

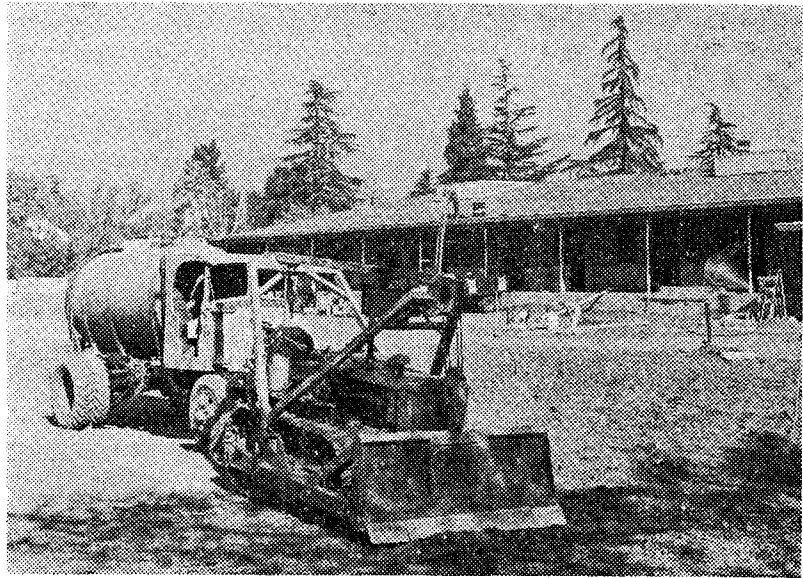
The California Tech

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Pasadena, California, Thursday, January 29, 1959

Number 15

Volume LX.



Construction on the Physical Plant building, first of the 16 new buildings included in the Development Program, continues toward the May 15 completion date.

Physical Plant Building To Be Ready May 15

May 15 is the target date set for the occupation of the new physical plant building now being built north of San Pasqual

street. Ground was broken for the structure, the first of the 16 included in the Development Program, last fall.

In an interview with the California Tech, Ernest Hugg, Assistant Director of the Physical Plant, described the new building and its purpose.

The physical plant department is responsible for the operation of the campus and employs over 100 people. The new structure will consolidate into one building all the department's offices and shops.

It will include loading and receiving docks, temporary storage facilities, paint, metal work, plumbing and electrical shops, drafting rooms and offices. The

(Continued on page 4)

Frosh Pick Leaders Today

New freshman class officers will be elected today to serve the remainder of the school year in the various class posts. The final list of candidates, as turned in to present frosh President Jim Geddis before last Thursday's deadline, includes the following candidates:

President: Dave Caseras, Stan Flatte, Jim Geddis and Frank Ridolphi.

Vice-President: Lon Bell, Dick Chang, Dave Grimes, Gary Lorden, Garland Marshall, Ed Miller and Rick Weingarten.

Secretary: Tom Creighton, Bob Koh and Larry Langdon.

Treasurer: Neil Gretskey, Richard Harris, Howard Kabakow and Tom Morehead.

BOC Representative (two to be elected): Gary Burke, Zell Cantrell, Ross Carder, Maury Gemud, Carl Hamilton, Larry Kugler, Steve Langley, Stu Linn, Tim Little, Roger Noll and Larry Nordell.

Athletic Manager: Chuck Rodoy and Dick Tuft.

Voting will proceed in the usual manner.

'Y' Presents Modern Films

Six experimental films will be screened Sunday night at 7:30 in Culberston as the second offering of the YMCA film series this year. Admission is 50 cents for those not holding season tickets.

The films to be presented include: "Pacific 231," the winner of the Cannes International Film Festival, 1949; "The Loves of Franistan," a satire on a Hollywood epic; "Image in the Snow," Cannes Festival prize winner; "Object Lesson," winner of the Grand Prix, Venice, 1950; "The Private Life of a Cat," a poetic documentary on the birth and growth of a cat family, shown on Omnibus, and "Go Slow to Brighton," winner of the Edinburgh Festival, 1952.

(Continued on page 8)

Press Explains New Data On Nuclear Detection

Special to The California Tech
Copyright, 1959

New data has shown that the underground nuclear blast detection system proposed at Geneva last summer is not as effective as was originally hoped, but American experts are optimistic that the system will provide increasingly better detection capability as techniques are improved.

This was a statement given the California Tech by Dr. Frank Press, who submitted testimony on the new findings to the Senate Subcommittee on Disarmament this week. Press is Director of Caltech's Seismological Laboratory and a member of the team of U.S. scientists that

Meeting Set For ASCIT Candidates

Final arrangements have been set for the election of ASCIT officers, according to ASCIT Secretary Tom Jovin.

Election proceedings will get under way on next Thursday, February 5, with a new idea for acquainting possible candidates with ASCIT offices. All present BOD officers, the editor of the California Tech and the Secretary of the BOC will meet to answer any question candidates or other interested parties might have concerning the various ASCIT offices. The BOD believes this new information panel will fill a lack in the education of the student body in ASCIT affairs. In addition, the meeting will let a potential officer know exactly what is expected of him should he be elected.

Nomination of candidates is scheduled for Tuesday, February 10, at 7:30 p.m. in 206 Dabney. Anyone wishing to run for an office must have someone nominate him at this meeting.

No further nominations will be accepted after this date, except for those offices for which only one person is nominated. Nominations for these offices will remain open until February 17, all additional nominations to be turned in personally to Mike Godfrey.

On Monday, February 23, will be the traditional election rally in Culberston. Candidates need not participate in this rally, but all candidates must pay a \$4 fee to ASCIT to help finance this operation and other election costs.

Elections will be held on Tuesday, February 24, in the normal election manner, with runoffs, if necessary, on Thursday, February 26.

The Thursday before the elections, the California Tech will run statements by each candidate concerning their qualifications for office. Announcement of winners will be made during dinner in the student houses on election day.

Election Calendar

- Feb. 5—Information panel of present officers for prospective candidates.
- Feb. 10—Nomination meeting at 7:30 in 206 Dabney.
- Feb. 17—Deadline for nominations for offices for which there was only one candidate nominated.
- Feb. 19—Statements by all candidates in the California Tech.
- Feb. 23—Election rally.
- Feb. 24—Elections, announcement of winners.
- Feb. 26—Runoff elections, if necessary.

Formal Fetes Jerry Grey

Jerry Gray's Orchestra will play for the annual ASCIT Formal Friday, February 20, at the International Ballroom of the Beverly Hilton Hotel.

Special deals on tuxedos are available at Dedricks, and on flowers at Ralph's Flower Mart for Caltech students.

Bids for the dance will be available from house social chairmen after Monday.

Charities Drive Aims For \$2400; Will Canvas Campus Feb. 9-13

The ASCIT Consolidated Charities drive will be held on the Caltech campus from Feb. 9-13, according to general chairman Tom Tisch.

A goal of \$2400 has been set for the campaign, which will be the only opportunity for undergraduates and graduate students to contribute to off-campus charities.

The three charities selected by the BOD for this year's drive are the World University Service, the Pasadena Community Chest and the Muscular Dystrophy Assn.

Only students will be asked for contributions since a \$700 pledge has already been collected from the Associated Institute Donors, a faculty organization. The AID contribution is tabbed expressly for the WUS.

Competition will again be held between the four student houses and Throop with the winners receiving steak dinners served by the faculty. Clyde Zaidins has been named assistant chairman, the five-house representatives to be chosen later.

The charities selected are on a world, national and local level. The WUS, supported entirely by world-wide student contributions, aids foreign college students by purchasing books, medical supplies and such. The MDA was selected because of its worthy but little-publicized research toward solving the problem of muscular dystrophy. The Pasadena Community Chest serves as a clearing center for numerous local charities.

Burton will close out his campus visit next week, meeting with the History 4 and 124 classes on Tuesday, and with

(Continued on page 8)

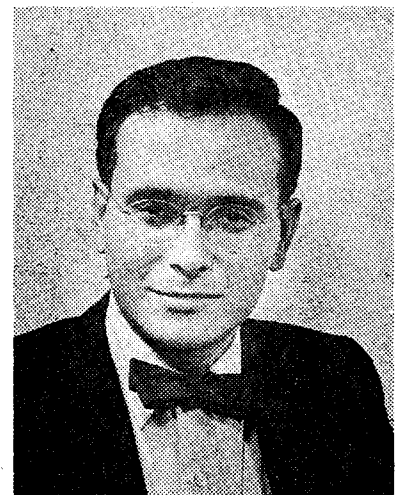
Burton Slates Y-Speech On Brainwashing

Undergraduates can learn the techniques of brainwashing in Communist China from expert Robert A. Burton at the Undergraduate Lunch Forum tomorrow at the training table.

Speaking from experiences told him by personal friends brainwashed by the Reds, Burton will describe the pressure placed on them by the Communists.

He will also speak to the faculty at a dinner meeting at the Athenaeum tonight. Using information gleaned from a former Communist leader, he will describe the seven top leaders in the Chinese hierarchy.

Burton will close out his campus visit next week, meeting with the History 4 and 124 classes on Tuesday, and with



Dr. Frank Press

helped develop the Geneva inspection system.

"At the time of the conference last summer, we had data from only one underground blast. We estimated the smallest blast the 180-station network could detect at 5 kilotons, but realized that the uncertainty in this estimate was very great," Press explained.

"Last fall a series of underground explosions was carried out that gives us about four times as much data. Revised estimates now give the system a 20-kiloton capability.

"The data is still very scanty because there has been so little

(Continued on page 8)

Pi Kappa Delta Initiates Five

Caltech's chapter of Pi Kappa Delta initiated five new members Tuesday night. Initiated into the society were Carl Hamilton, Roger Noll, Carl Rovainen, Kip Thorne and Joel Yellin.

Pi Kappa Delta is a national forensic honor society, open only to experienced debaters and orators. To be eligible for membership, debaters must have competed in at least five official intercollegiate debates and have the recommendation of their school's chapter, according to Debate Coach Dwight Thomas.

Announcements

Honor Keys

Applications for honor keys and certificates are due before 7:30 p.m. on Monday, February 2. Applications for these awards, which can be obtained from BOD members or House Presidents, should be turned in to Dave Spencer in Fleming.

Student Shop

The Student Shop is again accepting new members. Applica-

tion blanks can be picked up from Bob Paulthorp in Fleming and should be returned to him by Wednesday, February 4.

Bowling, Bridge and Billiards
Bowlers and bridge and billiard players interested in being chairmen of possible Caltech entries into national college tournaments in these sports are urged to contact Bob Thompson at once.

Fineman's Shilling Scandal Sheet Scans A Scrappy Rectorial Campaign

Joe Fineman, '58, is holding down the job of chief of the California Tech European Bureau while he attends St. Andrews University in Scotland on a Fulbright Fellowship. His correspondence continues this week with the second installment of his fourth entertaining letter.

LONDON
29 DECEMBER
1958

(Continued from last week)

The most important social unit is, as might be guessed from all this, the small clique of a dozen or fewer, usually homogeneous as to year and with a strong tendency to be so as to faculty (major field). Classes would seem to be a more important part of the life than in the U.S.; at any rate, physicists tend more to be friends of physicists, and so on. Otherwise, interest groups seem to grow up along familiar lines; there are, for example, obvious intellectual and jock-strap factions. But they are

rigid; if you put a tack anywhere on the long benches at the be-jant table in Sallies, you could practically tell in advance who would sit on it. Since, not belonging to a clique, I sit pretty much at random, I find that either one clique sits down on one side of me and another on the other, or occasionally, I am asked to move — like an impurity atom forced to the boundary between two crystal grains.

The Rectorial, which I mentioned in No. 3, was pretty good aid for etching out some of those boundaries. Lord Boothby (who —to dispense with suspense—won), retiring from Commons this year and of great political, if of no particular intellectual, eminence, attracted for some reason the enthusiastic support of the jocks, goons, impressionable bejantines, and other well-supplied with herd instinct. (I don't want to imply that there were not other reasons for voting for him, or more interesting.) Uni-

quities of the Boothby campaign included huge posters pasted up all over town — even on the tower of the college chapel, and despite administrative warnings that anyone putting up posters would be sent down . . . ; cheers American and songs borrowed from American football games; a Boothby banner stretched across a gate guarded by two large persons with four-foot clubs standing on the wall on either side; — you see what I
(Continued on page 4)



"Donahue, why don't you just learn to dance?"

Editorial

A Garden Of Versus

Less than a week after the editors and contributors of **Totem** ventured to put their product on public display, they were machine-gunned by a bearded rebel who calls himself Joel Amiin. Almost immediately Amiin was forced to scurry for cover before the sniper fire of some **Totem** sympathizers and counterrevolutionaries. (See "Letters To The Editor," page 3.)

Was Amiin's critical raid on **Totem** justified? We think so. His criticisms gave voice to what we feel were the mute sentiments of a majority of **Totem's** readers. And the California Tech is glad to have a columnist who was able to do that; for Amiin is one of that rare kind of Tech student—the kind with strong, informed opinions and a willingness to take the time to express them.

The readers of **Totem** have a right to be dissatisfied. The magazine's attempts at sophisticated literary forms, except for occasional flashes of skill, can only be termed "pretentious posturings," to borrow a phrase. The editors' disregard for the literary tastes of Caltech students, and the editors' reluctance to seek contributions from more than a small portion of the talented writers among the students, have resulted in a magazine that is totally inbred—written by and for a handful of students.

We agree that the work of amateurs is entitled to a "more charitable reception" than that of professionals. But our amateurs have jeopardized their amateur standing by accepting an ASCIT subsidy for their work. When a reader such as Amiin finds an issue of **Totem** totally not to his liking, and then remembers that the issue cost him \$175, he is likely to feel his charity strained.

The questions "What things is **Totem** trying to do?", "How well does it do them?", and "Is it worthwhile?" were not treated by Amiin, and rightly so. We suggest that these questions are more properly the province of **Totem's** editors, who seem to have been neglecting them. Perhaps Amiin's criticisms, so far as they reflect student response to the recent issue of **Totem**, will be useful to the editors when they get around to reviewing the questions.

Godfrey's Sitzmark

On the second page of last week's ASCIT minutes, there appeared an unassuming little note that should be of great interest to the student body. It read, in part:

"Treasurer Arenson announced that ASCIT had \$4142.99 invested with the Institute. Godfrey reported that a well-equipped house on Mt. Baldy was being offered for sale at a price of \$7800. Possibilities for obtaining the property through action of ASCIT or a joint effort with the YMCA are to be investigated."

Our reaction upon reading this was: "A WHAT?" But further investigation reveals that this might not be such a crazy idea.

The BOD must answer many questions while they are "investigating possibilities." Will enough students make use of such a cabin to justify an \$8000 expenditure? Who will decide which groups can use it? Is it necessary to spend the money at all and, if so, are there any better investments?

The student body, too, could do a little thinking about the possibilities—and problems—this proposal offers.

MS, PhD or ScD Candidates
in Engineering—Physics, Applied Mathematics, Chemistry

SPACE TECHNOLOGY

Space Technology Laboratories is responsible for the technical management of the USAF Ballistic Missile Program and Space Probes. In addition special scientific laboratories are now engaged in the exploitation of highly sophisticated space studies leading to new space vehicles and communication systems.

To assure continued growth in our capabilities for scientific advances in these areas we must secure those who have outstanding potentials to grow in their chosen technical fields. Opportunities are available for those receiving their MS or PhD degrees in the near future in the following areas:

- | | |
|--------------------------------|------------------------------------|
| <i>Theoretical Physics</i> | <i>Magnetohydrodynamics</i> |
| <i>Experimental Physics</i> | <i>Solid State Physics</i> |
| <i>Applied Mathematics</i> | <i>Digital Computers and</i> |
| <i>Space Communications</i> | <i>Computer Design</i> |
| <i>Radar Systems</i> | <i>Guidance and Navigation</i> |
| <i>Antennas and Microwaves</i> | <i>Telecommunications</i> |
| <i>Inertial Guidance</i> | <i>Electro-Mechanical Devices</i> |
| <i>Analogue Computers</i> | <i>Engineering Mechanics</i> |
| <i>Aerophysics</i> | <i>Applied Aerodynamics</i> |
| <i>Propulsion Systems</i> | <i>Environment of Man in Space</i> |

For your convenience technical representation from our laboratories will be available on
January 30
for discussing the opportunities available.
See your placement office for an interview appointment.

Space Technology Laboratories, Inc.
P.O. Box 95001, Los Angeles 45, California

LETTERS TO THE EDITOR

● **Amiin Reprehended**

Editor, The California Tech:

As one reads "Amiin and the Arts" in issue after issue of the California Tech, he gradually comes to realize that its author considers himself qualified to criticize poetry, novels, classical and modern music, and anything else in sight, not from the position of a dilettante, but as an expert in each of these fields. Anyone who has been a Caltech student for any length of time is too familiar with "snow jobs" to be impressed or amused by these weekly intellectual acrobatics.

So long as Yellin confined himself to dismissing as trivial in a few sentences the work of internationally respected professional authors and musicians, his pretentious posturings were perhaps excusable as the awkward attempts of a somewhat immature student critic. But as he has recently turned his attention more often to the literary work of Caltech students and faculty members, which as amateur or semi-amateur work should be entitled to a more charitable reception than that of professionals, his columns have exhibited an inexcusably boorish lack of common courtesy. His uncalled-for personal insults to the writers of the recent issue of *Totem*, which was sincerely enjoyed by many students less sophisticated than Yellin, can be rectified only by his immediate dismissal from the California Tech staff.

Freedom of a bylined columnist to express opinions on controversial issues is not to be confused with license to ignore the most elementary rules of polite conduct.

Les Hirst

seems to me that Amiin has ignored his responsibilities as a critic and forgotten to ask: (1) "What is the purpose of the object being criticized?" as well as (2) "How well was it done?" and (3) "Was it worth doing?"

After watching the uncertain but heroic struggles of successive groups of students to get a literary magazine going at Caltech during the past six years, I'm tired of listening to the catcalls of the by-standers. Somehow, I never expected Joel Amiin, of all people, to line up alongside the Pharisees and the Philistines.

Just about every college worth its salt, here and abroad, has a campus literary magazine that has been established for the purpose of publishing student writing not suited to the quite different objectives of the campus newspaper. Naturally, very little of the writing published in the magazine turns out to be deathless prose (or poetry). So what? The important thing is that student magazines exist and that they stimulate students to write. What is better for the would-be writer than the

sobering experience of seeing his brainstorm in cold print?

What good is this experience? Just take a look at the back numbers of some of the older college magazines (say, Princeton's *Nassau Literary Magazine*, founded in 1842, or the *Yale Record* or *Harvard Advocate*) and you will see how many outstanding leaders in every walk of life — Nobel prize-winning scientists, successful engineers, business tycoons, famous American statesmen and presidents, as well as well-known authors and editors — had fun writing for their college magazine when they were students. If Caltech's purpose is to produce creative leaders, why doesn't *Totem* play a more important role in student life?

How can we make it still better? How can we get more students at the Institute to write for it? How can we create a more sympathetic atmosphere around here for a good campus magazine? I wish Amiin would wipe the poison off his typewriter ribbon and give some attention in his future columns to these questions.

Dan Piper

President's Column

ASCIT elections are again approaching. This year an information meeting has been planned in order to acquaint potential candidates and interested students with the activities of ASCIT.

As a preview of the meeting I would like to mention very briefly a few of the activities of ASCIT during the past year.

The Board of Directors made the appointments of individuals to the offices of Business Manager of the California Tech, Editor and Business Manager of the Big T, Editor of the Little T, Chairman of the Election Committee, membership on the Student Educational Policies Committee and Student Camp Counselors. The choosing of individuals for these offices required personal interviews with the candidates. The Board also determined a budget of approximately \$15,000 of student body expenditures for last year. Members of the Board supervised the organization of the ASCIT publications and photo services. Last year they participated in the reorganization and planning of Freshman Camp and helped on such activities as the Fall

Jazz Concert. They also planned and carried out the summer visitation program.

The members of the BOD who have also served on the ExComm helped to initiate student action on art and music classes and a review of the PE program. They also have begun work on a comprehensive report of student conditions and attitudes at Caltech.

The Secretary of the BOC participates in all the activities of the BOC and maintains the records of that organization. His work is both interesting and vital to the smooth operation of the single most important ASCIT organization.

The above list of activities of the officials, whose offices are at stake in the coming election, is far from complete. However, it should serve to point out the possibilities of participation in ASCIT affairs. Students are solely responsible for the entire ASCIT operation—valuable and successful.

Remember that the ASCIT information meeting is next Thursday at 11:00 a.m. in Culbertson.

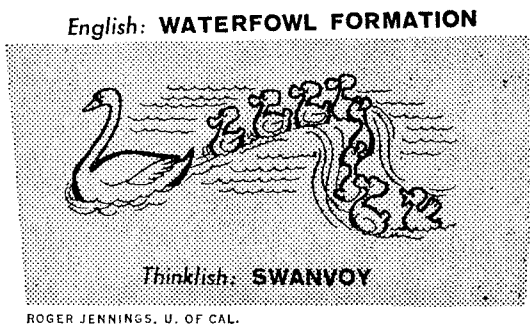
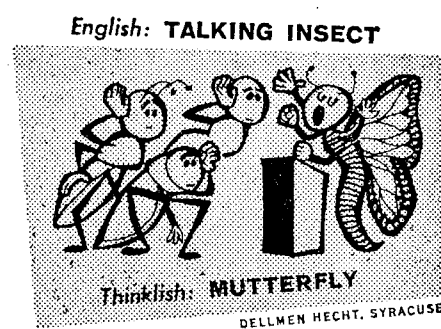
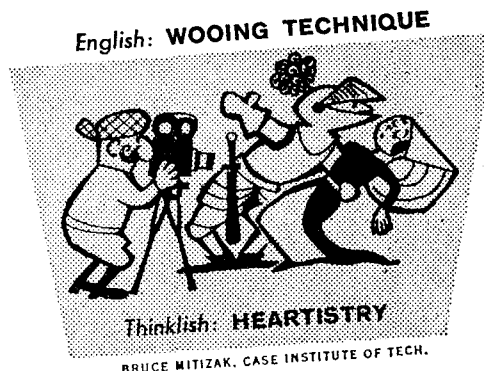
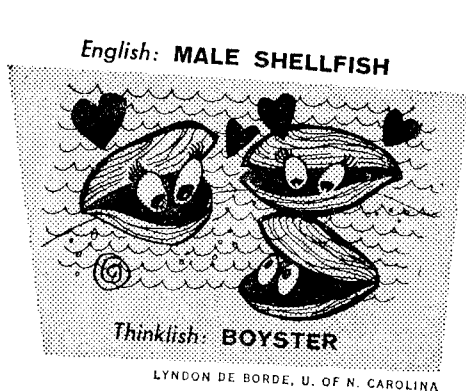
MIKE GODFREY

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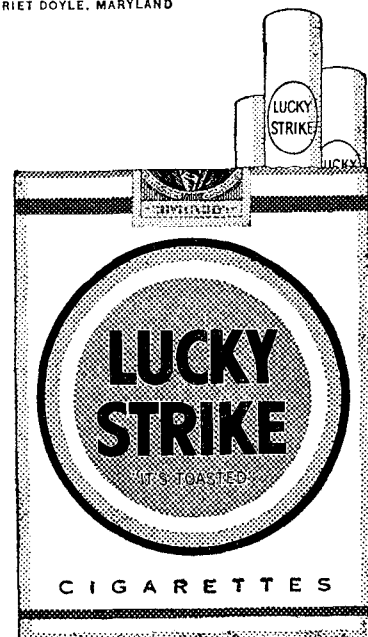
Send yours to Lucky Strike, Box 67A, Mount Vernon, New York. Enclose your name, address, college or university, and class.



English: MAN WHO CONDUCTS POPULARITY SURVEYS

Thinklish translation: This fellow knows more about polls than a telephone lineman. When someone starts, "Hail, hail, the gang's all here!"—he counts noses to make sure. If he canvassed women, he'd be a *calculator*. If he totted up crimes of violence, he'd be a *stabulator*. Actually, he checks on the popularity of Luckies, and that makes him a *lauditor*! His latest survey makes this heartwarming point: Students who want the honest taste of fine tobacco are unanimously for Lucky Strike!

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Get the honest taste
of a LUCKY STRIKE



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2nd Feature
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Breakfast Lunch Dinner



By Griffen

This Christmas, when the fog of finals had cleared, and Griffen was able to walk again, he cruised down to sunny muchacha-land for a restful vacation. Naturally, the nights must be filled with jovial festivities, and every festivity in Mexico usually contains alcohol in one form or another. Two things that Griffen learned were that drinking in Mexico City is expensive and costly. The altitude will put you under the table way before you've reached your normal capacity. Date quickly fades in distance as mustacioed native sweeps her away in rhythmic cha-cha-cha.

What you'll drink the most often is probably not tequila, but Cuba Libres. Even in the low altitudes, this simple beverage is plenty potent.

Cuba Libre

- 2 jiggers rum
- 1 bottle Coke or Pepsi
- 2 slices lime

Pour the rum over lots of ice cubes and fill with cola. Then squeeze one of the limes into the drink and throw in the other one without squeezing. Mix. As you drink, keep adding cola to fill.

If you want to try something a little different, Griffen suggests the Conga. This is nothing but a lot of canned fruit juices and rum, but it's extremely good and comes in handy because rum need not be added, and it's very hard to tell the difference through the fruit. For yourself, take the drink straight; for your date, about two jiggers of fine rum.

Conga

- 1 jigger pineapple juice
 - 1 jigger papaya juice
 - 1 jigger orange juice
 - 1 jigger Bugs Bunny Punch
- Mix well over lots of crushed ice. For color, add grenadine.

Amiin And The Arts

By Joel Amiin

Two novels currently high on best-seller lists are Nebokov's "Lolita," and Travers' "Anatomy of Murder." "The first contains some of the most beautiful descriptive prose I have ever read. The one difficulty with the book is its uncomfortable subject. Somehow one gets a terrible nauseating feeling, thinking of a 40-year-old man seducing a 12-year-old girl. Of course, one hesitates to put a value judgment on the book because of this, since this nausea may have been the very effect that Nebokov wanted. Whatever the objections one has to his material his style is very near perfect and his facility is tremendous.

Novel Very Dry

The murder novel is very different and very dry unless you like your legal philosophy very straight and your human beings diluted to the nth degree. The angle of the mystery, written from the point of the hard working — but not righteous — defense attorney is new and different. The twist that ends the book is completely unexpected—Perry Mason's clients never turned out to be fourflushers—it's interesting and a little entertaining.

Fineman's Shilling Scandal

(Continued from page 2)

mean. Boothby was also rather unfairly accused of corruption (you see this lacked nothing needed to make it a real political contest). It seems that when Czechoslovakia folded, he was trying to get Czech funds, then frozen in Britain, distributed to refugees some of whom were in debt to him. Actually his Parliamentary career has been quite distinguished; he was a member of the group that initially challenged and eventually brought down Chamberlain. (An inscription on the cornerstone of the College of Hygiene and Tropical Medicine a few blacks from here, by the way, says it was laid by N. C., Minister of Health.) MacAndrew, who came in second, was probably supported for better reasons, on the average, than any of the others. (This does not mean he was the best candidate.) His strong point was his promise to live in StAs. and be constantly available as well as presiding over all University Court meetings. Glubb Pasha (third), who spent most of his life building up the Hashemite dynasty in Jordan, attracted many jokes "can he shoot left-handed from a galloping camel?" "Mad, passionate Glubb") and an enthusiastic following whose composition I do not know. I would guess offhand he would attract the decadent - Empire - Loyalist sort, but it is hard to believe that there are many such among present-day students.

Last and least, we have Christopher Murray Grieve. I had never heard of him, but from the quotes (from Joyce, T. S. Eliot and so on) that were printed in pro-MacDonald pamphlets, he is quite a big cheese, the greatest Scottish poet since Burns. He has written a difficult, book-length thing, mostly in English, called *In Memoriam* James Joyce, and also a great deal in Scots, where I find indeed fine stuff. He is an enlightened Scottish nationalist — one of the founders of the Scottish Nationalist Party but broke with them when he found them getting petty and parochial — and an intellectual leader in modern Scotland.

(To be continued)



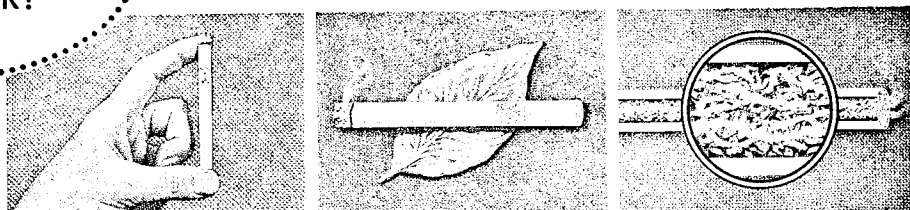
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Physical Plant

(Continued from page 1)

steam tunnels will be extended under San Pasqual to provide heat for the building.

Completion of the building will allow the department to vacate all its present facilities on the main campus. The YMCA will temporarily take over most of the old physical plant offices. The department's shops and other buildings will be torn down in preparation for the construction, scheduled to begin late this summer, of the three new student houses.

Poor Students Need Not Apply

For Rent: Unfurnished apartments. Contemporary, modern, hep, unique, indoor, outdoor, patio and balcony. One and two bedrooms.

477 S. El Molino
SY 5-2121

Jazz Beat

by Lloyd Kamins



Brubeck Time — Dave Brubeck Columbia CL 622 featuring: Dave Brubeck, piano; Paul Desmond, alto sax; Bob Bates, bass; Joe Dodge, drums.

Brubeck is an extremely difficult artist to review. He is without a doubt a controversial figure, but the controversy arises more from misunderstanding and from definitions than from tastes.

There are many individuals who claim that they like jazz, and when asked for their favorites give only Brubeck, or perhaps George Shearing. I have no quarrel with these people as far as tastes. First of all, taste is an individual thing, but moreover, I like to listen to Brubeck and related artists. The difference of opinion arises when Brubeck is referred to as a foremost jazz artist, or as a swinging pianist. I insist that he is neither.

Not Jazz

Brubeck does not play jazz. "What is jazz?" is, of course, the immediate question. Jazz is an undefined, nebulous thing, but it has distinct limits. Although it is impossible to draw up a set of characteristics that must be included in order that a certain piece of music be considered jazz, it is instantly apparent that the piece of music is or is not jazz, according to the accepted conception. The most logical conception of jazz to use as a standard is the conception of most playing jazzmen. Perhaps the old saw would be more appropriate, however, "If you have to ask, you'll just never know!"

In the vernacular Brubeck does not swing. He plays interesting ideas, develops themes in a well-organized and inventive manner, and at times plays some beautiful passages. His melodies are always adequate, and at times inspiring. His harmonies, chord progressions and substitutions are amazing and quite impressive. He doesn't impart any rhythm to his solos, however. Although all his melodic and harmonic passages conform to the meter of the song, they contribute nothing to the over-all rhythmic qualities of the band. It is as if Brubeck's lines were superimposed on a jazz background. The bass and drums swing away, and the piano plays its interesting little figures. If Brubeck's lines were isolated from the background of jazz, there would be immediately noticed the lack of any rhythm. Syncopation is absent, as is the presence of scattered accents serving to propel the melodic line. Instead, there is but the ponderous, complex, but immovable inventions of Brubeck. His lines just don't swing by themselves.

Desmond Plays Jazz

This is not to say that Desmond doesn't play jazz. He plays beautifully and with great artistic feeling. His range of emotions is perhaps limited, but he blows with soul. Desmond himself is in his music. And he says the most beautiful things. Paul swings, too. He isn't a hominy-and-grits cooker, but he does lightly drive the band along, and lapses occasionally into faint suggestions of guttural intentions. It is his imagination that should be most praised, however. He is one of the most lyrical soloists in jazz, his superiors being Stan Getz and Miles.

All this results in a great difficulty in classification. Personally, I consider Brubeck to be in a class by himself, as is Gershwin.

CAMPUS BREWINS

Ghoul Gleet Scene

Beak has heard many fine tales about the debauchery of the Darbs, but now comes one to top them all. T'would seem the Drubnoids had an orgy ont so long ago; an orgy in the true Bacchanalian sense of the word. Various droll scenes from here and about the chancrous pad, where lecher flowed freely: Glob Fange lurches about room on wild kissing jag, impinging wetly upon all available wenches. In his pursuit of sensuality he even, 'tis rumored, glommed onto the hairy cheek of one M. Bogot.

Scene shifts to darkened bedroom, with joyous couple madly wrestling midst tangle of sheets. Sudden burst of light fills room, while Gouge Lushly staggers glassily into room, teeters precariously towards wall, quietly slides down to floor in crumpled foetal position. Broad caroms through door, espies Lushly,

murmurs softly, "We're your friends, Gouge," drags inert corpse heavily out of room.

are drowned by giggles of fiendish glee.

Sportscar Ravished

Latest conquest of horny Phlegm, Swiny Toads, is rumored to be sacred white machine in passionate encounter with machine's headlights was revealed not only to unhappy Polswine but two unknown females who witnessed rape from nearby auto, which they quickly removed from scene of crime to protect its chastity.

Change of Management

Gleeter Rooney, sitting next to Scurv dinner guests, G. Mayyou and wife, rises to announce he is no longer in doughnut business. "I have transferred my doughnuts to another Gleeter," explains Rooney. Vast roars of amusement rise from assembled troops; cries of "let me explain!"

Love in the Wilds

Beak went along with party of brew-laden Phlegms, who wended their eager way to Altadena foothills recently; pointed out to him by eager explorers among group presence of one Laid Blueblech already famed in song and story, not to mention feminine companion. Blueblech and partner, silently ensconced on grassy hillside, were roused from ardent undertakings by sudden serenade of various raunchfest tunes sung by group of sloshing slobs who careened madly down path below Blueblech, praising glories of cold coast duck and other things, while Beak and two others in better control stood back and cringed at eager outbursts of tunelessness. Blueblech and wench shortly vacated scene, songs perhaps having hit too close to home.

They said it couldn't
be done...
They said nobody
could do it...
but —

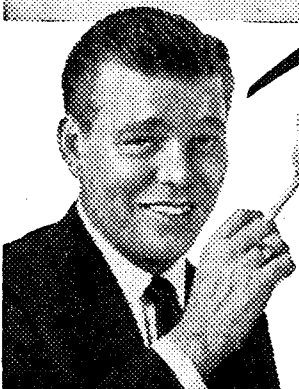
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Sports

AS I SEE IT

P. E. Problems Persist; Improvements Suggested

By Russ Pitzer

There has been a lot of discussion about PE recently and I think that some of the ideas presented are worth while as well as being practical. One thing that seems to be lacking, however, is a statement of purpose for PE at Caltech. Nobody has come up with one that was agreeable to most people. The Faculty Committee on Educational Policies could not come up with a good, concise statement of purpose. They felt that it was a desirable thing in general and that it would be good to point it towards the acquisition of skill in sports, such as golf, swimming and tennis, which people out of college commonly participate in.

Students, Faculty Agree

The results of the PE poll so far indicate that the majority of the student body agree with the faculty that PE is beneficial and should last all four years. I think the main reason for this is the feeling that physical exercise is good for you and that the

demand for time at Caltech doesn't override this.

A feature, I think, that is definitely desirable in PE, is organization. If you are in something organized, you feel that you are accomplishing something rather than just wasting an hour. This is why most people enjoy inter-house athletics and swimming or tennis classes. One way to extend this could be to try and teach other things, such as golf or bowling.

Liberalize PE Credit

Even if teaching proves impractical, if someone knows how to golf or bowl and would rather spend part of the afternoon doing this rather than going to PE class, he could be given PE credit for this.

Any way at all to increase the amount of programmed or organized sports would increase the amount of interest in PE.

There have been several suggestions that are probably workable without having rigidly scheduled classes, which are a real convenience.

Interhouse Tennis

Dabney Sweeps Tourney

Dabney continued its march for the Interehouse sports trophy last week end, moving far ahead in the standings via a decisive victory in the Inter-house tennis tourney.

Showing overwhelming depth, especially in the lower brackets, Dabney netters swept three of the four divisions to collect 35 points and the victory.

Ricketts, making a strong call challenge in first and second singles, gained 24 points and second place in a mild surprise. Throop and Blacker, in a tight battle for third, tallied 22 and 21 points, respectively, while Fleming rounded out the field with 18.

John Walsh, ambidextrous Ricketts junior and a mainstay on last year's winning squad, easily powered his way to a win in the first singles division. Rich Hess, Throop freshman, displayed a well-rounded game in notching second position. Hess, top prospect for the freshmen squad, and third-place finisher Cedron Jones of Dabney tangled in one of the day's best matches with Hess winning, 9-3.

Jones, another promising frosh, put up the best battle against Walsh in losing by 8-4.

Chuck Antoniak and Bob Thompson of Fleming and Blacker filled in fourth and fifth spots.

Dabney's power began to become evident as John Bard, Darb junior, downed all comers in copping the second singles division. Rickett's freshmen Bob Hearn and Blacker's Al Hale took second and third slots, respectively.

Roger Hoelter of the winners finished 12 games ahead of second-place Francis Wilson, Throop frosh, in the tourney's most lop-sided division. Hoelter's only trouble came against Wilson in a close 7-5 match. Ray Barglow, Fleming frosh utilized a strong finish to take third place.

Doubles competition was the closest of the tournament with Dabney and Blacker in a deadlock for top position. Dave Sellen and Marty Carnoy of the victors and Blacker's Maury Genud and Dave Teal split first and second-place points. On the strength of a last-minute

spurt, Bob Ruddick and Dick Weinsilbom of Fleming came in third.

Bowling

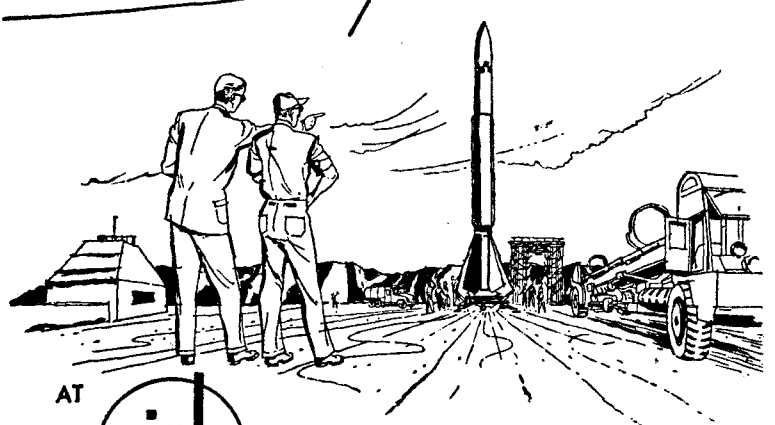
Throop turned back Fleming's challenge for the Inter term bowling trophy last Saturday in the final frames but faces a current challenge issued by Dabney.


Top kegger for the victors was John Everitt with a 516 triple. Howard Kabakow racked up a 203 single for top effort of the night. Fleming high man was Bob Gershman with a 200 single and 498 series.

The margin of victory was a scant 86 pins.

Throop				
Calaway	146	138	155	439
Kabakow	93	203	136	432
Schultz	99	120	127	346
Chamberlain	165	169	176	510
Everitt	187	153	176	516
	690	783	770	2243
Fleming				
Brown	133	123	149	405
Sloss	124	162	153	439
Gershman	129	200	169	498
Goldford	150	114	138	402
Leverett	167	167
Creighton	147	99	246

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U.S. CITIZENSHIP REQUIRED

ON CAMPUS INTERVIEWS

February 12

A Campus-to-Career Case History



Telephone engineer Stu Black—and the booming Southern California region he serves.

"The telephone company helps you blueprint your future"

Stuart C. Black had job offers from seven companies before he got his B.S. degree in Engineering from U.C.L.A. in 1954. His choice: the Pacific Telephone and Telegraph Company in Los Angeles.

"They told me exactly what to expect," he says. "Every phase of my training, covering two years of rotational job assignments, was outlined. They made it easy for me to see where I could go."

Since Stu was hired, he's climbed poles, installed telephones and worked with architects and contractors. He's designed ventilating systems and studied labor-management relations. He's handled million-dollar-a-month settlements with connecting telephone companies for mutual use of Long Distance lines. And he's learned how complex bookkeeping is reduced to punches on IBM cards.

Today, Stu is a Staff Engineer in San Diego. He programs equipment and money for engineering projects as far ahead as 2½ years in one of the fastest growing areas in the United States.

"The telephone company is a 'look-ahead' kind of business," says Stu. "It can predict future telephone needs and the need for more and more management people. So there's a whale of an opportunity for the young fellow who really wants to get ahead."

Many young men like Stu Black are finding interesting and rewarding careers in the Bell Telephone Companies. Find out about career opportunities for you. Talk with the Bell interviewer when he visits your campus. And read the Bell Telephone booklet on file in your Placement Office.



BELL TELEPHONE COMPANIES

Beaver Quintets Underdogs Against Powerful Bulldogs

Freshman Cagers Top Claremont, L.A. Trade Tech

Taking two of three games over the past week, the Caltech freshmen cage quintet upped their season record to 4-5.

Breaking a close contest wide open midway through the final period, the Techmen downed Claremont, 56-49, in their latest effort Saturday.

On the short end of a 27-26 intermission reading, the winners used the shooting of forward Gerry Clough to take the lead permanently. With five minutes remaining while four points behind, Clough pumped four quick buckets through the cords from the corner to spark the Tech push.

The victors, displaying their best showing of the campaign, utilized a balanced offense in netting the win. Clough swished in 18 points, 14 in the final half. John Arndt tallied 13 points, Roger Noll hit 11 points and Dean Gerber scored 10 markers.

LA Trade Tech suffered its second defeat by Caltech, 90-81, last week. The CIT frosh set a new scoring record in grabbing the game. Four men scored in double figures with Clough topping the list with 26 points. Noll pumped in 25 points, Gerber, 18 points, and Ridolphi, 15 points.

Occidental handed the little Beavers their third conference loss, 73-63. Once again, lack of a strong bench hurt the losers as they faltered after staying at 58-57 with three minutes left. Clough's shooting accounted for 25 markers with Noll clicking for 15.

Cal Poly Proves Too Big, Too Deep For Varsity in Sweeping 77-57 Win

Still looking for a first victory, the Beaver varsity cagers journey to Redlands Saturday night to oppose the second place Bulldogs in the only SCIAC conference game of the week.

Redlands will be gunning for its fourth conference win, having lost only to conference leading Whittier. Coach Lee Fulmer's squad whipped Tech on its own floor earlier this season, and remains heavily favored to repeat.

The Bulldogs played impressive basketball in edging Pasadena Nazarene's tough quintet 80-78 on Pasadena's court last week end.

Redlands' Gerry Morse holds third place in the conference scoring race with a four-game average of 15.5 points. Dick Eiles and Sonny Pejisa also rank among the league's top ten shooters with 12.8 and 10.0 averages respectively. Morse is 16 for 19 from the charity line and Pejisa 10 for 12.

Caltech's John Stene ranks fourth with a three-game conference average of 13.7.

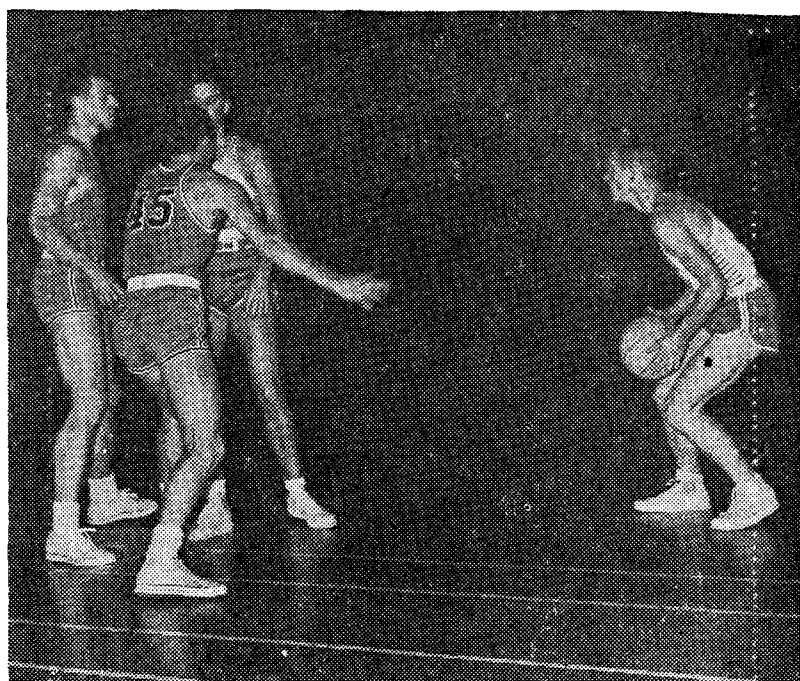
Cal Poly, with a big rugged squad and strong substitute strength, came to life in the second half to overpower the Beavers 77-57 on Tuesday. Caltech moved ahead in the early minutes, but a fresh Cal Poly platoon quickly took command for a 26-22 half-time advantage. Starters McClure and Brown picked up three fouls before the intermission, and McClure a fourth in the first minute of the second half, and as a result both were forced to see only spotty action for the rest of the game. Nevertheless the Beavers, cap-

italizing on alert and aggressive basketball by guards Holland and Blakemore, tied the count at the free throw line seven minutes into the second half. But then smooth center Carroll of Cal Poly stepped around second string Ron Arps for a basket. A moment later Carroll fouled Arps in battling for a rebound and with a chance to tie up the game again, Arps' free throw attempt bounced in and out twice. The lead opened to seven points within a minute and Cal Poly poured on more and more pressure to pull away.

Beavers Press Oxy

The Beavers led a strong Oxy five at the half, 36-33, last Friday night on the Tech court, but cooled considerably after the intermission to lose by an 80-67 score.

Tiger guard and league-leading (Continued on page 8)

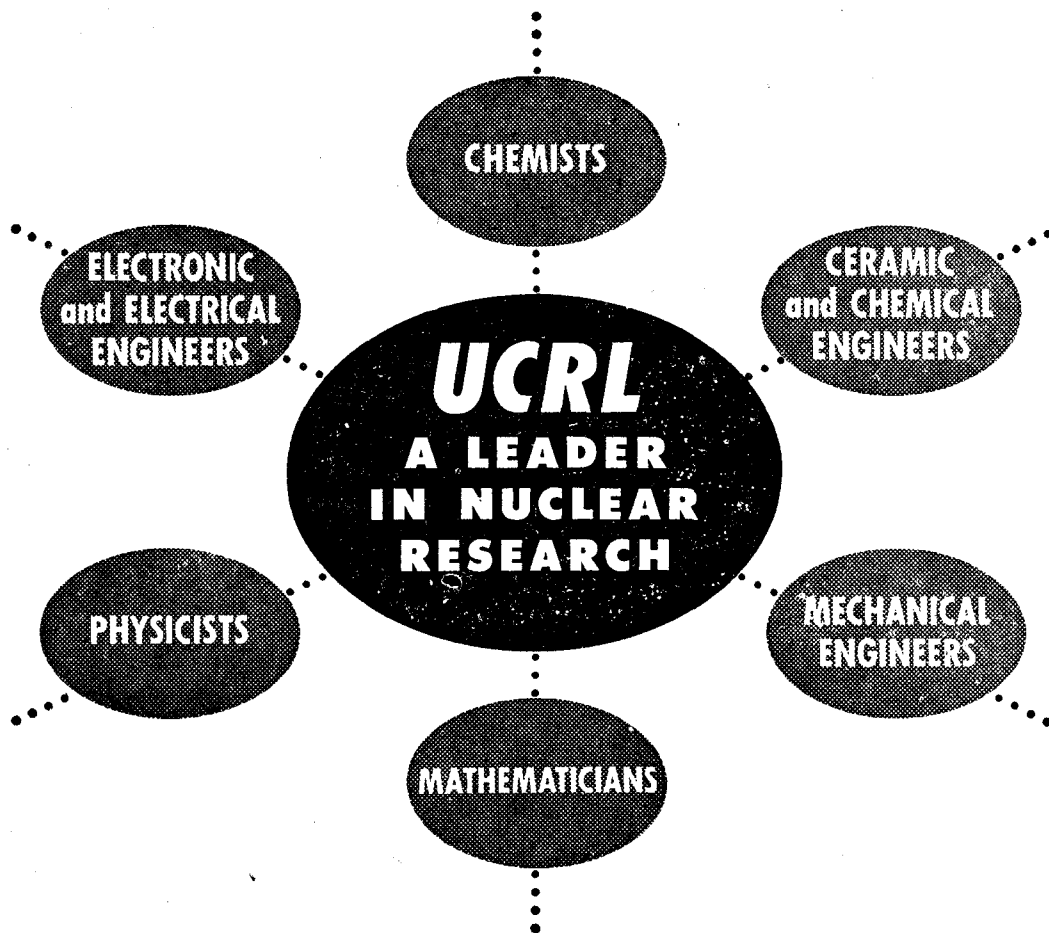


Tech guard Bill Blakemore (right) searches in vain for a free teammate to pass to as the Beavers move on the offensive against Oxy's tough Tigers last Friday night. Ahead by three points at the half, Caltech tired and lost 80-67.

Redlands will host the cagers Saturday night in the next conference game.

SCIAC BASKETBALL

	Conference				Overall			
	W	L	PF	PA	W	L	PF	PA
Whittier	2	0	117	68	7	7	869	852
Redlands	3	1	298	228	8	8	1009	977
Occidental	2	1	232	206	7	5	877	809
Pomona	1	3	167	226	3	10	606	788
Caltech	0	3	167	208	0	9	421	533



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- ANTISUBMARINE WARFARE
- ELECTRONIC LANGUAGE TRANSLATION
- NUCLEAR ENERGY APPLICATIONS
- APPLIED MATHEMATICS
- BASIC AND APPLIED PHYSICAL RESEARCH

Appointments for interviews on Monday and Tuesday, February 2-3, can be arranged through the Student Placement Center.

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Emery Cautious as A.A.U. Meet Nears

Although the first swimming meet of the year for the Caltech team isn't until February 13, the individual members have been working out regularly to get in shape for the promising season ahead.

Some of the team members will participate in the A.A.U. meet at Beverly Hills High on February 8. The competition in this meet will be solely on an individual basis, with medals going to the winners.

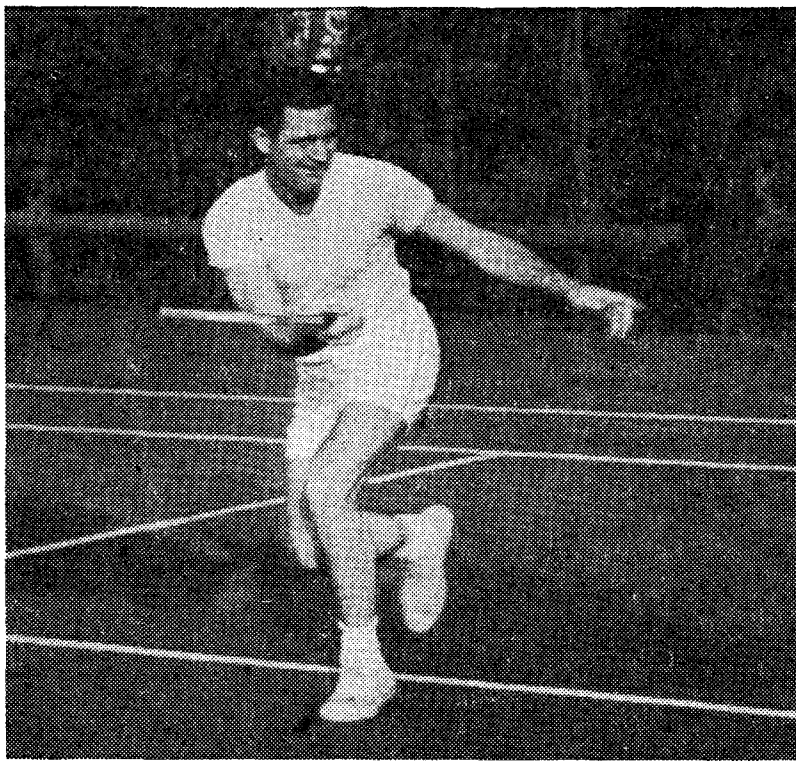
Coach Webb Emery feels the meet should provide the boys with experience against very good opponents as well as giving them a chance to garner personal honors.

Keith Brown, the Tech freestyle sprint specialist will be entered, as well as Don Owings, star in the breast stroke and butterfly. Up from last year's frosh and showing great promise for the team are Gary Tibbits in the distance freestyle, and John Erskine in the back stroke. Also entered in the A.A.U. meet will be Roger Bland, Gary Turner and Gary Mitchell.

Pomona to be Tough

Pomona, who last year when united with Claremont, won the Conference meet should be really tough, he thinks. Whit tier, bolstered by several junior college transfer students also threatens to take the number one laurels, and even Occidental rates as a dark horse contender.

In true coaching fashion, Coach Emery declined to forecast how he felt the team would be in league competition. "We have a good team this year and if everyone gets in top knotch shape, we should be pretty well rounded," he said.



John Walsh of Ricketts shows style that led him to first place in last Saturday's Interhouse tennis tourney's top division. Dabney won with 35 total points to 24 for second-place Ricketts.

Scores

vs. Cal Poly			
	FG	FT	F
Brown	3	0	1
Maley	1	2	2
Stene	6	4	5
Shampine	1	4	2
McClure	1	1	5
Arps	1	0	3
Holland	3	6	4
Blakemore	1	4	0
Ripka	0	2	1

Vs. Claremont

	F.G.	F.T.	F.
Brown	3	0	1
Shampine	2	1	3
Maley	0	2	2
McClure	2	1	2
Holland	4	4	1
Stene	4	5	4
Ripka	3	1	1

Vs. Occidental

	F.G.	F.T.	F.
Brown	3	2	4
Maley	3	4	2
Stene	5	4	4
Shampine	3	2	0
McClure	2	5	2
Holland	1	5	3
Blakemore	5	1	3

Notice

All candidates for the freshman and varsity baseball should report to the gymnasium lecture room Thursday, Feb. 4, at 11 a.m.

Press Explains Test Detection

(Continued from page 1)

work done in this field. I am optimistic that as we learn more we can make up the losses in capability," he said.

Press explained that the basic seismological problem is to differentiate between earthquakes and nuclear blasts of the same energy yield. This can be done by observing the characteristics of the first seismic waves to reach the detection center. The fall series—known as the Hardtack II tests—produced more data on the amplitude falloff with distance and the amplitude vs. yield characteristics of underground nuclear explosions.

Press said that the new information indicated that more detection stations using present techniques would be necessary to bring the system back up to the Geneva estimates, but pointed out the U.S.S.R. is opposed to the addition of any more stations.

The solution to this problem, he re-emphasized, can be found in improving the proposed detection system through continued research.

Brainwashing

(Continued from page 1)

the Geology Club Wednesday at noon.

In his speeches while on campus, Burton will concentrate on the problems the Reds face in governing 650 million people, governing 650 million people, and how they try to get along with foreign countries.

Interview Schedule

Fri. 30—Douglas Aircraft, American Potash and Chemical, Varian Associates (no summer), Space Technology Lab (no summer), U. S. Coast and Geodetic Survey.

Mon. 2—Texas Company, USC Engineering Center, Atlantic Research Corporation, Dorr-Oliver Company, Ramo-Wooldrige.

Tues. 3—Ramo-Wooldrige, Marquardt Aircraft (no summer), G. M. Giannini & Co.

Wed. 4—Marquardt Aircraft (no summer), Shell Oil.

Thurs. 5—Hewlett - Packard, ALCOA (no summer).

Fri. 6—Telemeter Magnetics, General Mills Mechanical Division, Microwave Engineering Lab.

CAGERS LOSE THREE

(Continued from page 7)

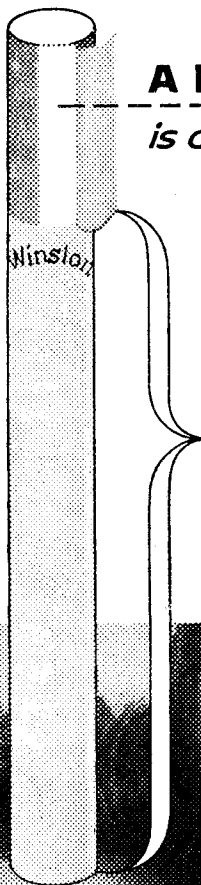
scorer Mike Murphy paced the winning rally with 20 points himself, and his aggressive play-making led to 18 and 15 points respectively by forwards Walt Jennings and Dave Whitener. Tall sophomore center Dave

Swan outplayed Tech's Bill McClure, controlling rebounds and contributing tip-ins as well as blocking many CIT shots in mid-air.

Captain John Stene was, as usual, Caltech's high scorer with 14 points, but most of these were

made early in the game on long set-shots.

Claremont-Mudd lead all the way to defeat CIT Saturday night, 55-50, at Claremont in a non-conference game. The Beavers looked tired, playing, as usual, their poorest against the weakest opposition.



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