



# The California Tech

Published every Thursday during the college year except during examinations and holiday periods.  
**CALIFORNIA INSTITUTE OF TECHNOLOGY**  
 1201 East California Street, Pasadena, Calif.  
 Subscription rates \$1.50 per year  
 Entered as second-class matter Nov. 22, 1947, at the Post Office in Pasadena, California, under the Act of March 3, 1879.  
 Offices: Lower Fleming  
 Telephone: SYcamore 6-7121 Ext. 180  
 Distributor of Collegiate Digest

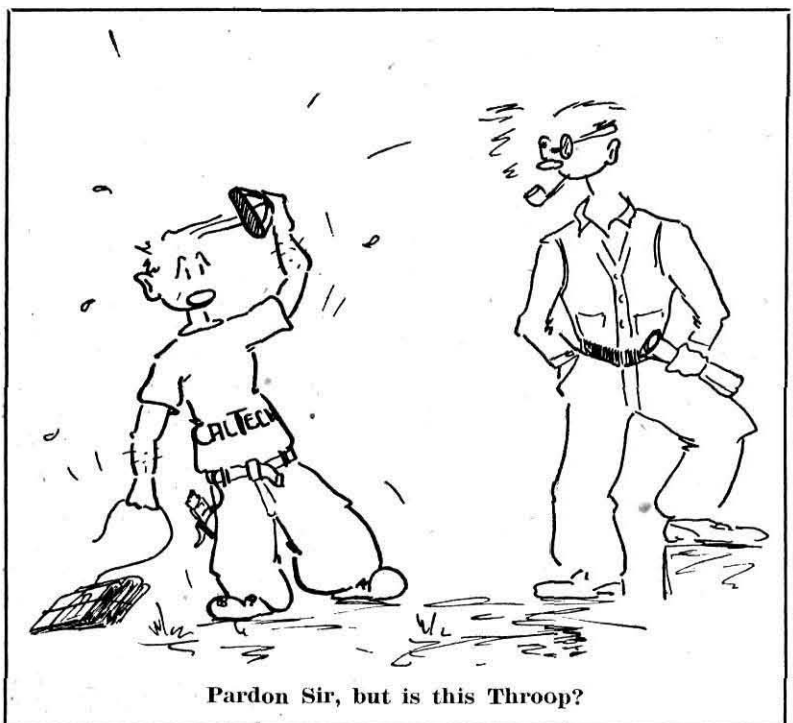
Jim Hummel, Editor

### EDITORIAL STAFF

Managing Editor.....Earl Hefner  
 Sports Editor.....Thorne Butler  
 Feature Editor.....Bob Kurland  
 News Editor.....Eric Johansson  
 News Staff.....Fred Drury, Bruce Stowe,  
 Woody Bratnaber, Ollie Gardner, Dick King, Bill Wright,  
 Tony Malanoski, Stu Goldman, Carl Price, Wayne Herzig  
 Rewrite Staff.....Bob Haufe, Chief  
 Lee Ross, Alex Drapes, Charles Steese, Bruce Stowe,  
 Bob Kurland  
 Special Writers.....Fred Wood, Paul Saltman, Dick Schuster,  
 Stan Boicourt, Dick King  
 Sports Staff.....Dale Krause, Erle Brown, Leon Michaelson,  
 Woody Bratnaber, Bill Harris, Stan Boicourt  
 Photographers.....Hugh Stoddart, Chuck Wallace

### BUSINESS STAFF

Manager.....Bill Bradley  
 Circulation Manager.....Win Soule  
 Business Staff.....Charlie Steese



Pardon Sir, but is this Throop?

## Student-Faculty Relations

The Student-Faculty Relations Committee which meets once a month to discuss problems bearing on both students and faculty has frequently been accused of being a "secret" organization. Very little information is circulated among the students about the decisions of the board.

This was never the purpose of this committee. The topics discussed at these meetings are of interest to the student body at large as well as of interest to the faculty. In order to give this information to the student body, this column is being inaugurated.

The meeting held this week was devoted to the question of smoking in class. There have been many objections on the part of students, especially the older students, about the no smoking rule. These students feel that they should be allowed to smoke in class.

However, there is a certain percentage of students who feel that the rule should be enforced. After a lengthy discussion the committee decided to keep the present regulations of no smok-

ing in under-graduate classes. This was due mainly to the volatility of those who object to smoking. Dean Strong brought out the fact that some twenty students had come to see him to object to the present leniency regarding this rule.

Of course it may be that the number of students who desire smoking in class, or who wouldn't mind is quite large. But the only way the Student-Faculty Relations Committee has to judge the percentages is by the number of objections they receive. Short of a student poll, there seems to be little hope of answering the question in a positive manner.

However, if you have a strong feeling on this subject, pro or con, drop a note with your views on it in the box of the California Tech in lower Throop. Unless it is shown that only a very small percentage of students actually do object to smoking in class, the present rule will remain in effect.

## Seniors . . .

Have you signed your B.S. candidacy yet?  
**DO IT NOW!**

## CAMPUS BREWINS

I had a dream the other night. It was pretty awful. I guess it was after the Oxy Exchange; we had invited a few girls to see our rooms—there was a song or two, cookies were passed, then the mistake of returning to the dance floor and the stag line. Strange sort of a dream, don't usually have them:

Three RA's and four House presidents in descending order are led by a briskly striding Rube Mettler. A smart Column-Right is executed on Arden Road, followed by a staccato "Camp'nee Halt!" There is opening of doors, an orderly entry into Staff Headquarters. Salutes and words of greeting are exchanged. There is rustling of a magnificent moustache, and the Orders-of-the-Day are heard:

"Gentlemen, it has come to my attention . . . (Dave Browne breaks out in a cold sweat) . . . that some of the (ahem) regulations concerned with the governance of the Student Houses have . . . ah . . . lapsed into disuse. Now it must be perfectly obvious—even to Mr. Bruington here—that regulations are of no value unless they're enforced. We might as well . . . (Al smiles sweetly, raising his hand, but The Colonel parries with a nod) . . . just let me finish here, and then we can all have our say.

"First I want it understood that, though I don't necessarily approve of all these rules, it is my duty to act in my office as Master of the Student Houses when infractions are brought to my attention. (Significant glances are exchanged among the RA's. Saltman laughs deep in his throat). Gentlemen, I think it would be much simpler for all of us if we drafted a new set of regulations upon which prior agreement is reached. These new regulations must, of course, be enforced to the last letter! I have here a questionnaire for the personnel in this command (Browne coughs) wherein suggested changes in the regulations may be offered by the men who must ultimately obey them. I think this is the most democratic procedure. (A wave of his hand indicates a pile of mimeographed paper). These will be filled out in triplicate and returned to the officers-of-the-Day.

Hayward queries, "You mean if the troops, I mean the House members, agree on a given rule, then it becomes a part of the regulations?" Folded hands and a nod indicate his assent.

"Of course, the final decision rests with me . . ."

My mental image becomes hazy; I hear crescendoes of Saltman-like laughter, accompanied by a flowing avalanches of questionnaires, in triplicate. Millions of them float downward, sifting through the rarified upper levels, pivoting northward and to the east; then as if caught in four vortices, the white sheets

whirl and descend into the Houses, and finally onto the desks of each one of us.

Above all this are the folded hands and quietly nodding heads.

Form S-chM-00 is read through, unbelieving eyes are rubbed, and pencils put eagerly to work.

The picture fades, and there is silence. Thirty calendar leaves hurtle through the darkness, and a new image crystallizes. It is the Student Houses, R-Night, when the New Regulations go into effect.

All the students are dressed in tuxedos; gay, care-free voices the silver ripple of feminine laughter, clinking of champagne glasses. Four RA's are carried on the shoulders of Bass and Miller into the Fleming-Ricketts Court, where the R-Night Banquet is to begin. Four-hundred armed guards, each wearing a bushy white moustache and carrying a folding chair walk between tables, patrol the halls, and peer through doors and windows. Several are on stilts. All the celebrants seem blissfully unaware of their keepers. The gay evening wears on hour after hour. Happy couples, arms entwined, stroll into the Houses.

I am watching one of the guards on stilts. Suddenly, his benign expression contorts in fury, his right arm extends its length by ten times, reaches through a second-story Blacker window and extracts a disheveled, shivering figure in supplicating posture. The form of the guard expands, the moustache twitches, a New Regulations Book is drawn from a hip pocket. "Opium, but no marijuana!" Under the fiery glow of the guards eyes, the tiny figure becomes smaller and smaller until it disappears in a thin wisp of vapor.

From the depths of Fleming a low, pulsating roar is heard. Twenty-odd men spill out of the west gate followed by as many guards bearing a huge placard: It reads, "Rule 89-x: Beer and Wine, no Stout!" One wall of the Astro Lab wheels open, and the retreating sinners are swallowed up.

All is quiet now. Not a soul to be seen, only the guards. Smothered giggles are heard from the Houses. Several guards are methodically inserting through each window a light meter on the end of a long pole. The minimum 25-watt lights (Rule Y-4) glow against the curtains.

Now several couples begin to emerge, make their way to parked cars, and drive off. The emigrant stream increases; the Houses are nearly deserted. The guards earnestly study their watches. Almost as a unit they cock their heads and the sound of a tremendous gong rends the air. Guards race into the

(Continued on Page 4)

## Opportunity . . .

The Caltech Alumni Association is giving the first in their proposed placement opportunity series next Wednesday. This series will offer a unique opportunity to those of you who are about to graduate. This is the first time that an attempt has been made on campus to bring a whole series of discussions, lead by competent men from outside the institute, to the student body.

These leaders will not be faculty men; they will be men from industry, capable of telling the students the exact need for trained men, what sort of wages they would be offered, and how they could best take advantage of any opportunities which might arise.

The actual details of the project may be seen in the story on page one. A careful reading of this story will show that the alumni have attempted to put together a series which would give the students the greatest possible opportunity to learn more about the points which are actually troubling them. At the meetings there will be a short twenty or thirty minute talk by the speaker. After this there will be a great deal of time devoted to discussion.

The last point might need some clarification. The picture it probably leaves in your minds is that of a "question period" after a lecture, during which the speaker stands on a raised platform, resting the fingers of one hand lightly on the top of a table, and needing only a glass in one hand to complete the picture of studied disinterest.

Actually, nothing could be further from the aim of the series. The discussion period will not be a question and answer period, but a time for discussion. During this period the leader and the students present will talk about the problems they have. The discussion will be highly informal, with the leader attempting to get to the heart of the question and trying to get across his views as gathered from experience to the students who are about to go out into the business world.

This series can be highly useful to the students if they will take advantage of it. The first talk, which will be given next week will center about the problem of opportunities in small and large industries. This talk was carefully selected as the first in the series since this is the problem which would most often be uppermost in the mind of the student who is looking for his first job.

"Should I go to work for a small company where I would be able to advance fast, or should I go to work for a large concern where I would have the advantage of being able to work with a great variety of new and expensive equipment which would not be available in a smaller company?"

Questions like this bother all of us when we begin to choose our first job. Mr. Johnson, the first speaker, will attempt to weigh the good and bad points of each choice in such a manner as to help you decide what would be best for you personally. The individual is the important unit in cases of this nature. Some would be quite happy working for a small industry, others would feel hamstrung.

This series will be of greatest interest to the seniors of course, but anyone is invited to come. If you plan to graduate (and all of us have wishful dreams to that effect) and eventually settle down to working in the cold, cold world outside, then you should come to these lectures so as to be better able to evaluate the advantages and disadvantages of any position which is offered to you when you graduate.

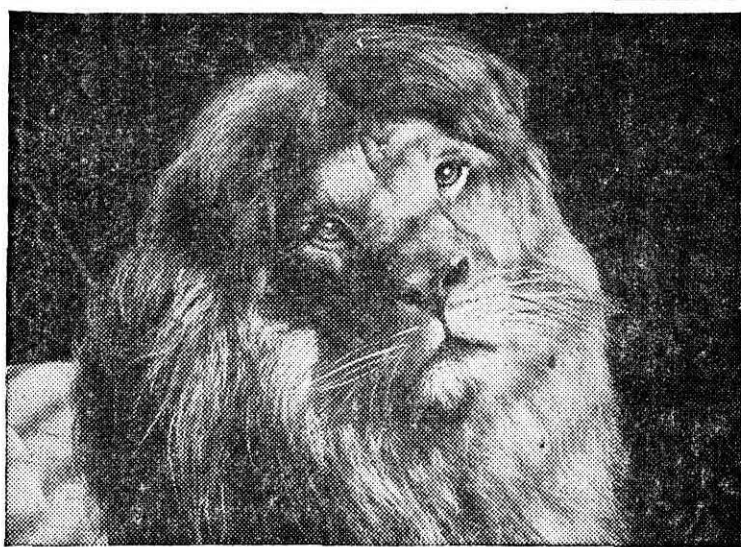
The way to get the most out of this series is to think over the subject before you arrive. If you have a clear idea about your problems, it will enable you to obtain a clearer answer to them. But if you only have an uneasy feeling that you don't quite know what you would like to do, come anyhow. These lectures will probably help crystallize your ideas and enable you to look forward to graduation with a feeling of confidence.

—J.A.H.

**WHEN YOU ARE HUNGRY  
 WHEN YOU ARE THIRSTY  
 OR  
 WHEN YOU JUST  
 NEED RELAXATION  
 IT'S THE  
 SKIP INN  
 Beer - Plate Lunches  
 1352 E. WALNUT  
 Open Till 2 A.M.**

**CAMPUS  
 BARBER SHOP**  
 in Coffee Shop Building  
**ALSO AGENT FOR  
 LAUNDRY**  
 Picked up Monday,  
 Delivered Friday  
 and  
**CLEANING**

## J. Paul Sheedy\* Switched to Wildroot Cream-Oil Because He Flunked The Finger Nail Test



REMEMBER the mane? You should have seen the one on this social lion before he switched to Wildroot Cream-Oil. It was positively beastly! So may we paws to make a suggestion: try a little Wildroot Cream-Oil hair tonic on your own hair. You'll roar with approval when you see how it grooms your hair neatly and naturally without that greasy, plastered down look. How it relieves dryness, removes loose dandruff and helps you pass the Fingernail Test! Wildroot Cream-Oil is non-alcoholic and contains soothing Lanolin. Ask your barber for a professional application. And get a bottle or tube for your den today. You'll find it at any drug or toilet goods counter. We aren't lion when we say you'll like it better than any other hair tonic. Most of the cats do!

\* of 327 Burroughs Drive, Snyder, N. Y.

Wildroot Company, Inc., Buffalo 11, N. Y.



Engagement and wedding rings by  
**Brock & Co.**  
 LOS ANGELES • 515 WEST SEVENTH STREET • VA 4141  
 BEVERLY HILLS • 9520 WILSHIRE BOULEVARD • CR 6-1106



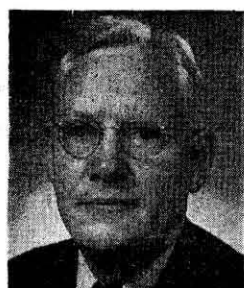
## HOUSE JACKETS

Corduroy and Flannel  
 Men's Distinctive Fashions

881 E. Colorado



Open Fri. & Sat. Nites



## HAROLD O. GRONDAHL

Representing

## NEW YORK LIFE INSURANCE COMPANY

234 E. Colorado St., Pasadena

Phone SY. 2-7141

**The Front Burner**

Somerset Maugham's comedy "The Constant Wife" features the problems of a constant wife with a not-so-constant mate as the theatre bill-of-fare at the Pasadena Playhouse.

Isobel Elsom plays the title role in the Maugham comedy with major roles carried by Wilton Graff, Carl Harbord, Virginia Kelley, Patrick Whyte, Renee Mercer and others. The Playhouse staging also serves to introduce Robert Milton in his first Playhouse directorial assignment.

"The Constant Wife," long a New York and London hit, is currently running from October 13 to 24 as the second playbill in the new season.

**PHOTOGRAPHIC STARTS**  
(Continued from Page 1)

other. Appointments will be made in the lounge of the house after dinner. It will take about two weeks to complete one house. Ricketts House is to be photographed first, and the other Houses will follow. Members of Throop Club and other off-campus students will be photographed during the latter part of the term, and appointment arrangements for them will be announced at that time.

The hours will be from 7:30 p.m. to 9:00 p.m. Monday through Thursday evenings in the Big T office, and 1:00 p.m. to 5:00 p.m. Friday afternoons at Lloyd's studio in downtown Pasadena. The price this year is \$1.25, including all taxes. (This is 3c less than last year).

**Tech Radio Group Plans Code Class**

Last Monday night the Caltech Radio Club held its first meeting of the school year. The Frosh class supplied a surprising number of hams and about ten (they should beat their heads against the wall so hard!) who are interested in learning the code and getting amateur tickets. It is hoped that the Club will be able to organize a code class for those interested, possibly in cooperation with the Pasadena Short Wave Club. Another meeting will be held next Monday at 7:00 p.m. in 401 Bridge. Business will be code practice and new membership; getting some equipment on the air and organizing a

**ASCIT Exchange With Oxy Held In Houses**

Last Friday night the ASCIT exchange with Occidental came off as scheduled. About forty-five Oxy girls, mostly freshmen, were transported to CIT, where a great number of Techmen turned out to greet them. A ratio of approximately seven to one resulted.

The girls went to Throop Club, Fleming and Blacker Lounge where they danced to records and were subjected to various mixers. Refreshments were served in Throop Club and Ricketts and some of the more successful men enticed the girls to view the Dabney television.

**Great Season Seen For Ricketts Socials**

Another season of smashing social successes is scheduled for Ricketts House, according to Bill Bradley, calculator of the calendar.

**Big Events**

Following the Oxy game, an Open House will be held, with an Exchange tentatively planned for the succeeding evening. The next weekend will witness a flurry of activity in preparation for the Interhouse, with a Decorating Stag preceding this event. Another Open House will be held after the Redlands game.

**Bigger Events**

Bowlers, ice skaters, and devotees of the stage will all be accommodated in a novel combination party to be held the weekend before Thanksgiving, with Terpsichoreans and tipplers to be entertained at the House later that evening. The final week of the term's social whirl will feature one of those notorious Ricketts Barn Dances, about which nothing further need be said.

**Lincoln Welding Foundation Offers Student Awards**

Regulations for their annual Engineering Undergraduate Award and Scholarship Program, which offer competition in the field of arc welding application or technology, have been announced by the James F. Lincoln Arc Welding Foundation. 77 individual awards are offered, ranging in value from \$1,000 to \$25.

All engineering undergraduates in any school that offers engineering curriculum are eligible to compete. Papers on arc welding must fall in one or more of the following categories: (1) Design, (2) Maintenance and Repair, (3) Welding Fabrication, and (4) Research and Development.

Full information may be obtained by writing the James F. Lincoln Arc Welding Foundation, Cleveland 1, Ohio. All entries must be submitted by April 1, 1949.

**Geology Club In Big Meeting**

The largest meeting in the history of the Caltech Geology Club was held last Wednesday, Oct. 6, in 155 Arms, with about 120 members, guests, wives, and sweethearts witnessing a program which featured prominent members of the staff. Dr. Chester Stock, division chairman, delivered a message of welcome in his own inimitable style; Dr. Richard Jahns praised the morale of Tech geologists; and Dr. John Buwalda traced the history of the department from its humble beginnings in 1925 to its current "golden age."

Old business consisted of rail-roading Beach Leighton into the presidency, to replace Edwin Buffington, who recently left Tech for greener pastures. Elder Denson was then elected vice-president. Movies and slides depicting various summer trips of Caltech rock-breakers were shown, after which the program was dismissed for refreshments.

**TECHMEN JUDGE GIRLS**

(Continued from Page 1)

ting down to feast and chat. As might have been suspected, there were ulterior motives to this sudden relaxing of strict codes, in this case, the whole affair was designed to select the best decorated rooms in the dormitories. Each visitor was handed a ballot and asked to estimate the relative merits of the rooms on the basis of their interior decoration. It is not known how many Techmen were able to limit their evaluating abilities to decorations when they felt so much more competent to judge refreshments and the winning ways of their hostesses. Nonetheless, winners were announced during the dance that followed.

Although it might be said that CIT students were rather outnumbered at this affair, and so somewhat handicapped, the majority feel that the Pomona girls are to be congratulated for their successful evening.

**First Dabney Beach Frolic**

Dabney House began its social season in fine style last Sunday when about 25 Dabneyites left the pits to loaf on the beach with their dates. Location was the traditional strand at Emerald Bay.

The party began with the arrival of beer and food in the morning and continued till late that night. Day was marked by perfect weather and was occupied with organized sports and plentiful consumption of beer and hot dogs. All told it was a very successful outing.

This Friday there will be a theater party at the Pasadena Playhouse. On the program is "The Constant Wife" by Somerset Maugham. As usual there will be a record dance after the show.

**Students Offered Work As Proctors**

Students who have had at least two years of college are eligible to apply for part-time Saturday work as proctors in Civil Service examinations. The work is for about 5 hours a day, for either 1, 2, or 3 Saturdays a month. Proctoring involves administering written, and sometimes oral, examinations, the proctor need only see that everything is going all right and to take part when necessary. The salary is \$1.21 an hour.

**I. Q. Exam**

Applicants must take a standardized I.Q. exam, to be given October 30. File for applications at L.A. City Hall, room 11, First and Spring streets, in the Los Angeles Civic Center. Deadline for filing is October 21.

**More Info**

Additional information may be obtained by calling Mr. A. B. Stauch, Personnel Technician, Michigan 5211, Ext. 734.

**Help To Students Offered By Taubate**

The Tau Beta Pi chapter on campus, in conjunction with the Caltech Y, is offering a tutoring service to all undergraduates who are interested. This service was offered last year also, and at that time a great many students took advantage of it.

**How to Get Help**

To obtain help in any subject, a student merely has to drop by the Y office and ask for help. Wes Hershey will be glad to give you the name of some Taubate who has expressed a willingness to give aid in the subject you (Continued on Page 6)



*First Again with Tobacco Men!*

More independent experts smoke Lucky Strike regularly than the next two leading brands combined!

An impartial poll covering all the Southern tobacco markets reveals the smoking preference of the men who really know tobacco—auctioneers, buyers and warehousemen. **More of these independent experts smoke Lucky Strike regularly than the next two leading brands combined.**



*First Again with Tobacco Men!*

So, for your own real deep-down smoking enjoyment, smoke the smoke tobacco experts smoke!



COPR., THE AMERICAN TOBACCO COMPANY

**LUCKY STRIKE MEANS FINE TOBACCO**

So round, so firm, so fully packed — so free and easy on the draw

**CROWN**

129 N. Raymond, Pasadena SY. 6-5100  
Doors Open 12 M., Cont. Daily



—PLUS—



**PATRONIZE TECH ADVERTISERS**

**PRESIDENT ADDRESSES**

(Continued from Page 1)  
a wide and varied training program regardless of immediate monetary return. Mr. Bailey also stressed that the stability of the concern is of great importance. He warned of over specialization both in education and in the early years of professional experience.

Urging a broader outlook for the engineer, Mr. Bailey stressed the desirability of taking part in civic affairs and the activities of the engineering societies.

A lively discussion period concluded the meeting.

**CAMPUS BREWINS**

(Continued from Page 2)  
houses, flash down the halls, opening doors and switching on lights. Knots of them are clustered here and there with great war machines battering down the doors or ripping off the window casements from the outside. At folding-chair-point the occupants are marched down the halls.

Now a handful of frightened couples are herded down The Brick Walk, some with their wine glasses still in nervously-shaking hands. There is a muffled scream or two. The procession can be seen disappearing into a portal in a distant statue at the end of the Walk. It resembles a Buddha with folded hands and slightly bowed head.

The last two guards close the steel doors. One says to the other, "It's rule Z-00, you know—'Not after Three O'clock'!"

**FATIGUE CAUSES**

(Continued from Page 1)  
entire tunnel was subjected resulted in breakage of some of the supporting links of the balance elements. There was no apparent damage to the tunnel shell except in the plane of the downstream fan where three or four serious dents will need repair.

**Inspection**  
Because the entire structure was subjected to a severe racking, it will require careful inspection of critical areas before operation can be resumed.

**No Fire**  
The fact that no general fire resulted, even though the tunnel was filled with a dense cloud of smoke and oil fog, is attributed to the fact that it was being operated at near vacuum condition. The cheesecloth screen at the third corner was obviously completely burned, but no other fire resulted.

There was no injury to any personnel.

Arrangements have been made for the Cornell Tunnel, identical to that at Caltech, to take over the most urgent tests. Availability of spare blades and other parts from the Cornell Tunnel will facilitate speeding up of repair work and have made possible the estimated completion date of December 1, Dr. Millikan reported.

**Checking Parts**  
All apparently undamaged propeller parts are being magnafluxed to determine their true condition, and similar critical examination will be made of the entire tunnel structure.

**2900 Hours**  
The blade which initially failed had operated a total of 2900 hours when fatigue failure occurred. The problem of preventing a recurrence of such fatigue failures is a very difficult one, and is being carefully studied by the tunnel staff concurrently with the emergency repair work.

**Blacker Wins Opening I H Casaba Tilt**

The inter-house basketball season opened last Monday with Blacker downing Ricketts 29-26. The Blue was a big team led by Sweet who racked up 17 markers which were the difference between victory and defeat. Blacker looked strong and may surprise everyone by dribbling off with the basketball honors. Since the other houses have not played at press time, their tentative position cannot be determined, but Fleming can be depended on to field a well rounded outfit.

**No Letterman to Play**  
Preseason talk was going to allow last year's frosh to play which would have given Blacker a decided edge, but the final analysis left all lettermen in the referee status. However, all the houses have quite a bit of unrestricted talent running loose, so the games should be quite close and spirited.

**Schedule:**  
Mon. Oct. 18, Dabney vs. Fleming  
Tues. Oct. 19, Throop vs. Ricketts  
Wed. Oct. 20, Blacker vs. Fleming  
Thurs. Oct. 21, Ricketts vs. Dabney  
Mon. Oct. 25, Fleming vs. Throop  
Tues. Oct. 26, Dabney vs. Blacker

**Grid Experts Vie In Picking Game Winners**

With this second issue of the bigger and better sports page of the California Tech, the battle of the grid experts enters its second hectic week.

**Staff vs. Athletic Dept.**  
It's the Athletic Department versus the Sports Staff in picking football winners of five important pigskin contests each week. The Institute Athletic Staff is represented by Hal Musselman and Coach Andy Anderson, and their opponents, Thorne Butler and Paul Saltman, represent the Tech Sports Staff.

**Hal Tops**  
Last week Hustlin' Hal came up with a 1,000 batting average in calling the winner in each game. His partner fared none too well, by picking 2 out of 4. The two Staff men combined their talents for 7 out of 10. However, Musselman and Anderson called 7 out of 9 to top the journalists in the first round.

**PASADENA BOWLING COURTS**  
970 East Colorado  
Headquarters of Caltech Bowlers  
Open 11 a.m. to 1 a.m. SY. 3-1341  
Special Student Rate before 6 P.M.  
except Saturday, Sunday, and Holidays  
20c Per Line

**Water Polo Team Begins Scrimmage**

This week the Caltech water polo team begins practice in full force. Again this year P.C.C. has agreed to let the Tech men use their swimming pool for afternoon practices. In the absence of Bob Merrick, Bill Dixon, one of last year's outstanding swimmers, has taken over the coaching duties.

**Large Squad**  
A full team of varsity men turned out for scrimmage last week, with a strong lineup of substitutes. Coach Dixon's squad will include Mike Hall, and Bob Waters at forward, with Al Eschner, and Dick Libbey at sprint. Joe Curray, Bill Harris, and Bob Stert at guard, and Bill Palmer at centerback will hold down the backfield. Ed Reincke will probably handle the goal.

**Casualty**  
The first casualty in several years was sustained by Fred Schneider who broke a finger during practice last week. The team has high hopes of having him back in action before the end of the season.

Games have been arranged with Occidental, U.S.C., U.C.L.A., Loyola, and Compton. This week the mermen have a practice scrimmage with Muir J.C.

**Thirty-Four Bowlers Topple Tenpins For Interhouse League**

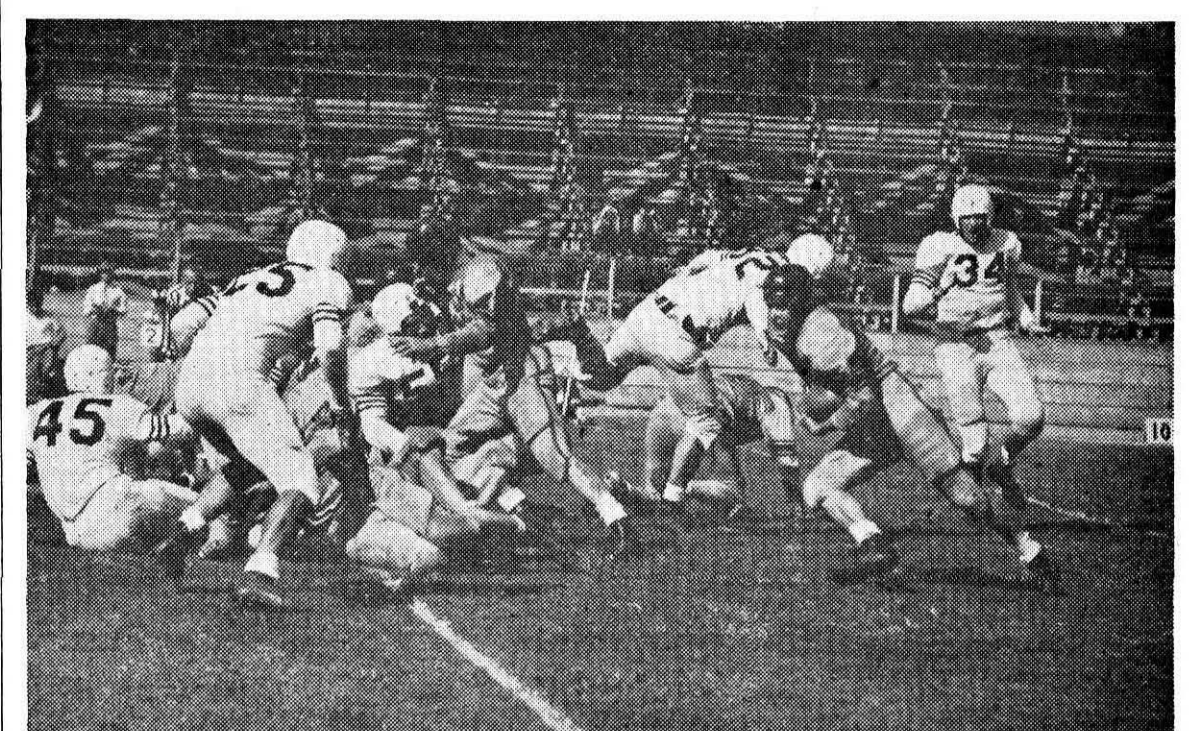
Interhouse bowlers, returning to the alleys this Monday for the first time since last spring, showed the effects of a long summer away from the sport. This practice session was put to good use by most of the keggers, as progressively increasing scores were the rule.

Apparently Dabney bowlers are already in top form and will be tough to beat as they were conspicuously absent from this meet. Other houses had nearly full to oversize squads, with a total of 34 bowlers present.

Top pre-season marks were fired by Woody Bratnober of Ricketts with a 213 game and 574 total; Roger Baier of Ricketts, 190-512; and Bob Benton of Throop, 191-506.

**CALTECH BARBERS**  
on California Near Lake

**BAKER DIGS OFF TACKLE**



Baker dashes around left end as Don Hibbard blocks out Parsons (55) of the Sagehens as Fortney (25) awaits the ball carrier. Engineers were shut out by powerful Pomona eleven Saturday 26-0.

**Schussing with the Shoose**

This last weekend the California Ski Association held its annual convention at the Huntington Hotel. There were two days of meetings and discussion and a big dinner-dance on Saturday evening. The most important single item of discussion was the matter of dues and the financial condition of the CSA in general. After heated discussion a new policy was adopted that includes: \$2 per year for all members (except) \$1 per year for college students, and 100 per cent membership required of all clubs.

**No Difficulty**  
The Tech ski club is avoiding any difficulties with the required 100% membership by including the \$1 in the regular club dues, and not increasing the dues over those of former years.

The new dues policy of the to run the Association this next year in a manner satisfactory to

the member clubs. No significant amount of trouble is expected from the member clubs regarding the new dues, as the Association is mainly responsible for present skiing conditions in the state.

It should be mentioned that the new title, "Far West Ski Association," was formally adopted so as to include Nevada and Hawaii.

The club dues for this next year will be \$3, which includes the (now) FWSA \$1 dues. We feel that this sum is indeed small, when our club and facilities are compared with others nearby. UCLA has substantially higher dues, and their club does not have any hut.

As stated last week we now have electricity installed. Also, there is the possibility of having running water in the hut by this winter (as yet problematical). There are eating and sleeping accommodations for fifty persons, and more have been squeezed in on special occasions.

**Help Needed**


This next weekend there is a working party that is going up to cut wood for the winter, finish the cleaning up started this summer, and complete a number of smaller jobs that should be done before the colder weather sets in. All persons interested in going up (the mountains are beautiful at this time of the year) should contact an officer of the club if possible, and they should definitely show up in the court between Fleming and Ricketts after lunch Friday noon. At this time transportation for the weekend will be arranged. That is tomorrow noon for the meeting and Saturday and Sunday for the trip up to the hut.

The Tech Ski Club is beginning an appeal this week for kitchen utensils (not china or silverware) and for chairs. Both items could be put to good use in the hut, and unless we can get some contributions from interested members, we shall have

**Ice Skating**  
Daily 2:30 to 5, 7:45 to 10:45  
Sat. & Sun. Morn. 10 to 12:30  
Skates for Rent  
Instructions  
**Pasadena Winter Gardens**  
171 South Arroyo Pkwy.

**YOUR COLLEGE SPORTS SHOP**  
Headquarters for Sporting Goods  
**WYNN MACE**  
Tennis Shop  
Phone SYcamore 6-5804  
912 EAST CALIFORNIA ST.  
Pasadena, Calif.

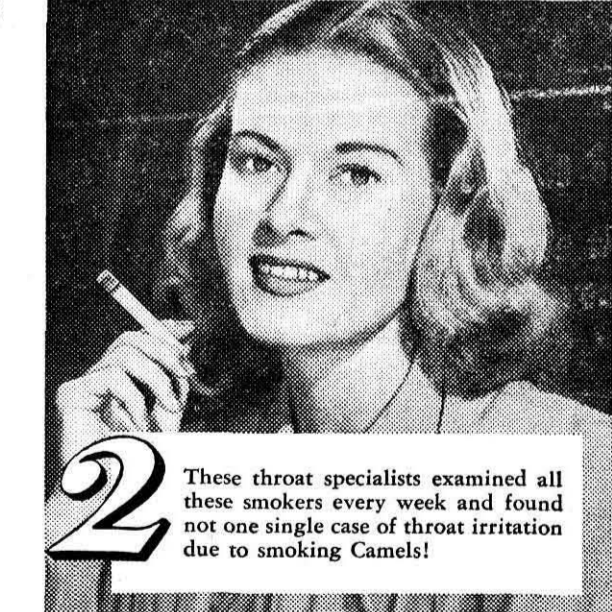
**Voget & Cathey**  
MEN'S CLOTHING  
FURNISHINGS  
Fridays till 9:30 p.m.  
459 East Colorado Street  
Sy. 2-3871 - Pasadena 1

Caltech Students Welcome at  
**Neighborhood Church**  
  
A Church of Liberal Religion  
225 West California Street  
SUNDAY WORSHIP 11 A.M.  
REV. CURTIS BEACH  
MINISTER

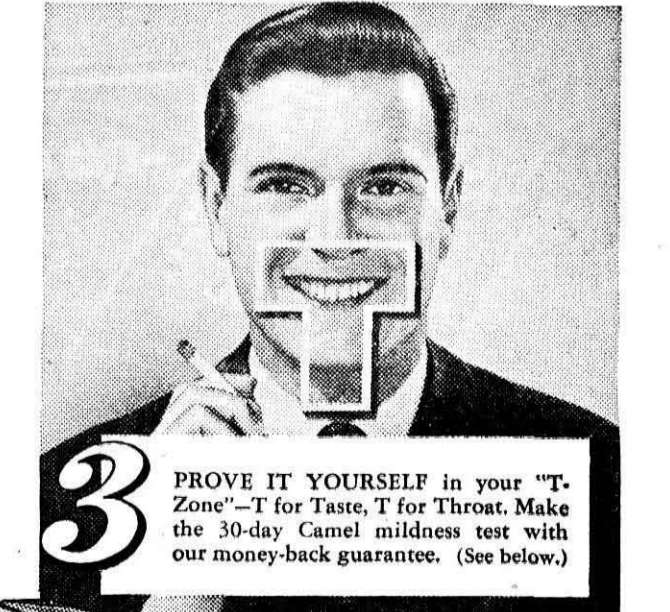
*Here's How Throat Specialists proved*  
**CAMEL MILDNESS**  
**IN DRAMATIC 30-DAY TEST!**



**1** In this test famous throat specialists examined the throats of hundreds of men and women from coast to coast who smoked Camels exclusively for 30 days—a total of 2470 thorough examinations.



**2** These throat specialists examined all these smokers every week and found not one single case of throat irritation due to smoking Camels!




**3** PROVE IT YOURSELF in your "T-Zone"—T for Taste, T for Throat. Make the 30-day Camel mildness test with our money-back guarantee. (See below.)

**THIS TEST REVEALED**  
**NOT ONE SINGLE CASE OF THROAT IRRITATION DUE TO SMOKING CAMELS!**

**Money-Back Guarantee!**  
**MAKE THE 30-DAY CAMEL TEST YOURSELF**

If, at any time during these 30 days, you are not convinced that Camels are the mildest cigarette you have ever smoked, return the package with the unused Camels and we will refund your full purchase price, plus postage. This offer is good for 90 days from this date.  
(Signed) R. J. Reynolds Tobacco Co., Winston-Salem, N. C.



According to a Nationwide survey:  
**MORE DOCTORS SMOKE CAMELS THAN ANY OTHER CIGARETTE**

Doctors smoke for pleasure, too! And when three leading independent research organizations asked 113,597 doctors what cigarette they smoked, the brand named most was Camel!

Talkin' It Over With The Goon

Well men, here it is only the third week of our happy new term and what was once a nice sweet lovable disposition has been transformed into one of the brittlest of brittle beaks.

Never have I seen less support for a football team than last Saturday at our opener with the Sagehens. It's not that far to Claremont. If there was a skirt on the other end of the line rather than a gutty bunch of pigskinners you could bet the turnout would have been 600 guys instead of the stalwart 200 that always makes it a point to give the school a hand, whether it be by cheering the athletic teams or going to the dances.

Heard one of the finest compliments about a Tech squad last Saturday. During half time the ref came over and said, "For a team that was supposed to be pushed all over Pomona, you men have the hardest fighting bunch of football players I've seen all year."

One of the better games turned in was by Bill Sylvies. For his first year of inter-collegiate competition, Bill played a cool driving game, many times making the crucial tackle when he was the only man between the up-

(Continued on Page 6)

Beavers Fall To Sagehens

There was no joy in Techville last Saturday evening as the battered Beavers returned from taking a 26-0 pounding at Pomona. Coach Mason Anderson had given us fair warning, the Sagehens were big, tough, and numerous; all we can say is that he was right.

Early Score

Pomona took the opening kickoff and marched 55 yards in 10 plays, with John McColl scoring the first touchdown. Then the Beavers tightened up, and while they couldn't get into scoring territory themselves, they kept the Sagehens outside the Tech 20 yard line for the rest of the first half.

Substitutions

In the third quarter, however, the roof fell in as Pomona continued to use mass substitutions and by sheer weight of numbers pushed over two more touchdowns, McColl and Colbath scoring. Tech ends, Don Hibbard and Odell Carson, gave some encouragement to the fans with their inspired defensive play, rushing and trapping the Pomona passers.

Pass Defense

The final quarter was played on the Tech half of the field again, with the Engineers never penetrating beyond the Pomona 40 yard line. It was during this period that the Beavers showed that they, like the US Marines, are always outnumbered, but never outfought. They dug fox-holes and held the Claremont comets for 4 downs inside the Tech 4 yard line.

(Continued on Page 6)

Beaver Sports

New Soccer Team To Face USC

The soccer season will be officially opened for the Beavers on Saturday morning at 10:30, on the Tournament Park turf, facing the University of Southern California. Since this club romped to a 3-0 shutout upset against U.C.L.A., the Caltech team will go in the way they have always done—as underdogs.

Institute Support

The Athletic Office has been principally responsible for the return of the popular sport; Hal Musselman and Coach Nerrie deserve credit for their assistance. Mr. Nash of the L. A. Amateur Soccer League has volunteered his organization's assistance in arranging games and other necessity which the club will need.

Practice in Swing

The Soccer Squad is now in training for their first game, practice is held on the North Field at 4:15 every afternoon. In need of men who will follow the training and report regularly, the Caltech coach will welcome

(Continued on Page 6)

Frosh Sports Roundup By Leon Michaelson

Deep in the third week of practice, the Beaver Babes are shaping into promising football men. Luck has thus far been with Coach Preisler, in that injuries have been at a minimum and high spirited scrimmages have been generally free from mishaps.

This coming Saturday holds much for the Frosh squad when they meet Whittier here on Pad-dock Field at 2:15 p.m. Last year Whittier was a predominating factor in league competition, and is expected to be by no means a pushover this year.

Lineup

Ed Preisler has given us a tentative starting lineup—tentative in the sense that it is too early in the season to settle on definite positions. The lineup is: Michaelson . . . LER. Cooke or Wise Destabelle . . . LTR. Cooke or Wise Peck . . . LGR. . . . Fuller C. . . . Lamar . . . . Hanna or QB Smith FB. . . . Woody Karasawa . . . HB. . . . Patapoff

All members of the team are destined to see lots of action. At ends we see Belman, Erwin, Gaines, Key, and Petters. At tackles, Bartlett, Earnest, Marshall, Meggs, and Middlebrook. At guard positions, Cagle, Cas-

(Continued on Page 6)

Favored Poets Hosts To Beaver Eleven

Anderson's Squad Travels to Whittier for Second League Tilt

Again resuming the role of a decided underdog, the Engineers travel to Whittier to face a powerful Poet team. The Poets have not had too impressive a record during their non-conference tilts, being dumped by Santa Barbara and San Francisco State. However, they have shown decided strength in their running attack at times, with backs Tucker and Reed leading the show.

Interhouse Crosscountry Next Tuesday

After warming up for the past two weeks, the Tech cross country men will soon be at each other's throats, when the 1 1/2 mile run this Tuesday opens the Interhouse cross country competition. A large turnout is expected for the Interhouse meets, with eight Frosh, and sixteen Varsity spikesters eligible.

Intercollegiate

As for intercollegiate competition, relatively little is known. Redlands is expected to be as strong as ever, while strong competition is expected from Oxy, Pomona, and Whittier. Redlands won the conference last year, with Caltech a strong second.

Varsity Strong

According to Coach Carroll, Tech has a good chance of knocking Redlands out of the top spot this year. Most of last year's lettermen are back, while the team is further bolstered by last year's conference champion Frosh team.

The Frosh are also expected to have a strong team this year, with three men who have run better than five minute miles.

Roster

The roster of men out for Varsity cross country this year is as follows:

J. Abell, W. Basham, R. Bowerman, D. Brown, R. Cobb, F. Corbato, R. Cornelius, W. Edwards, B. Houser, R. Kurland, W. Lansdown, D. Peterson, W.

(Continued on Page 6)

While the Poets will try to put on a real offensive game, the Beavers will depend on defensive play, hoping for the breaks to put them in scoring territory. Last week, a few breaks might have given them an opportunity to register a goal, one break which the Engineers received last week was no injuries. A definite relief to a squad which has suffered serious personal losses, about every time anyone threw a block.

While the outlook for the game is not bright on the Tech campus, everyone will see a real fighting, spirited ballclub take the field. In their last two encounters, the Beavers have taken a shellacking, but have drawn considerable admiration from the fans for their gameness.

Bass and Hibbard to Start

The Beavers will take the field led by Tex Bass and Don Hibbard, who should be well on their way to All-Conference slots again this year. They will receive strong support from huskies as Long, Marks, Darms, Carson, Blom, and Berner who all played good ball against the Sagehens. In the backfield Funk and Baker will handle the ball carrying end with the aid of Bill Sylvies. High hopes are held that Chucker Norman may fill the other spot; news which should really build up local hopes. The starting team should show quite a bit of strength during the first half, but lack of depth will tell in the final minutes.

Everyone in the conference is loaded with material and experience, everyone but Caltech. But moreover, the Beaver club is packed full of spirit and fight and are a "tough outfit" as one opposing coach commented just recently.

Let's have a big crowd and fill up the stands Saturday and give

(Continued on Page 6)

DU PONT Digest For Students of Science and Engineering

From tire cords to football pants

Do you know about nylon's other lives?

Here's a surprise for those who think of nylon mainly in terms of stockings and lingerie.

Nowadays, nylon fibers—twice as strong and half as heavy as the same size aluminum wire—are doing a variety of jobs, better than any previously known fiber. Off Labrador, men are harpooning whales with nylon lines. In a New England textile mill, abrasion-resistant nylon ropes now drive big "mule spinners" for periods ten times as long as other commercial materials, without a breakdown.

In its plastic form, nylon is used to make everything from unbreakable dishes to hypodermic needles. As a monofilament, it goes into a variety



Nylon cords give giant truck and airplane tires the strength and elasticity to absorb tremendous impact shock without bruising.



Water won't hurt the nylon strings of this racquet. They resist breakage over an extended period of time. No tiny strands to fray.



Nylon football uniforms, as worn by Bobby Jack Stuart, Army back, are not only tough wearing, but much lighter and quicker drying.



Nylon research: O. C. Wetmore, Ph. D. Phys: Ch., New York U. '44; D. A. Smith, B. S. Mech. Eng., Purdue '40; C. O. King, Sc. D.-Ch. E., Mich. '43, charging experimental condensation polymers to a spinning machine.

of products from brush bristles to surgical sutures.

Nylon owes its origin to a Du Pont fundamental research project begun in 1928. A group of scientists set out to find out how and why the molecules of certain substances polymerized to form giant chainlike molecules. Hope of obtaining a new commercial fiber was first aroused when, two years later, a polymer was developed which could be drawn out into a thin strand, like taffy candy.

Research—a Major Du Pont Activity

Nylon is an excellent example of modern research at work at Du Pont. Young scientists joining the organization now may share in other discoveries of outstanding importance. They may find opportunities in such challenging fields as finishes, coated fabrics and various fibers; synthetic organic chemicals, including fine chemicals; synthetic rubber; electro and agricultural chemicals; plastics; pigments and photographic film; and high pressure synthesis.

Each of ten manufacturing departments of Du Pont has its own staff and is operated much like a separate company. Within each, research men work in groups small enough to bring quick recognition of individual talent and capabilities.

Year after year, young, inquiring minds come from leading U.S. schools of science and engineering to Du Pont—where individual ambition is matched with opportunity, cooperation and the type of friendly support that brings out the best in each person.



BETTER THINGS FOR BETTER LIVING . . . THROUGH CHEMISTRY

More facts about Du Pont—Listen to "Cavalcade of America" Monday Nights, NBC Coast to Coast

You'll want to read this free booklet

"Du Pont Company and the College Graduate" is just off the press in a completely revised edition. Fully illustrated—describes opportunities in research, production, sales, and many other fields. Explains the plan of organization whereby individual ability is recognized and rewarded. Write for your copy today. Address: 2521 Nemours Building, Wilmington 98, Del.

Table with columns: GAME, ATHLETIC DEPARTMENT, COACH, SPORTS STAFF. Lists various teams and their coaches/staff members.

ADVICE TO FRESHMAN From your Arrow dealer. Arrow Shirts—Whites, stripes, solid colors. Arrow Ties—Knits, stripes, foulards, plaids. Arrow Sports Shirts—Outstanding assortment for Fall. Arrow Underwear—Shorts with grippers. Undershirts. Ask us for "ARROW"—bet on the best! The buy-word of college men from Yale to U.C.L.A. from Northwestern to Tulane. ARROW SHIRTS HOTELING'S TWO STORES 54 E. COLORADO ST. 921 E. COLORADO ST.

**ALUMNI PLACEMENT**

(Continued from Page 1)  
during which time the bank made loans for production of war materials totaling an aggregate of 4 million dollars. Now he is engaged in the lending activities of the bank in the industrial area of Los Angeles, is also a member of the Research Committee of the Los Angeles Chamber of Commerce, and is Western director of Robert Morris—a national organization of bank loan officers and associates. All these positions have given him an intimate contact with the industrial life and activities of Los Angeles, putting him in the position to make helpful comments on both large and small phases of industry.

The discussion will be concluded about 5:30 p.m. to enable Ricketts House to host Mr. Johnson at the evening meal. This will offer those who were unable to attend a chance to meet the speaker.

**"Black Gold" Next**

The speaker for October 27 has not yet been announced, but the subject is to be the Petroleum Industry. All engineers should be interested in this talk, since the oil companies are hiring all kinds of engineers at very decent wages. Unless otherwise noted in next week's Tech, the time and place will be the same as on the 20th.

Somewhere else in the Tech is the calendar of speeches which will follow these two. Thus a student can make plans to hear all those which interest him, including the one on the all important summer job situation, which, appropriately enough, is last on the list, but early enough to help in securing employment for the "vacation" months.

**Placement Lecture Series Program**

- 20 October Discussion of Opportunities in Large and Small Industries and Government
- 27 October Petroleum Industry
- 3 November Business Management
- 10 November Aeronautics
- 17 November Industrial Research
- 1 December Construction
- 8 December Sales
- 19 January The Problem of Looking for a Job
- 26 January Production and Manufacturing
- 2 February Design Engineering
- 9 February Non-Technical Requirements for Success
- 16 February Teaching
- 23 February Summer Jobs

**FROSH SPORTS ROUNDUP**

(Continued from Page 5)  
sidy, Dickinson, Katz, and Laff. At center, Garofola. Halfbacks, Davis, Fisher, Keir, Palloko, and Paulson. At fullback, Keepes and Jones. At quarterback, Kramer, and Webber. With power backed with power, "Watch out, Whittier!"

With an offense sparked by a passing attack, we're bound to see a colorful beginning to the Frosh '48-'49 football season.

**Water Polo**

The Frosh water polo team at the present time is working out with the varsity mermen. A sincere request for all men interested in swimming has been issued to fill an under-manned Frosh water polo team.

At present we've seen several promising Freshmen. Pete Yeazell, Henry Keswick, Dave Koons

and Jess Weil are among those playing for the li'l Tech's. Games are to be sought with Oxy, UCLA, Loyola, and various J.C.s, depending largely on the Frosh turnout in the future.

But for now, we'll see you all at the debut of '52 classmen against Whittier this Saturday afternoon on the Paddock Field gridiron.

**NEW SOCCER TEAM**

(Continued from Page 5)  
newcomers and veterans alike. For further inducement, letters will be given to men who have qualified with enough playing time at the end of the season. Everyone's got a chance, very few experienced players such as Bennet, Houser, Madden, and Crighton are out; most slots will be filled by newcomers to the game.

**Fleming Retains Discobolus In Volleyball Game**

The term's first Discobolus contest last Thursday saw the Fleming volleyball team victors in a match with the challenging Blacker team. Two games were played resulting in scores of 15-11 and 15-4, and insuring the continued stay of the Discobolus on the Fleming mantel.

**SCHUSSING**

(Continued from Page 4)  
to deplete our treasury. So, please, if you know where a serviceable chair or some pots and pans are available, kindly let us know. We already have a beautiful new davenport to set in front of the fireplace.

In case you haven't joined the club yet, you can see the Shoose in Fleming, Blouke Carus in Ricketts, Jim Blom in Dabney, and Fred Drury in Blacker.

**HELP TO STUDENTS**

(Continued from Page 3)  
are having trouble with. From the number of cards on file Wes can pick out someone who is able to give you help at hours which are convenient to you.

**They Suffered Too**

Frosh are advised to take advantage of this offer before midterms roll around. This way you can obtain help from someone who has beat his way through the course already.

**BEAVERS FALL**

(Continued from Page 5)  
ers was responsible for th final tally, as Gschwind's pass to Burke was batted around the Tech secondary by two Hens.

**Bass Punts**

Manuel Bass did all the Tech punting, with 9 kicks and a 30 yard average per kick. In the fourth quarter Manuel punted 40 yards out of bounds on the Pomona 4 yard line. Chuck Norman returned to the lineup to help Bob Funk with the passing chores, and Tech's aerial attack should improve with the season.

Lineups:		CALTECH	
POMONA		Carson	
McFate	LE	Bass	
Macmillan	LT	Blom	
Lang	LB	Marks	
Chandler	C	Biom	
Ward	RG	Darms	
Farrand	RT	Long	
Chandler	RE	Hibbard	
McColl	QB	Schofield	
Keogh	RH	Baker	
Herbener	LH	Funk	
Colbath	F	Lewis	
SCORE			
Caltech		0	0
Pomona		7	0

**CROSS COUNTRY**

(Continued from Page 5)

Sampson, J. M. Sellen, G. Shakespeare, R. Smyth, C. Steese, M. Walt, C. Anderson, J. Scantlin, L. Nobles, J. Montgomery, B. Cox, P. L. Armstrong, J. Walter, A. Beek, G. Sawyer, D. Asquith, B. Calhoun, H. Kamei, R. Lovberg, D. Oakley, W. Bradley, D. Madden, J. Brody, D. Neverman, and M. Carus.

The Frosh team includes: R. Connor, W. Pilkington, D. Kahrs, S. Butler, R. White, J. La Fleur, S. Rawn, B. Averie, and B. Parnes.

**TALKIN' IT OVER**

(Continued from Page 5)  
rights and a Pomona ball packer. If the kid only weighed about fifty more pounds he'd make an all-conference for sure. A big hand should also go to Don Baker who finished out the game with a cut up face that looked like one of the Sagehens had sharpened his claws.

Just got to take a stray honk at another Pomona alum, yes, you guessed it, my old pal Brave "Hen Head" Dyer. How can any man who calls himself a sportswriter cry for more subsidations for west coast football players out of one side of his mouth while condemning the east for "professionalism" in collegiate football and whistle "Fight on for Old SC"—all at the same time. Some one ought to get his story straight.

See ALL of you men out at the Whittier game Saturday night. It will be a winner if enough of us turn out to spark the team with a lot of fight and chatter coming from the stands.

**FAVORED POETS HOSTS**

(Continued from Page 5)  
the club plenty of support. Game time 8:00, Saturday at Whittier. Everyone goes to this game.

Whittier		Caltech	
Ryerson	LE	Hibbard	
Murdy	LT	Bass	
McKinney	LG	Marks	
Axelson	C	Blom	
Payne	RG	Darms	
Marrs	RT	Long	
Kulzer	RE	Carson	
Tucker	QB	Funk	
Feary	LH	Baker	
Beckner	RH	Sylvies	
Reed	FB	Norman	

**OAK KNOLL**  
Cleaners and Laundry

**BERLOU**  
MOTHSPRAY protects me for 5 YEARS!



LET A VET SERVE YOU

**THREE DAY CLEANING SERVICE**

FOUR-DAY LAUNDRY

902 East California Street  
(4 Doors East of Lake)  
SYcamore 3-6704

Next Door to Caltech Barber Shop

**"Between takes of my new picture, THE LUCK OF THE IRISH, I enjoyed many CHESTERFIELDS. They're Milder... It's MY cigarette."**

*Tyrone Power*

STARRING IN  
**THE LUCK OF THE IRISH**  
A 20TH CENTURY-FOX PRODUCTION



*Kay Irene Johnson ABC GIRL of Ohio State says—*  
**"I smoke Chesterfields because they have a fine taste all their own and stay really MILD from one end to the other."**

**MORE COLLEGE STUDENTS SMOKE CHESTERFIELDS than any other Cigarette... BY LATEST NATIONAL SURVEY**

**Always Buy CHESTERFIELD**

**MAKE YOURS THE Milder CIGARETTE... They Satisfy**

