Sulmeyer again proved Tech's forensic ability and did more than their share to maintain West Coast honors. The tournament was held at Salt Lake City on Dec. 29, 30, 31, at which time the best speakers in the country competed in debating, extempore, impromptu speaking and a new event, a simulated United Nations Con-

Tech Second in Debating

Tying with five schools, including U.S.C. and U.C.L.A., the Caltech debaters, Smith and Sulmeyer, won second place in a field of 500 entrants. First place was won by Willamette U. and the U. of Utah.

Sulmeyer Only Californian In oratory, Irving Sulmeyer, the only Californian in the finals, took third place with his oration, "The Golden Thread." His oration, based on Wendell Wilkie's "One World," traced the contributions of this man to constructive thinking on world

Many Invitations Extended

For their excellent showing in debate and oratory, and for the leading part they took in the mock U,N. session, Smith and Sulmeyer were awarded certificates of merit. Many invitations were extended to Tech to debate as a result of the fine work of these two men. Since Tech was able to send only two men, the lack of representation in the lower division prevented Tech from trying for the sweepstakes

Invitational Meet in February

award.

Tech will be hosts to the West Coast schools in a tourney on February 6 and 7, tentatively to be held in Dabney Hall.

Anyone interested in debating is urged to see Dr. Schutz, whose office is in Dabney Hall. Particularly freshmen are needed to develop themselves to the point where they can take over the reins of the upperclassmen.

DuPont To Offer Post-Doctorate, Graduate Awards

The Du Pont Company has announced that it is awarding 81 post-graduate and post-doctoral fellowships to 47 universities throughout the country for the 1948-49 academic year.

Caltech is included among the group of universities receiving a post-graduate fellowship in the field of chemistry.

Each post-graduate fellowship provides \$1200 for a single person or \$1800 for a married person, together with an award of \$1000 to the university. Each post-doctoral fellowship provides \$3000 for the recipient, with a grant of \$1500 to the university. The grants to the university are intended to finance tuition and fees, and whatever funds remain are to be used by the administering department as it sees fit.

The selection of candidates for the fellowship awards and the choice of problems on which they are to work are, as in the past, left to the universities. The individual is under no obligation with respect to employment after her completes his work under the fellowship.

The California Tech

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EPHEMERAE Shavings

Old Etaoin 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, manner: Football, Frosh 22, Varthat it is tradition for the editor to flunk out and most of sity 20; Water Polo, Varsity 11, the department editors to be hanging on the ropes by term 6, Frosh 5.

Still Here

As you can see from the masthead above, we're all still here est which has come up in the rethis term-but-and at least in cent past was a case of cheating the years I've been helping with tried by the Board of Control. this sheet it has never happened | The man was warned in class by before—believe it or not, the edi- his classmates because of his torial board of the Tech has come up with a collective GPA neighbors during a test. This 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 Board of Control was notified. Bate. And their excuse for leaving was "grades." Come back, determined on this last instance fellows, you can do it here too! of cheating, his penalty was that

Seriously, though, I'd like to get over the point to those of the remainder of his undergradyou who would like to work on ute days at the Institute. This the Tech and are still wavering decision was approved by the on the brink, that perhaps hav- Faculty (which, incidentally has ing the additional load that we approved all penalties ever set will promise you if you join us by the Board of Control) and will prove a help rather than a this will be placed upon his

(Continued on Page 4)

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Oaks on the 20th.

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

The undergrad geologists came up with a smoth 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 outgulped 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.

..Charlie Steese

from the Board

Athletics

The main item that came up

at the last Board meeting before

"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

Board of Control

The only other point of inter-

fairly obvious copying from his

served as a first warning and

when it seemed that he was

cheating in a subsequent test, the

Since absolute proof could not be

of being placed on probation for

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 the advent of the Terror called 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!

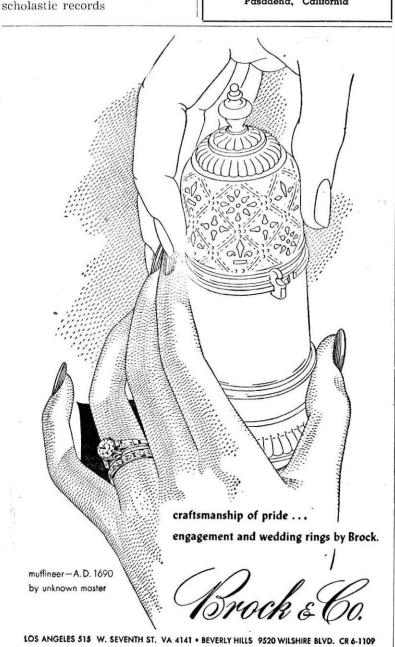
Christmas vacation saw all sorts of people doing all sorts Frosh 5; Cross-country, Varsity of things, but most of them will not admit it. We have already promised numerous people not to tell.

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

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

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CAMPUS

One of the better field trips ally wild New Year's Eve party. of the year was held by the Geol- It was so good that after the ogists who put the old term to early part of the evening all they bed with a brawl at Mountain can remember is the sound of popping corks and the sensation of warm breath.

Doings in Denver

In Denver were Hugh Carter, and John Fee. There was some 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 Washnigton. 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 Mittenthal 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 4c-a-dance

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 Howard Cohan, Paul Fullerton terms with Vector that he writes a column which we won't mentalk of an orgy there, but with tion 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-poing 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 consum-

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)

CAMPUS BARBER SHOP In Coffee Shop Building (OLD DORM)



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that all men are creation agnos. 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, Now we are engager on a great airl was, text. 1863. The original, along with more than a ing whether that nation, or any nation, so concerned, famous in American history, is on exhibit aboard the "Freedom Train". This train is now here on a great battle-freew of their way. We are the come to declerate a portion of it as the free rest.

Come to declerate a portion of it as the free rest.

Ling place of those who have gave then lives that ing place of those might have. It is altogether fitting that matter might have. It is altogether fitting on a nationwide tour. Watch for its arrival and proper that we shorter do this. But in a larger senso we can not decleated we can not consecration we can not halen the growner. The brave men, living and dead, who day. have consecration it for alone our four

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Beaver Sports

Talkin' It Over

with The Goon

Happy New Year, men! Hope backfield boys handle the ball. that most of you have recovered from those wild two weeks of broken training. Doc Hanes is patch this vacation were most currently doling out sufphur and of the Varsity. The bucketeers Frosh sports, we will attempt a molasses, for the boys aren't spent a few quiet evenings getquite back in condition, so in ting the third degree from the case you still have those 3.2 L.A. Police Force squad. I don't plays their first conference Blues, drop over to the field want to say that the cops were house.

Saw my first football game on television New Year's Day. Tele. must have averaged 210 pounds vision is here to stay, but I'm and stood 6-feet 2-inches tall. and that our boys are in for a not sure about the Trojans. Even the Michigan band outplayed the lads in the Red and Gold—glee were on the 20th Century-Fox considerable practice as was club and all. Andy was think- team that consistently won the shown in a scrimmage against ing of going T next year with "Perry" Gothard in the quarter, lettered for the Trojans and last Monday night. Although the but after watching the Wolver other small schools in the viines pulverize Troy, "Fritz" An- cinity. derson 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 op- pital to get stitched up a bit position while all four of the

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Third Degree

Digging around the casaba All-American, two men who AAU title, plus a few others who

Montgomery got the roughest going over; the cops must have thought he robbed a bank. They sent him to the receiving hos-

(Continued on Page 4)

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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 column.

The Frosh basketball team game of the season tomorrow very big or very good, but they night at Oxy. Via the grapevine, had a team on the floor that it is rumored that the Tigers have a rather nice Frosh team Not only that, but they had one tough battle. After a two week layoff, the Frosh are in need of the Presbyterian Church five, Beaverbabes won rather easily, they were rather sloppy in their

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 flive, 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)

CARL'S CALTECH BARBERS

5 GOOD BARBERS—APPOINTMENTS IF DESIRED

ON CALIFORNIA NEAR LAKE

DU PONT \/ /IGEST For Students of Science and Engineering

Rubber accelerators lead the way to new agricultural fungicides

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, NH2-C(S)SH, parent substance of a well-known group of rubberaccelerators, 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, (CH₃)₂N-C(S)SNa, even in dilutions of 1:30,000, was found to be a powerful fungicide, but somewhat injurious to

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

Vulcanization accelerators for rubber 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.

> gicide and "Zerlate" fungicide respectively, for control of fungous diseases of many fruit and vegetable crops, tobacco, flowers and other ornamentals, Zinc ethylenebis (dithiocarbamate), Zn(-SC(S)NHCH2CH2NH(S)CS-). marketed as "Parzate" fungicide, has specific action in the control of late

> Iron and zinc dimethyldithiocarbamates, $(CH_3)_2NC(S)$ -S-M-S-(S)CN $(CH_3)_2$, are now sold as "Fermate" fun-







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, (CH₃)₂NC (S)-S-S-C(S)N(CH₃)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

What are the opportunities for research men?

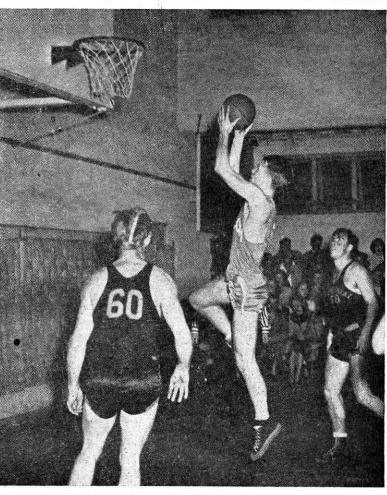
Men qualified for fundamental or applied research are offered unusual opportunities in facilities and funds. Investigations in the fields of organic, inorganic and physical chemistry, biology, parasitology, plant pathology and engineering suggest the wide range of activities. Write for booklet, "The Du Pont Company and the College Graduate, 2521-A Nemours Building, Wilmington 98,



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More facts about Du Pont - Listen to "Cavalcade of America," Mondays, 8:30 P.M., PST on NBC

BOWEN AIMS FOR BASKET



Ted Bowen, Tech forward, is shown here, center, in an ing 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 Tiror team to its knees. 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 nipand-tuck affair from the opening up 22 points while Saltman conwhistle. The Beavers grabbed a tributed 18. 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

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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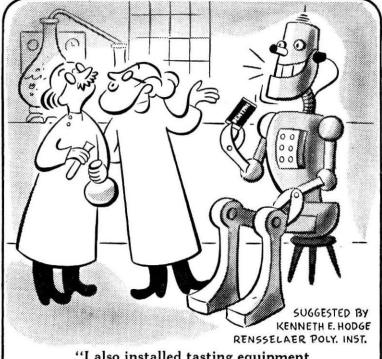
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While on Scripps, I have just

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 any-

body. However, to prove to the

everdoubting female that I am

big and brave, this copy will be

serves us, and resolve to spend

at least one night a week mooch-

I am never going to complain

signed.

my friends.

Opportunities Open On Staff of "Tech"

There are several openings on the staff of the "California crowd and accidentally his watch Tech" for anyone, yes anyone, along with it. His next move was who can write, type, gather news or is not violently opposed by turning on the lights, climbto learning some of these pre- ing on the thing we are not alcious skills reserved to members | lowed to mention in this column of the Fourth Estate.

All persons interested in serving themselves and their school should run, not walk, to the mob to spare a few seconds to "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 appreciation, the two of them the team at the conclusion of the water polo season where he made a fine showing on the firststring. He will probably alternate with Thorne Butler at

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 to make a boor out of himself in connection with our fair campus (there is one at the Skip Inn, however) and asking the 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 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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only that much more frustrated. | EPHEMERAE

(Continued from Page 2) finished reading Misses Mewhirhindrance. As heavy as the work ter and Weaver's gush column in is here in comparison to other schools, it isn't near the break-

> ing point. Sometimes an additional spur is just the right thing to encour-

age 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 about the food Mrs. Bunton and eyelifting items in this

ETAOIN SHRDLU.

ing Haig & Haig from one of The last item is that Yours but then if you wrote this colwish you the best for the com- name?

TALKIN' IT OVER

(Continued from Page 3)

gets scratched he's going to have mals is psychological, that of the doc cross-stitch "Home Sweet plants is chemical," Bonner said. 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

Hard Weed-end

Ed. Note: Don't think this games this week-end. Oxy on tet looked very powerful at the Shrdlu is the same one we know, their floor is a tough combina- Invitational Tournament a few tion to beat. The Tigers know days ago but I think that the old Truly and the whole Tech staff umn would you use your real just how to block you into one Beavers might gnaw a win from of the stone pillars that decorate them. See you at the games.

TECH BIO LABS

(Continued from Page 1) around the eye. This last scare warfare agent winch wages war puts Jay ahead of Dennis Long on other plants trying to enin the race to see who gets cut croach its domain. It also shows up the most. Next time Monty that while the sociology of ani-

the floor, while smiling so sweetly at the ref. Even with the loss of their star forward, the Bengel five is still one of the strongest in the league, while the lily-white amateurs out Pepsure he wasn't pushed around. perdine way have again scoored the Midwest for eight or ten melon men who "like the atmos-Ought to be a couple of good phere out here." The Wave quin-

