

Charities Drive November 7-11

In a change of policy toward campus charity drives, the ASCIT has this year inaugurated the Consolidated Charities Drive, combining the separate fund raising campaigns of the World Student Service Fund, the March of Dimes, and the Pasadena-Altaadena Community Chest.

Less Confusion

Initiated after many years of student complaints and administrative confusion and inefficiency, the drive is designed to reduce wear on frayed wallets and to reduce unnecessary paper work.

During the drive week, solicitors will call on each student to fill out a pledge card, specifying the amount he wishes to contribute to each charity. The total amount may then be paid to the solicitor, or charged to the January Institute bill.

YMCA Drive

There will be no other personal solicitation for off-campus charities this year. In February, the annual YMCA drive will be conducted as usual. It is felt by the Board of Directors that the activities of the YMCA are of direct interest to the students, and should thus be allowed to carry on its own fund raising campaign.

Experiment

The new Consolidated Drive is an experiment. The permanence of this new policy will be determined to a considerable degree by its success. It is anticipated that this new plan should be popular with students, and an expression of this will be its wholehearted support.

Grants Offered For Foreign Study

Announcement has recently been made by the Department of State and the President's Board of Foreign Scholarships of the opening of competitions for U.S. Government awards for graduate study in the United Kingdom, Belgium, Burma, Netherlands, Philippines, Greece, New Zealand, France, Italy, Iran and Norway for the academic year 1950-51.

Scholarships

The scholarships offered to American graduate students are made available as a result of the Fulbright Act. This is the second year in which American graduate students will have the opportunity of competing for these awards which provide travel, tuition and maintenance for study abroad during one academic year.

Requirements

The basic eligibility requirements are:

1. American citizenship
2. A college degree or its equivalent by the time the candidate takes up his award.
3. Knowledge of the language of the country sufficient to carry on his studies abroad.

Interested applicants who are presently enrolled at the California Institute may obtain information and application forms from the graduate office, 104 Astrophysics.

Campus Calendar

THURSDAY, NOVEMBER 3
12:00 Throop Club Meeting
12:00 Y Upperclass Lunch Club
4:00 Math Club Meeting, 22 Gates
7:15 ASCIT Board of Directors Meeting in Lower Fleming
7:45 Dancing Class in Culbertson
FRIDAY, NOVEMBER 4
11:00 Basketball Meeting, 206 Dabney Lounge
4:30 Cross Country—Caltech vs. Whittier and Oxy, Tournament Park
Decoration for Interhouse
SATURDAY, NOVEMBER 5
Interhouse Dance
SUNDAY, NOVEMBER 6
7:30 Caltech Musicale in Dabney Lounge
7:15 Film Classic Series in Culbertson
MONDAY, NOVEMBER 7
Beginning of Combined Charity Drive
7:15 Film Classic Series in Culbertson
TUESDAY, NOVEMBER 8
12:00 Y Frosh Lunch Club
Mudeo
7:15 Alumni Placement Talk, Dabney House
WEDNESDAY, NOVEMBER 9
7:30 Orchestra Rehearsal in Culbertson
9:00 Glee Club in Throop Club

Muddy Event Looms Near

Once again the Sophs and Frosh are about ready to assume the role of mud turtles. The annual mud spree known as the Mudeo, to be held in Tournament Park on Tuesday, Nov. 8, promises to be a real debacle for those sweet young innocents of the class of '53.

Events

Amid cries of "Mire all Frosh!" the Sophs have amassed an impressive team for the following events:

Tug-o-war
Tire spree
Sack race
Wheelbarrow race
"Mudeo" (Tire spree)

Time was when the mudeo included the pole climb and other such events. Today's form, while a little milder, is a real show, long to be remembered by all who participate including those Juniors who are bold enough to act as judges (and a few others). Twice in the history of the school the Freshmen have won the mudeo.

The outcome of the mudeo determines who foots the bill for the annual Frosh-Soph dance to be held Nov. 18 in Dabney Hall Lounge and Garden.

Instituters Going Full Steam Ahead

The Caltech Instituters, having successfully embarked on their program of service to the school, are ready with their enlarged membership to broaden the scope of their activities and to plan ahead their work for the year.

Committee Meeting

The Instituters' executive committee will meet tomorrow at 11:00 in Room 46, Ricketts, to consider possible projects for the future. If anyone has any ideas he would like to discuss with the committee, he is welcome to drop in on the meeting.

Projects now in progress include the construction of a permanent framework for rally signs, the making of signs for the Consolidated Charities Drive, and the handling of the ASCIT dance decorations.

Spotters

We appreciate the time put in by Fleming Instituters John Morrison, John Gee, Fred Eisen and John Johnston last Saturday, when they acted as spotters for the cross-country meet. Our thanks also to Jim Kliegel and Larry Starr for making the big "Beat Oxy" sign for the Pajamarino.

Smog Problems To Be Discussed

Nationwide scientific activity in all phases of air pollution investigation will be covered in general sessions of the first National Air Pollution Symposium to be held November 10 and 11 at the Huntington Hotel, Pasadena, California.

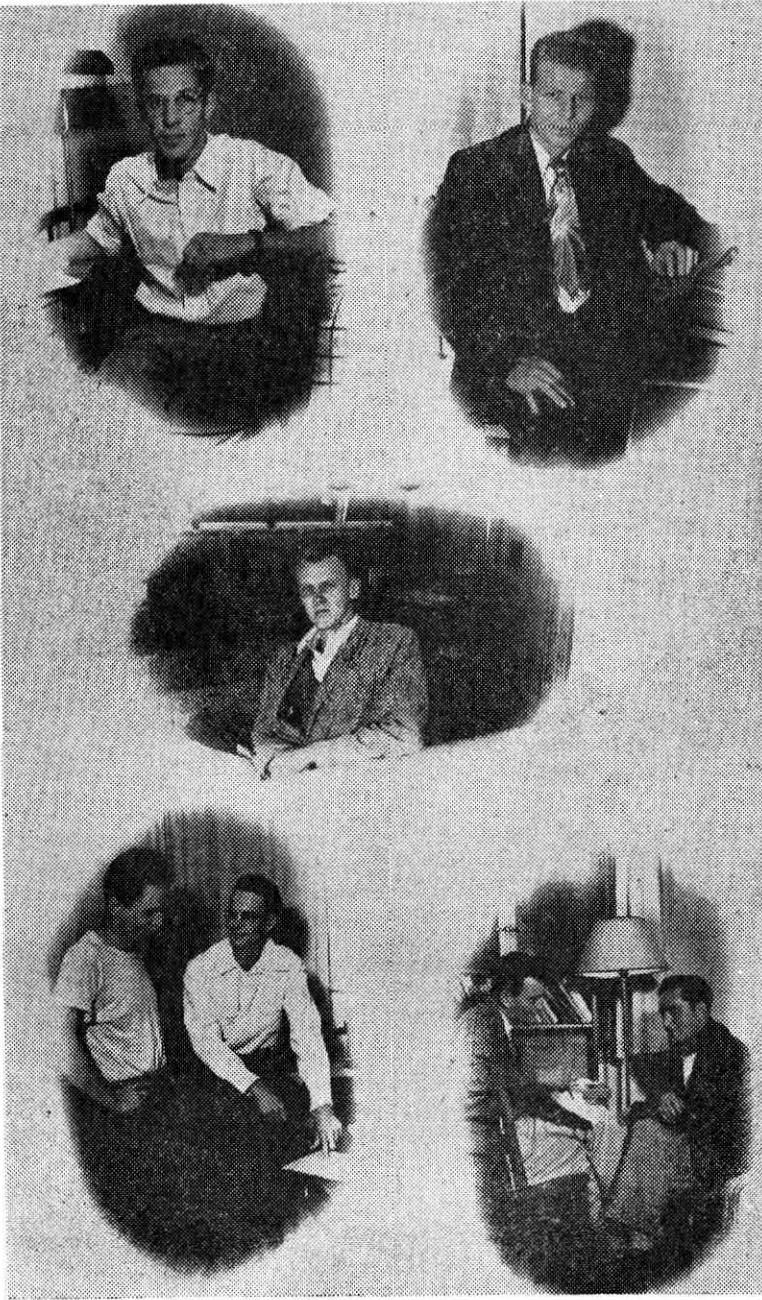
Leading authorities on the instrumentation of air contamination research, the control of airborne matter, meteorological aspects of smog formation and the effects of polluted air on man, animals and plants will discuss scientific progress toward the solution of the growing smog problem in many industrial areas of the country.

Dr. F. W. Went, director of the Earhart Plant Research Laboratory at Caltech, will be among the prominent speakers at the conference. Dr. Went will discuss "The General Problem of Air Pollution and Plants."

ASCE Lecture

Of considerable interest to engineers and scientists alike will be Monday's ASCE speaker, Mr. Derby of the Bureau of Power and Water, who will discuss "Treatment of Water Containing Radioactive Wastes."

SOCIAL WHEELS OF HOUSES, THROOP



The five house social chairmen pictured above have been occupied lately with many varied problems as they prepare for the annual Interhouse Dance next Saturday. At the top: Fernando Corbato (Dabney) and Norm Schroeder (Ricketts); center: Lowell Cocker (Throop); bottom: Myron Arcand and Floyd Humphries (Blacker) and Bud Klarfeld and Ed Matzner (Fleming).

Houses Unite In Charting Annual Fall Merrymaking

Unique Themes For Decorations, Five Bands, Refreshments Promised

Members of the four student houses and Throop Club are working feverishly to complete plans and decorations for the annual Interhouse dance to be held Saturday from 9 p.m. to 1 a.m. They are combining their efforts to give Tech men and their dates four hours of dancing in superbly decorated lounges to the music of five different dance bands.

Tech Whips Up 7600 Mph Gust

A speed of more than ten times the velocity of sound has been attained for the first time in a new hypersonic wind tunnel at the California Institute of Technology, it has been announced by the Institute and the Army Ordnance Department, for whom the tunnel was designed and built. Previous highest known speed of air flow in supersonic wind tunnels was about seven times the speed of sound. Thus, in the new tunnel at Caltech, for the first time man has an apparatus that will allow him to make tunnel tests at speeds well above those of our most advanced rockets and missiles.

Ordnance Contract

Dr. Clark B. Millikan, Director of the Guggenheim Aeronautical Laboratory at Caltech, said the tunnel will be operated under Ordnance Department contract and will be used to obtain basic information about the design, performance, and instrumentation of tunnels for hypersonic speeds. Basic experimental data on shockwaves, boundary layers, and the flow past models at hypersonic speeds will also be obtained. Information regarding these problems is needed to design and build future rockets and missiles.

Tremendous Pressures

The test section, in which models of missiles are mounted, is 5 by 5 inches, although the entire test section stretches to an over-all length of four feet. To

(Continued on Page 4)

Alumni Talk On Industry Federal Job Talks Mapped

Representatives from the Navy Department Joint Board of Civil Service Examiners and the Naval Ordnance Test Station, Pasadena Annex, will be on campus Wednesday, November 9, 1949 at 4:30 p.m. in 206 Dabney Hall of the Humanities, to publicize Civil Service Examinations for Junior Scientists and Engineers for the Federal Service, \$2498.00 per annum through \$3727.00 per annum.

The occupational fields covered are Chemistry, Metallurgy, Physics, and Engineering (various options)—Place of Employment—State of California, Nevada, and Arizona.

Federal Work

An informal group discussion by Mr. C. A. Weber and Mr. Gerald Foster will explain in general terms the requirements of the examination, method of filing, type of research and development work in Federal Agencies and any other material which may be of interest to the students.

This year's examination covers undergraduate students as well as graduate and it is possible for students who have completed two or three years of academic study toward the BS degree to take the examination for summer employment in Federal Activity. In other words, applications will be accepted from all students who are otherwise qualified and who expect to complete their courses required for second, third or fourth collegiate years, or for the MS degree, by June 30, 1950. Application card 5000 AB may be obtained from the Placement Office at Caltech.

Math Group Plans Initial Assembly

All Caltech undergraduates who have interests along the lines of math are invited to attend the first Math Club meeting of the school year, which will be held this afternoon at 4:00 p.m. in 22 Gates.

The slate will be open for any "pet topics" which anyone may wish to present or have presented. If anyone is interested but unable to attend this meeting, drop a note in Stan Zwick's box in lower Throop or see Dr. Bohnenblust in Astro (Robinson) and your name will be added to the membership list.

Tanham Interviewed

By Larry Starr

Seeing George Tanham, Master of Student Houses, ditching a history class to get a cup of coffee at Greasy, I decided to corner him and get his first impressions of the men in the student houses. Mr. Tanham seemed to think that history class was as good a time as any to grant an interview, so we talked over coffee and cookies.

The first question I asked Mr. Tanham was, "How do the rules of our student houses compare with the rules in student houses on other campuses?" He answered, "Compared with schools I've known, Caltech has a liberal set of student house rules. The rules here are those of courtesy."

Mr. Tanham went on to point out that the house rules had been drawn up by the students, not by the faculty, and that it was up to the students to enforce these rules. "The Resident Associates," he said, "are in the houses to guide the students

rather than enforce the rules. As long as the students are aware of their responsibilities the rules will remain as they are. It is the individual house member who makes or breaks the honor system in the houses."

When I asked Mr. Tanham about possible improvements in the house system, he put down his cup of coffee and started munching on a cookie while he thought. He then said that the house should insist on more participation on the part of its members in extra-curricular activities. Mr. Tanham was also disgruntled with the students' lack of pride in the appearance of the house lounges.

I asked Mr. Tanham what he thought of the capability of the present house officers and he said, "I think the students did a good job in choosing their house officers for this year."

After talking with him for a while it became apparent that he thought the student government was one of the unexcelled features of the houses. All through our conversation Mr. Tanham stressed the training a student gets by joining in the house government and functions. Speaking about the benefits of residing in a student house, Mr. Tanham said, "I feel that living in the student houses is excellent training for life in a democratic society and conducive to a well rounded and constructive citizenship."

Janssens Enters Frosh Presidency

Tom Janssens, former vice-president of the Freshman class, this week took over the duties of president. Janssens will hold the post vacated by president Manuel Silva for the rest of the first term, since Silva has transferred to U.C.L.A. to take up education. Both officers were appointed by the A.S.C.I.T. Board at the Frosh Camp.

Occidental Dunks Beaver Aqua Polo Squad, 7-2

The Occidental mermen halted Caltech's winning streak at two games as they dunked the Beavers by a score of 7-2 in Tuesday's game. This was a bitter pill for the Engineers to swallow as they had been gunning for a victory over the Tigers since the beginning of practice.

Tight Half

The first half the teams seemed evenly matched and the outcome was in doubt, as the half-time score stood at 3-2, Oxy. Both teams looked sharp with good passes and excellent guarding.

No Points

The story was different in the second half. The Beavers seemed unable to stay organized, or to keep possession of the ball, whereas Oxy continued its even play. The Tigers scored four points in this half while holding the Engineers scoreless.

Compton Sunk

Last Friday the Beaver tanksters sank a spirited Compton seven by a lopsided score of 8-1 in the P.C.C. pool. The Compton mermen, having come with a poor opinion of Caltech aquatic prowess, were forced to reconsider as the Engineers proceeded to bombard the Compton goal for four points in the opening quarter while holding Compton scoreless.

SPEAKIN' SPORTS

with Mike

A top secret communique from France gives us reason to believe that the Goon is creating a bit of havoc in French basketball annals. As unofficial as the data may be, we may be somewhat certain that Paul Saltman is blazing a starry trail to high hoop fame. All hail, graduate Goon!

Tears

Wringing out my tear-drenched beach towel filled in last Friday's Oxy encounter, I find many and more excuses for the Beaver eleven's sad defeat.

We could again point proudly to the statistics and mutter something like "We out-played them." Mr. Queensberry and his narrow-minded bunch of followers, however, seem to think that the scoreboard is the final analysis of victory. I am afraid I must concede his point.

Play Football?

On the basis of the games-won-to-games-lost ratio, we may join the "Why play football?" school. But it's more than that. Keeping flag-waving at a minimum, we can still maintain that we need a football team. For the greater part of us it can be said

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Beaver Sports

Tech Outruns S.B. Harriers; Oxy, Whittier Meet Friday

Coming back strong after a poor showing against P.C.C., the Caltech cross-country team overtook the Santa Barbara runners, 22-35, last Saturday at Tournament Park. It is said that this defeat took all the joy out of the Santa Barbara football win over the Cal Aggies later the same day.

Run so early in the morning that few spectators were up, the meet, under a hot sun, saw a well bunched Caltech team display some of the strength that made them conference champs last year. Our team took first, second, fifth, sixth, eighth, and ninth to out class Santa Barbara in the three-mile run. Final places were: 1—Mason, CT; 2—Pilkington, CT; 3—Houtz, SB; 4—Crie, SB; 5—Houser, CT; 6—Cobb, CT; 7—SB; 8—Sellen, CT; 9—Dickinson, CT.

Conference Meet

Tomorrow the first conference run will be held as Caltech

plays host to Whittier and Oxy at Tournament Park. In addition to the Varsity meet of three miles, a promising Frosh team will compete over the two-mile course. Inasmuch as the Frosh team determines in a large part our potentialities for next year, this meet will be of considerable interest to those who would rather win meets than build character. Time is 4:30, so those of you who can spare the time should wander over to the Park and witness someone suffering more than you.

Hoopmen Begin Initial Practice

Basketball is in the air again. Tech men seem to have a great deal of enthusiasm and anticipation for the coming season. The turnout is expected to please both Varsity Coach Shy and Frosh Coach Preisler, both of who look forward to the coming year with great plans and much optimism.

Organization Meeting

All men planning to go out for basketball, both Varsity and Frosh, are requested by Coach Musselman to attend a Basketball Meeting tomorrow, Friday, 11 a.m. in 206 Dabney for preliminary instructions. Anyone at all interested in joining the squad is also encouraged to attend this meeting.

The Varsity squad will start its practice sessions next Monday, November 7, at the Armory. Frosh practice will not start till after the interhouse basketball season is over. Their first practice will be held November 16 at the McKinley High School.

First Game

The Beaver Bucketeers will battle in their first contest this year against Los Angeles State College on November 22. Other games this quarter include Chapman, P.C.C., and LaVerne. Tech will start the S.C.I.C. competition next quarter at Redlands on January 7.

Fortunately we have abandoned the Armory for home contests and all our home games are scheduled to be played at the new P.C.C. gym and, what's more, two of these home games will be double headers with Oxy acting as co-host. A good

(Continued on Page 4)

Tigers Victorious; Beavers Lose 42-7

Tech Gridmen Cop Statistics As Oxy Scores Via Engineer Botches

Although the Beavers went out with high hopes and good intentions Saturday night, they were their own undoing. It wasn't spectacular play by the Tigers so much as spectacular Engineer mistakes that ran up those 42 points to our 7.

As in the Pomona game two weeks before, our offensive made more points for the opposition than for the home team. If we could erase three fumbles and two pass interceptions from the record and the points scored as a result of these mistakes, it wouldn't look like we'd been clobbered so badly.

First Blood

Well, gang, this week I guess we'll change the pattern of things a little, and not mention anything about the 53-0 loss of the Frosh football squad at the hands of Oxy. I would, however, like to give all the fellas a pat on the shoulder pads for a good hard game and their never-give-up spirit. As long as a team has this spirit they are playing successful ball.

Polomen

To get back to what I started to write about, namely Frosh water polo, it seems that in this department the Class of '53 is doing somewhat better. The squad coached by Bill Palmer and managed by Ron Quant has chalked up its first victory against the Muir team by a 2-1 margin.

Standout in the game was Alan Haire, sprint, who put in both the Caltech tallies, the first being set up by forward Bob Lynam in the second quarter and the second by center back Jim Wyman in the third frame. The rest of the squad includes goalie Morgan Ogilvie, forward Frank Connor, guards Larry Starr and Leon Vickman and sub Ted Harrison.

Plaudits to Duane Marshall, who has so far swept the interhouse cross-country runs. We saw Duane cross the finish line week, leaving his competitors far behind. Nice goin', Duane!

Stone Paces Rowdies Bowling

Ricketts surged back into first place in the Interhouse Bowling League by taking a clean sweep of all of its eight games Monday. Dabney moved up to a tie for fourth spot by winning four games, while Blacker and Throop won three, and Fleming took two.

Ricketts team Two continued its hot streak by piling up an enormous series of 2182 pins, including a 752 single game.

Standings after four weeks:

House	Won	Lost	Pct.	Avg.
Ricketts	23	9	.719	145
Throop	20	12	.625	140
Fleming	14	18	.438	130
Blacker	11 1/2	20 1/2	.359	127
Dabney	11 1/2	20 1/2	.359	120

Ralph Stone of Ricketts walked off with all individual honors this week by plastering the pins for a big 193 mark, then following through with a pair of 168 tallies for top series of 529.

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Tech made its way into Oxy territory twice during the first half, but was unable to make it to paydirt either time. The second drive featured Karasawa's 37 yard pass to Baker as the team got to the 22, was forced back to the 30, then lost the ball on downs.

Babe to Baker

In the last quarter Babe threw another long one to Carson to start our only scoring advance. Karasawa then ran and passed the ball to Oxy's 2 where Woody hurdled the line for a touchdown.

Mishaps

A greater blow than losing the game, were the several Engineers lost to the injury list. Jim Wilcox suffered most, getting a broken leg. Lewis chipped a bone in his ankle, while Karasawa may have received a slight concussion.

Woody came through with some powerful line plunging to help give us an 18-9 first down

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Fleming Wins I.H. Cross Country

The last interhouse cross-country meet came to a close with Blacker galloping to victory in the two and a half mile event, boasting Marshall first, Bowerman fourth and Kamei seventh. The Red Shirts copped second in the mile and a halfer and gained top honors in tabulation of points for all the meets.

Throop copped the Discobolus last Thursday by trouncing the Dabney baseball squad, 5 to 1. Sparkplugging the Throopmen to their victory were Walt Pfeiffer and Louis Stallkamp.

Darbs Triumph

Bouncing back from their recent defeat at baseball Dabney got the interhouse basketball season rolling with a 54-25 rout of Throop. Dick Brewer sparked the So'Westers to their decisive win.



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ON THE RECORD

(Continued from Page 2)

whole. **Don Giovanni** Monday night **Don Giovanni** was the opera presented. Italo Tajo, singing the title role, showed he could act as well as sing. Salvatore Baccaloni was particularly satisfactory as Leporello. The same general remarks could be made concerning the excellence of the production of this opera as of **Tristan und Isolde**. One wishes that the opera season in Los Angeles weren't so short.

The first concert in the current season of the L.A. Philharmonic Thursday night was a very pleasant surprise. It would be hard to draw a generalization about the Philharmonic from its opening performance. However, if its subsequent concerts are as good as the first, Los Angeles has virtually a new orchestra on its hands.

The improvements were apparent throughout the evening. Greater unity in the strings, under their new concertmaster Jacques Gasselin, was evident from the first bars of the Bach "Fantasia in G Major" to the last bars of the suite from "Der Rosenkavalier," by Strauss.

The woodwinds, quite good last year, have nevertheless improved, and played last Thursday with greater delicacy and control than they have shown before. The most obvious improvement was in the brasses, the cause of headaches to better orchestras than the Philharmonic. In the Berlioz "Symphony Fantastique" they had a prolonged opportunity either to show off or show up. The results were in their favor.

Concert Schedules

- NOVEMBER 4**
L.A. Philharmonic Orchestra. Alfred Wallenstein, Conductor.
Orchestral program
Pasadena Civic Auditorium
 - NOVEMBER 10-11**
L.A. Philharmonic Orchestra. Alfred Wallenstein, Conductor
Concerto in G minor for Oboe and Strings, Handel
Paganiniana, Op. 65, Casella
Four Slavonic Dances, Dvorak
Symphony No. 1 in C Minor, Brahms
Philharmonic Auditorium
Thursday evening, 8:30
Friday matinee, 2:15
 - BACH FESTIVAL**
NOVEMBER 4, 8:00
Alice Ehlers, harpsichordist assisted by violin, viola da gamba, and flute.
Immanuel Presbyterian Church Choir
 - NOVEMBER 5, 8:00**
St. Luke's Choristers
Clarence Mader, Organist
Linn and Cappy Pottle, Violinists, with Joy Pottle, Pianist
Fern Sayre, Soprano Soloist
Masterworks Chorale
 - NOVEMBER 6, 7:45**
Brass Choir
Cathedral Choir and Conservatory
Symphony
B Minor Mass
- All three concerts at the First Congregational Church, 535 South Hoover, L. A.

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CAMPUS BREWINS

(Continued from Page 2)

Discouraging perception was shown by D. Royce's blind date—though that was all that was discouraging about her. Royce picked her up with a shapeless, blue high-altitude suit covering him from ankle to wrist, and further concealed behind dark glasses. Upon arriving at the candle-lit party, she repaired to the powder room, and Kurland hurriedly crawled into Royce's suit and glasses. Upon said date's return Kurland greeted her with a possessive, "Let's dance, Jackie," to which she coolly replied, "How did you know my name?" Oh, well, "The best laid plans . . ."

Calmer man of the evening was Robbie Williamson, who was unconcernedly sipping his drink (the eighth) and chatting while Dick Welch, Harvey Johnson, and three upset Schmitts Misses kept agitatedly pointing out that only 40 minutes remained for the 45-minute ride to the Pristine Enclosure. They made it, but they had to slide. "Dutch" was blessed with a woman from out there who promptly drunk him under the table—no mean feat.

The squares assembled in the Rowdies' lounge last Saturday eve and put on a rhombic imitation of a Bimbel's basement sale. In the middle of the stampee stood Stontor Al Marshall, with his good ole corn-fed voice enunciating a call sounding remarkably like sooo-eee, pig, pig, pig. When everybody got tired

POTPOURRI

(Continued from Page 2)

pulled caissons and even died on the field of battle." The cow then said, "I've given my all, milk, butter, cheese, meat, skin and horns; yes, I've given my all." At that point the jackass jumped up, interrupting, "Heehaw, if I hadn't been in the diplomatic corps, there wouldn't have been any war."

Last week, I thought I had all the mistakes ironed out of this column, so when I got down to the paper office, I made a bet with Hefner, one hamburger per mistake. Well, I was pretty sleepy when I retyped it, and four terrible errors drifted into my text. Well, I paid off the four 'burgers, but the laugh of the evening came when Steese, who paid for his own, pried up the lid of his 'burger, and to the horror of the waitress, exclaimed, "It's dead!"

Any person on campus who has any comments, criticisms or hot tips for this writers may send them through the campus mail, or leave them in the C box in lower Throop.

(early, happily) of dancing in four-sided polygons, someone (not H. Ellis) turned out the lights, whereupon the figures became much less geometrical. Little known operators such as perpetual snake Dave Eliot (with some girl with an improbable name) were there.

SPEAKIN' SPORTS

(Continued from Page 3)

that when we hear the name of Notre Dame, Michigan or Minnesota we don't even think of their scholastic record but of their football prowess or their last Rose Bowl venture.

Notoriety

Tech is noted for its weak football team. But it is noted! Too bad we're in the unfavorable column, but since people choose to remember schools by their participation in football, we must continue our gridiron endeavors. If one maintains that notoriety is not necessarily to be desired in a technical school, let

TIGERS VICTORIOUS

(Continued from Page 3)

edge. Bain Dayman shone on pass defense, his speed and zeal foremost in the minds of Tiger receivers.

Heads Up

It would be easy to over-rate the Tigers on the basis of last week's game, since Tech helped them with so many mistakes. Still Oxy must be given credit for being alert enough to recover our fumbles, intercept our passes, and generally take advantage of our miscues.

Lineups:

Caltech (7)	Occidental (42)
Carson	LE
Berner	LT
Reed	LG
Hanna	C
Marks	RG
Miller	RT
Moore	RE
Schofield	Q
Karasawa	LH
Baker	RH
Lewis	F
Occidental	B
Caltech	Ingorsoll
	21 7 7 7-42
	0 0 0 7-7

him also admit that we need no school spirit, thereby subjecting ourselves to a cold 19th century education.

Nothing could compare with football as a nucleus for forming Tech spirit. From my gopher hole in the center of the Rose Bowl Friday, I could see no one moving from the stands even when the lop-sided scoreboard blazed 42-7 in the last minutes of play. Made me feel good, how about you?

TECH WHIPS UP

(Continued from Page 1)

accelerate in the expansion section, air at tremendous pressure blasts through a tiny slit, the approximate thickness of a sheet of paper. When the air suddenly expands into the test section, the temperature drops to about 430 degrees below zero Fahrenheit, while the pressure drops to about one millimeter of mercury, or 1/1000 of normal atmospheric pressure.

HOOPMEN

(Continued from Page 3)

spectators' program is in store. The Varsity squad will be much the same as last year except for the graduates Bass, Bruington, Saltman and Vreeland. Veterans Cox and Montgomery will be on hand to welcome from last year's Frosh squad such standouts as as Grey, Karasawa, Michaelson, Snider, Stewart, Patapoff, Tautz, etc. Bowen, Baker, Tyson, Michaelson and Karasawa will not be out for practice until the football season is over. Libby has a conflict with water polo and Butler is recovering from an appendectomy and is not expected to be out for practice right away. We all hope Sereno's football hand will be in sufficient repair so that he may see service on the squad before too long.

Don't forget that meeting tomorrow at 11 a.m. in 206 Dabney for all those men interested in joining and making a winning basketball squad.

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