

California Institute of Technology

Thursday, November 18, 1948

No. 7

Volume L.

## NEW COMET SEEN IN SOUTH



Photograph of new Comet Paraskevopoulos taken at 5:48 a.m. Pacific Daylight time November 10 with 18-inch Schmidt Camera at Palomar Observatory. Exposure time was five minutes.

## Paraskevopoulos Draws Crowd

The brightest comet seen in the Northern Hemisphere since 1927, the comet Paraskevopoulos, is drawing crowds of professional and amateur astronomers up to the top of Mt. Wilson, these early morning hours.

The 5:45 a.m. appearance of the comet in the east necessitates the "early to bed, early to rise," program of observing and photographing the new astronomical event.

For those who plan to join the expeditions in the small hours up L. A. Crest Highway, the comet may be located as follows: Look at the constellation Hydra, south of the first magnitude star Spica and very close to the third magnitude star gamma Hyræ; the planets Mercury and Venus are just north of the comet.

The comet is visible to the naked eye from elevated positions and away from the omnipresent Southern California smog, city lights, etc. Its tail is about 25 degrees long, and the head is about as bright as a second-magnitude star.

Until the orbit of the comet is completed, the actual direction it is moving with respect to the sun will not be known.

### Vets

Mrs. Collings, Veterans Coordinator, informs us that a Red Cross representative will be in room 102 Dabney each Tuesday afternoon from four to five o'clock. Photostatic copies of legal documents can be secured through her at no charge. Students are asked to pick up originals as soon as possible.

### Campus Calendar

**THURSDAY, NOV. 18—**  
12:00 Y Upperclass Luncheon at the Training Table.  
12:15 Throop Club Meeting.  
4:00 Interhouse Baseball, Blacker vs. Throop.  
7:25 Y Cabinet Meeting.  
7:30 Dancing Class, Culbertson.

**FRIDAY, NOV. 19—**  
4:00 Water Polo, Caltech vs. Occidental at Occidental.  
4:00 Cross Country, Caltech Varsity and Frosh vs. Redlands at Redlands.

7:30 Demonstration lecture, "Are We In For a Long Drought," Prof. Franklin Thomas, 201 Bridge.

7:30 Fleming Theatre Party.

8:30 Ricketts-Scripps Exchange Here.

**SATURDAY, NOV. 20—**  
10:00 Soccer, Caltech vs. Pepperdine at Tr. Park.  
8:00 Football, Caltech vs. Pepperdine at Wrigley Field.

**SUNDAY, NOV. 21—**  
7:00 Y Fireside.  
7:30 Caltech Musicals, Dabney Lounge.

**MONDAY, NOV. 22—**  
4:00 Interhouse Baseball, Fleming vs. Ricketts.

4:20 Interhouse Bowling, Pasadena Bowling Courts.

7:30 Y Forum, Dr. D. McHenry, "The Crisis in the U.N."

**TUESDAY, NOV. 23—**  
12:00 Y Frosh Luncheon at Training Table.

4:00 Interhouse Baseball, Dabney vs. Throop.

4:45 Water Polo, Caltech vs. San Jose, PCC Pool.

4:00 Cross Country, Caltech vs. Whitfield of Whittier.

7:30 Band Practice.

**WEDNESDAY, NOV. 24—**  
4:30 Alumni Placement Series, Dabney Lounge.

7:30 Fencing Class, Dabney Dining Hall.

7:30 Orchestra Practice, Culbertson.

9:00 Glee Club, Culbertson.

## AIEE Chapter To Sponsor G. E. Show On Light Phenomena

Have you seen a talking lamp? A shadow of the invisible? A cigarette lighted using 10,000 volts of electricity? These and many more breath-taking acts you will see before your very eyes December 2 in Culbertson Hall. Presented by the General Electric Lamp Dept., under the auspices of the AIEE, CES, and Electrical Engineering Dept., this demonstration of the wonders of light should prove to be one of the most interesting and informative shows of the year.

### Exhibits

And now in more detail is a preview of what you will see:

**The Talking Lamp**—By means of frequency modulation sound waves are superimposed on light waves so that a source of light actually becomes a radio broadcasting station, and music and sound are heard through a loudspeaker via an electric eye.

**The "Ukeliety"**—An unusual instrument, in the shape of the well-known ukulele, uses a variable resistance-capacitance circuit in order to make a neon lamp glow, the various tones or melodies produced by the rate of flashing.

**Building a "Mirror" Inside a Light Bulb**—The heat of a filament, placed inside a vacuum lamp, causes aluminum wire to vaporize and it in turn settles on the cooler inner surface of the bulb, thus forming a reflector.

**An Instantaneous "Picture With Light"**—A flashtube which stops extremely fast action, and a phosphorescent screen are employed to take a picture of the demonstrator. The action of smoke being blown across the screen is caught, and the picture is a life sized silhouette.

**Invisible Radiation Takes a Picture**—Again, on the same phosphorescent screen, a picture is taken with invisible infrared. When the demonstrator steps away, instead of a dark shadow and a light screen as we have with the flashtube, there is now a light shadow and a relatively dark screen.

### Three Shows

Due to the large amount of interest already shown for this presentation, three shows are scheduled, each lasting close to one hour: 3:00 and 4:30 p.m. for students, and another at 8:00 p.m. for local residents and dates.

## Student Papers To Be Topic Of ASCE

A meeting of the ASCE Student Chapter will be held on Friday morning at 11:00 a.m. in 208 Throop.

### Student Papers

Several important items will be discussed at the meeting, to include preliminary discussion of the student paper contest to be held at the regional meeting of the ASCE Senior Chapters in San Diego, on March 25 and 26, next; plus another contest sponsored by the American Association of State Highway Officials to stimulate interest in highway engineering. Both contests award prizes to outstanding student papers, and consideration of them is to be encouraged at the meeting.

### Film

The business meeting will be followed by a film showing the new "Tilt-Up" process of concrete wall construction. The members of the society observed this method in operation on a field trip held two weeks ago at the new warehouses being constructed by Reliance Engineering Co., for Westinghouse Electric Co., on Soto St. in Los Angeles. All those who are interested in seeing an entirely new process in building construction, one which is gaining favor due to its speed and economy, are invited to attend the showing of this film furnished by the Portland Cement Association.

### Placers

George Brown and Leo Breiman made the semi finals in Discussion and Brown also made the finals in Extempore with his talk, "Is the world ready for peace?" Finals of Discussion in the lower division were reached by Allen Beck and Ulrich Merten.

### More Debate

This week Caltech will be represented by Allen Beck and Ray Brown in an invitational debate with Pasadena City College on the question of "Federal Aid."

## Alumni Association Hails '49 Class Gift

This week Chuck Forester, well-known president of this year's senior class, received a copy of a resolution passed by the Board of Directors of the Caltech Alumni Association at its meeting October 19th. Contents of the resolution, which may come as a shock to some members of the class of '49, speak for themselves:

### Resolution

Whereas, the Class of 1949; California Institute of Technology, voted on October 18, 1948, to contribute \$500 to the Alumni Fund in June 1949, and

Whereas, the Class of 1949 recognizes the objective of the Alumni Fund is the development of facilities in Tournament Park and particularly the establishment of a gymnasium, and

Wheras, said class has further proposed the establishment of a traditional fund-raising dance as a Faculty, Alumni, Graduate Student, and Undergraduate Student Affair;

Now, Therefore, Be It Resolved, that the Board of Directors of the Alumni Association, California Institute of Technology, in regular meeting assembled this nineteenth day of October, Nineteen Hundred and Forty Eight, express to the Class of 1949 of the California Institute of Technology the sincere appreciation of the Association for their outstanding proposal for support of the Alumni Fund by their financial contribution and a further means of raising funds, and

Be It Further Resolved, that the Secretary of the Association be instructed to prepare and send this resolution to the Class of 1949 through its President.

Howard B. Lewis  
President  
Donald S. Clark  
Secretary

## ASMEites Visit Jackson Plant

The Byron Jackson Co. in Los Angeles was host to the first ASME field trip this year. Last Friday afternoon Professor Hollander, who is a consulting engineer and former chief engineer for that company, and thirty eager students toured the oilwell tool and manufacturing plant and the pump testing lab. Mr. Jurling, an old Tech grad and Assistant Chief Engineer, along with several other engineers and salesmen answered the many questions and guided the students to the more interesting portions of the production line.

### First Stop

The first stop was the oil drilling tool shop where the company produces elevators, tongs, hooks, and links. All were properly impressed with the large array of electric furnaces and the huge drop forge. The visitors were treated to an oil drilling demonstration, using the equipment they had just seen produced, on the company's test drilling rig.

Next the tour took the members through the plant in which the new and revolutionary submersible pump is being produced.

### Testing

Then the Techmen were escorted across the street to the pump testing lab. Many pumps were being tested in the huge, swimming-pool-like testing tank. The students took particular interest in the ingenious double case type pump. Also seen were some 16 million gallons per day, 6000 Hp. pumps to be used on the Arabian oil pipe line.

Field trips to the Jet Propulsion Lab, and to the C. F. Braun Co. are planned for the near future. For an inside view of industry and a chance to meet prominent, progressive engineers, see Sam Fong in Dabney 30 and join the ASME.

## Annual Frosh Soph Dance Features Hal Lomen's Music

**Frosh Pick Up the Tab at the Post-Mudeo Dance; Large Turnout Fills Dabney Lounge Friday Night**

The Freshmen and Sophomores got together last Friday night for the annual Frosh-Soph dance, and from 9:00 to 12:00 in the Dabney Lounge Hal Lomen's band furnished some very mellow music. There was a good turnout from both classes.

Gratis

The Sophs attended gratis due to the kindness of the Frosh, and the fact that they won the Mudeo last week. Most of the fellows hope that the last of the mud will wear off by next year.

### Refreshments

Refreshments were served and evidently were pretty good, as the punch and doughnut supply had to be replenished most of the time. Hal Lomen's music was really very fine as most of the couples were dancing all the time. Everyone seemed to have a fine time, and the affair was very successful. Peace once more reigns between Sophs and Frosh.

### AFTERMATH



Ralph (don't you recognize him) Lovberg in his official capacity as a judge at last week's mudeo.

## Tech Y Announces Asilomar Conference

An unparalleled opportunity to spend six days of the Christmas holidays in a most profitable manner in beautiful surroundings and with most pleasant company awaits a few fortunate students on the Tech campus this fall. Asilomar, a student-faculty conference sponsored by the Student YWCA and YMCA will provide this chance.

From Dec. 26 to Jan. 1 400 fellows and girls from Hawaii, Arizona, Nevada and California will gather at Asilomar on Monterey Bay 350 miles north of Los Angeles for study, discussion, worship and fellowship.

### Opportunity

An opportunity to grapple with questions about life that profoundly disturb mankind today will be available to all students fortunate enough to be present for the conference. An outstanding group of adult leaders will highlight the program as daily addresses featuring relevant interpretations of the Christian faith and subsequent study groups will make worthwhile every day at Asilomar.

Can we build a unified, cooperating world order or are we destined to destruction?

Are there resources available to enable us to live with inner security and serenity and yet be profoundly aware of and deeply sensitive to the desperation of our fellow men?

Questions such as these and others will provide material for the various study groups.

### It Costs!

Twenty-two and a half dollars for room and board and a registration program fee of \$8.50 will bring the total cost to \$31.00. All interested students, graduate and undergraduate, are urged to seek more information from George Davenport, Vern Edwards, or Wes Hershey, YMCA Executive Secretary.

Deadline for registration is December first. Only 400 may attend—don't let those 13 days slip by.

### Pre-Registration...

The Registrar's office has announced that pre-registration for the second quarter will begin Monday, November 22. All Freshmen and Sophomores are requested to pre-register during the three days, November 22, 23, and 24. All pre-registration should be completed by December 3. Pre-registration cards are to be picked up in 119A Throop.

### WSSF

The WSSF drive goes into high gear this week as the houses valiantly try to outdo each other in the race for the prize the Y is offering.

The WSSF is an annual drive to provide medical aid, housing, books, and clothing for students in Europe and Asia.

As yet, returns are very incomplete, but Ricketts seems to have the edge in the race for amount collected per capita.

## AIEE To Present Movie For Dam Trip

A movie on the construction of Hoover Dam will be shown by the AIEE at 11 a.m. Mon., Nov. 22, in 201 Bridge. All those planning to participate in the Hoover Dam field trip are urgently requested to attend, as final arrangements, and payments for transportation will be made at that time. See you there!

### HELP!

We need men to work on the Copy Staff of the California Tech. If you are interested, come to the Tech office Monday night about 8:30.

# The California Tech

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## THE SQUARES' CIRCLE

### Suggestion

Editor, California Tech

Caltech

Dear Editor:

Last Saturday evening an incident occurred at the Rose Bowl of which we have little reason to be proud. It was not an isolated incident, but one which has been apparent at many of our football games. After almost the entire Redlands cheering section stood quietly while Tech sang its Alma Mater, only about twenty-four Tech men and dates waited for Redlands to finish theirs. This action would hardly be considered the ultimate in courtesy. Redlands must have been highly pleased. If a suggestion might be made, why not bring to the attention of the student body the fact that, at the Rose Bowl, we are hosts and should show our guests courtesy accordingly, and at other schools, we are guests and should act as such. We might then begin to make a favorable impression on the schools with whom we come in contact.

Yours sincerely,  
G. M. Arcand  
F. B. Humphrey  
H. F. Stoddart

### THANKS

Dear Editors:

So often here appreciation is never voiced when appreciation is felt. However I wish to thank you for publishing the program for the coming week of the Gas Company's Evening Concert, and hope that this will be continued. Thanks again.

Sincerely,  
Bill Ramsey

### Homecoming Dance

Ricketts House

15 November 1948

To the Editor, California Tech:

Elsewhere in this issue is a report of a resolution sent to me as President of the Class of 1949, which expresses the appreciation of the Alumni Association for

the contribution of five hundred dollars, voted by the most generous class in the history of the Institute, on the 18th of October for donation as a class gift to the Alumni Association Gymnasium Fund. This one item needs little explanation, for it simply means that instead of buying Rhododendron bulbs for some secluded spot on campus, and burying them at some touching, unheralded ceremony, the class has decided to contribute five hundred clams to a darn worthy cause.

The resolution, however, goes on to mention another proposal which will not be so clear to those who read it, and it is my desire to clarify this point, and invite discussion of the idea which is responsible for this part of the resolution. Bob Pilling made the suggestion to me following the class meeting that it might be a good idea to sponsor a BIG dance which would have as its purpose the raising of funds for the Gym. Since it seemed like an idea worth considering, I mentioned it in a letter which we wrote to Mr. Howard Lewis, President of the Alumni Association, and the reference to the "traditional, fund-raising dance as a Faculty, Alumni, Graduate and Undergraduate Student affair" is the result.

It is traditional at nearly every college in this country to have some kind of a "homecoming" affair. Such a function is conspicuous by its absence at this snake pit with ice-plant, and it seems obvious to any casual observer that it is about time that something be done about it. It is my belief that the Alumni Gym Fund serves as a natural dition which could do everyone, for the establishment of a tra-alumni and students and faculty alike, a lot of good. Since we are all desirous of seeing the gymnasium built as soon as possible, a big, and I mean BIG dance, which would have as its primary purpose the raising of funds for the Gym, is well worth considering. Such a dance, if

(Continued on Page 6)

## An Editorial

### Snakes...

Every now and then we hear talk about "snakes" spending too much time with their books. At every school election there are criticisms of the poor vote. Too many people seem to be too busy to take the time. Every football season someone bemoans the small turnout at the games. Those that do go to the games don't seem to have enough spirit.

There is also the other side, those who say they came here to learn something and want no part of anything not connected with their studies. There are some men at this school who may plan to marry some day, but right now feel that they are too busy with their books to even think of going out on a date.

Whatever you may think about such actions, you must remember that many of our students are very anxious to become good engineers or scientists, and perhaps feel that they must forsake all other activities in order to achieve the goal they have set up for themselves.

In a recent issue of The Tech, the school newspaper of M.I.T., there appeared a letter from a self-satisfied snake defending his opinion. A defense of this position is seen so rarely, that we felt his letter deserved reprinting. As originally printed this letter ran to about 26 inches even though only excerpts were printed by the M.I.T. paper. Mr. Edmonds was rather repetitious in spots, so we felt justified in cutting a bit more from his letter in order to keep within the limits of space.

The editor of the M.I.T. Tech wrote a short commentary on this letter which we also feel is well worth printing. His critique is printed directly below the letter proper.

We would like to hear comments from our readers on the two points of view discussed in these excerpts. We have strong feelings on the subject ourselves, but would welcome any letters expressing either point of view. This seems to be a basic point in our school life. Are we to think of Caltech as just a mind mill or should we spend some time trying to develop our ability to live in the outside world?

\* \* \*

Editor, The Tech

Dear Sirs:

I am one of the students mentioned in your editorial in last Friday's issue of The Tech as coming to M.I.T. "planning to spend their lives holed up in a laboratory and only want to be left alone." . . . I would like to point out that in the first place I wonder how small the percentage of such students really is and in the second place that here is one such student who did read your editorial and was sufficiently aroused by it to take time out from his five-hours-per-night of studying to write this letter. . .

I have not voted in a single class election since my entrance into M.I.T., and I probably shall continue that record until I graduate, partly because I didn't know any of the candidates (a situation which I admit without regret is somewhat my fault) and partly because so called student government in my opinion ranks with cheering the old team and encouraging class spirit as institutions without which our state would be the more gracious. . .

I do feel compelling reasons for my studying five hours a night instead of three—or indeed for putting in six or seven hours if by so doing I could accomplish one iota more in the course I have set myself. And what's more I don't feel like an automaton and I don't feel frus-

trated, and I have every expectation of looking back on my years at M.I.T. as the happiest I have ever put in.

The reason is quite simple: Tech is giving me exactly what I want from it. I chose Tech in preference to any other college I could think of as much for its marked lack of organized activities, social side, and what is usually called class or school spirit as for its reputation as a superior scientific school. . .

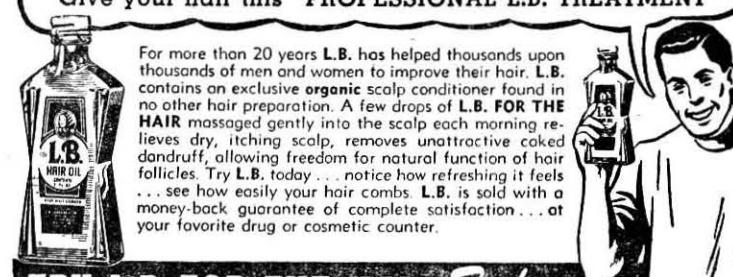
When I hear various agitators, among which The Tech has not been an insignificant offender, trying to change the situation to destroy the very essence of what I consider some of the best features of M.I.T.—I don't mind saying that I get rather incensed. . .

If you really can find Tech students who are frustrated and unhappy and are silly enough to blame M.I.T. for it in the first place and attempt to stay at M.I.T. in the second, then you must look for the root of evil in those students themselves. There is nothing forcing anybody to be frustrated or unhappy at Tech. There is instead every opportunity for the student to choose from, so that he may be satisfied, including the opportunity to go elsewhere if he doesn't like what is offered. If it so happens that he chooses to allocate 99.9 per cent of his time to do his studies, he should certainly

(Continued on Page 6)

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## • CAMPUS BREWINS

It gives us great pleasure to report the birth of a seven-pound male to Princess Elizabeth and Phillip, Duke of Edinburgh. We're reminded of the last time Man-O-War sired. We humbly suggest to the royal family that the infant be christened Prince Andrew of Phillip Out of Elizabeth. Jim Hendrickson, well-known in privy circles, was kind enough to inform us that this is the first male heir to be born of a female heir since the Battle of Hastings. (Frosh note.) We consider this a measure of our 20th Century tempo. We've almost caught up with the 11th Century.

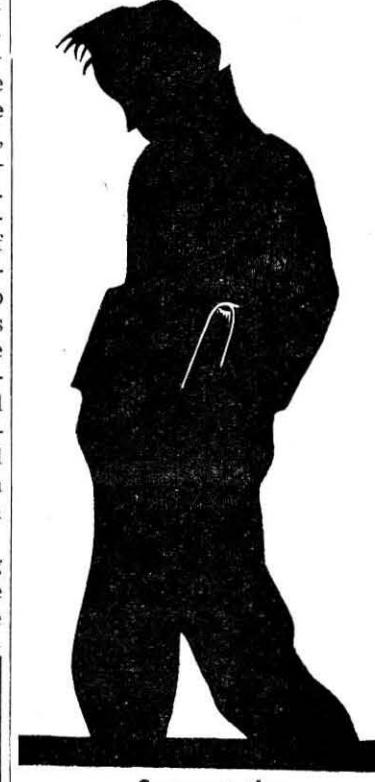
This new Oxy archetype seems at first horror almost more repulsive than Scripps. Rather than losing sleep over deciding which is the lesser of these evils, we arrive at the Markoff Solution: PCC. Forsaking Claremont, Dan took one of the children to the Redlands debacle. He reports a broadening experience.

**Ditching the books** Friday evening were a disgustingly respectable crowd—playing miniature golf. Palmer was, of course, with a different woman again. Curley claimed to be bitter about having his name juxtaposed to his rival's. Actually, he's sore because this week Alex is in. From a freshly-bagged Scripps covey at Dabney Friday, the Younger Royce's date was outstanding (large girl). Barmore, a lad with native abilities, seems to be wasting his talents out eastward. We suppose one must learn by experiences.

**Back in Fleming**, Al Haber was seen with a striking number. He was so struck, that he requested use of the aprodisial Duesenberg for a Hamlet Party tomorrow night.

(Continued on Page 3)

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Tomorrow...  
TODAY**



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on California Near Lake

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**CAMPUS BREWINS**

(Continued from Page 2)

Around 11:00 still Friday night C. Price was seen entering Kerchoff avec femme. When questioned, the seeker of knowledge forthrightly declared his intents were innoculations. Our firm opinion is that biologists only look bovine.

**Al Sereno** has become homesick for palm-fringed isles, paddle boards, ukuleles, and smartly tanned wahines. He and a charming Hawaiian lass are drowning their loneliness together. Touching.

**Ricketts** has touched our hearts by founding a new organization; which in number and spirit will soon surpass the Beavers, YMCA, PBAA, and the Three o'Clock Koffee Klatsch. This is the Washington Monument Club, open to all members who have been shafted by

**Dabney Holds Party For Campus Girls**

The Dabney House social program swings into high gear this Friday with a party for the girls on campus. Tiring of months of unproductive drooling at the many toothsome morsels who daily inhabit our campus, the Dabney boys have finally decided to break the ice and get acquainted with the girls.

**Mixer**

The Friday night shindig should do the trick, for it promises to be a gay, roisterous evening. Besides the traditional

Schmipps. Founders are Bradley and Drapes. Ollie Gardner is, of course, first honorary member. Dan King is expected to join soon.

dancing and refreshments, the social committee has cooked up a show that is almost inconceivable in scope, variety, and ennui.

To achieve this much-sought-after end, invitations have been passed out to every girl on campus who combined the desirable qualities of freedom from marital entanglements and age less than or equal to that of the oldest greybeards in Dabney.

**Response**

So far, the returns have been phenomenally encouraging, the girls evidently taking as much interest in this sort of thing as the Dabneyites. Hope runs high that this get-together will lead to closer, and even more pleasant relations between the students and the charmers who toil nearby.

**Mixer Dance Set For Blacker Social**

Blackerites will be treated to a real old-fashioned Mixer Dance tomorrow night. Girls from Oxy, Huntington Hospital, P.C.C., Scripps, and John Muir will dance to the sweet strains of Blacker's excellent record collection.

After the furious social pace of the last week, the social committee looks forward to the Thanksgiving layoff as an opportunity to plan Blacker's "Christmas Dinner and Formal," another one of the House's "events to be remembered." This dance will be a fitting climax to this term's social activities.

**THE EVENING CONCERT**

Presented by the Southern California and Southern Counties Gas Companies Radio Station KFAC

8-10 p.m.

**Program for the Coming Week**

THURSDAY, NOVEMBER 18, 1948

PRAELUDIUM AND ALLEGRO IN E MINOR, by Kreisler. Indianapolis Symphony Orchestra conducted by Fabien Sevitzky (6). SYMPHONY No. 35 IN D MAJOR (HAFFNER) K. 385, by Mozart. NBC Symphony Orchestra conducted by Arturo Toscanini (18). MARCEL GRANDJANY, HARPIST (27). SELECTIONS.

DIVERTIMENTO No. 17 IN D MAJOR (K. 334), by Mozart. London Philharmonic Orchestra conducted by Sir Hamilton Harty (25). TRISTAN AND ISOLDE—SYMPHONIC SYNTHESIS, by Wagner-Stokowski. Philadelphia Orchestra conducted by Leopold Stokowski (34).

FRIDAY, NOVEMBER 19, 1948

Weekly Feature Concert—A Night at the Ballet THE FAIRY'S KISS BALLET—DIVERTIMENTO, by Stravinsky. Symphony Orchestra conducted by Igor Stravinsky (24). THE SLEEPING BEAUTY (COMPLETE), by Tchaikovsky. Symphony Orchestra conducted by Leopold Stokowski (52). GRADUATION BALL, by Johann Strauss-Dorati. Dallas Symphony Orchestra conducted by Antal Dorati (30). COPPELIA—BALLET SUITE, by Delibes. Boston "Pops" Orchestra conducted by Arthur Fiedler (7).

SATURDAY, NOVEMBER 20, 1948

RIGOLETTO, by Verdi. Famous Soloists, Chorus and Orchestra of La Scala, Milan, conducted by Lorenzo Molajoli.

MONDAY, NOVEMBER 22, 1948

JUBILEE OVERTURE, by Weber. Minneapolis Symphony Orchestra conducted by Dimitri Mitropoulos (8). SYMPHONY No. 2 IN D MAJOR by Beethoven. Pittsburgh Symphony Orchestra conducted by Fritz Reiner (28). EILEEN JOYCE, PIANIST. CONCERTO FOR PIANO AND ORCHESTRA, by Shostakovich (20). SYMPHONIC VARIATIONS, by Franck (15). DAPHNIS AND CHLOE—SUITES 1 AND 2, by Ravel. Paris Conservatory Orchestra conducted by Charles Munch (24). OLD DANCES AND AIRS by Respighi. Symphony Orchestra conducted by Sergio Faloni (16).

TUESDAY NOVEMBER 23, 1948

SICILIAN VESPERS—OVERTURE, by Verdi. Symphony Orchestra of The Augusteo, Rome, conducted by Victor de Sabata (8). SYMPHONY No. 2 IN E FLAT MAJOR, by Elgar. B.B.C. Symphony Orchestra conducted by Sir Adrian Boult (52).

ALBERT SPALDING, VIOLINIST (18). SELECTIONS.

COMUS BALLET, by Purcell. The Halle Orchestra conducted by Constant Lambert (14).

WEDNESDAY, NOVEMBER 24, 1948

1812 OVERTURE, by Tchaikovsky. The Philharmonic Orchestra conducted by Nicolai Malko (15). SYMPHONY No. 1 IN C MAJOR, by Bizet. London Philharmonic Orchestra conducted by Walter Goehr (27). BENIAMINO GIGLI, TENOR (29). SELECTIONS.

ROMAN FESTIVAL, by Respighi. Philadelphia Orchestra conducted by Eugene Ormandy (25).

LE CID—BALLET MUSIC, by Massenet. New Symphony Orchestra conducted by John Barbirolli (15).

**Sunday Musicale Program**

Sunday, November 21, 1948, Dabney Lounge

Bach—Suite No. 2 for Flute and Strings

Brahms—Symphony No. 4

Mozart—3 Selections from the "Requiem"

Beethoven—"Appassionata" Piano Sonata

Mussolini—The Steel Foundry

Alex Stolov will give brief introductions and sidelights to the compositions.

**Musical Baedecker**

The 1948-49 season of the Los Angeles Philharmonic opened last Thursday with what might be called, or at least interpreted as a warmup concert. The orchestra was certainly not at the peak it reached during the last concerts of the 1947-48 season, but performances such as Wallenstein gave the Rachmaninoff Second Symphony last spring could hardly be expected the first concert of the year.

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PLUS ANOTHER GREAT HIT!



Day, the concert opened with the short tonal piece, "In Memoriam: The Colored Soldiers Who Died for Democracy," by William Grant Still. The work utilizes the Negro folk idiom extensively, blending it moderately with modern devices to produce sincere, unpretentious, very listenable music.

Aaron Copland, in his notes to his Third Symphony, the next work on the program, stated that "any references to jazz or folk material is merely unconscious." The folk material was actually quite well purged, and the jazz idiom succeeded in breaking into the symphony only once—in the fanfare at the beginning of the fourth movement. The absence of both of these overworked sources of inspiration, especially in Copland, was quite refreshing.

The presence of both William Grant Still and Copland at the concert seemed to have a beneficial effect on the orchestra, for the two opening works, with the exception of one or two unsure bars in the climactic ending of the scherzo, were executed with excellent dynamics.

**TYPING****THESES**

MANUSCRIPTS PAPERS  
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WHEN YOU ARE THIRSTY  
or  
WHEN YOU JUST  
NEED RELAXATION

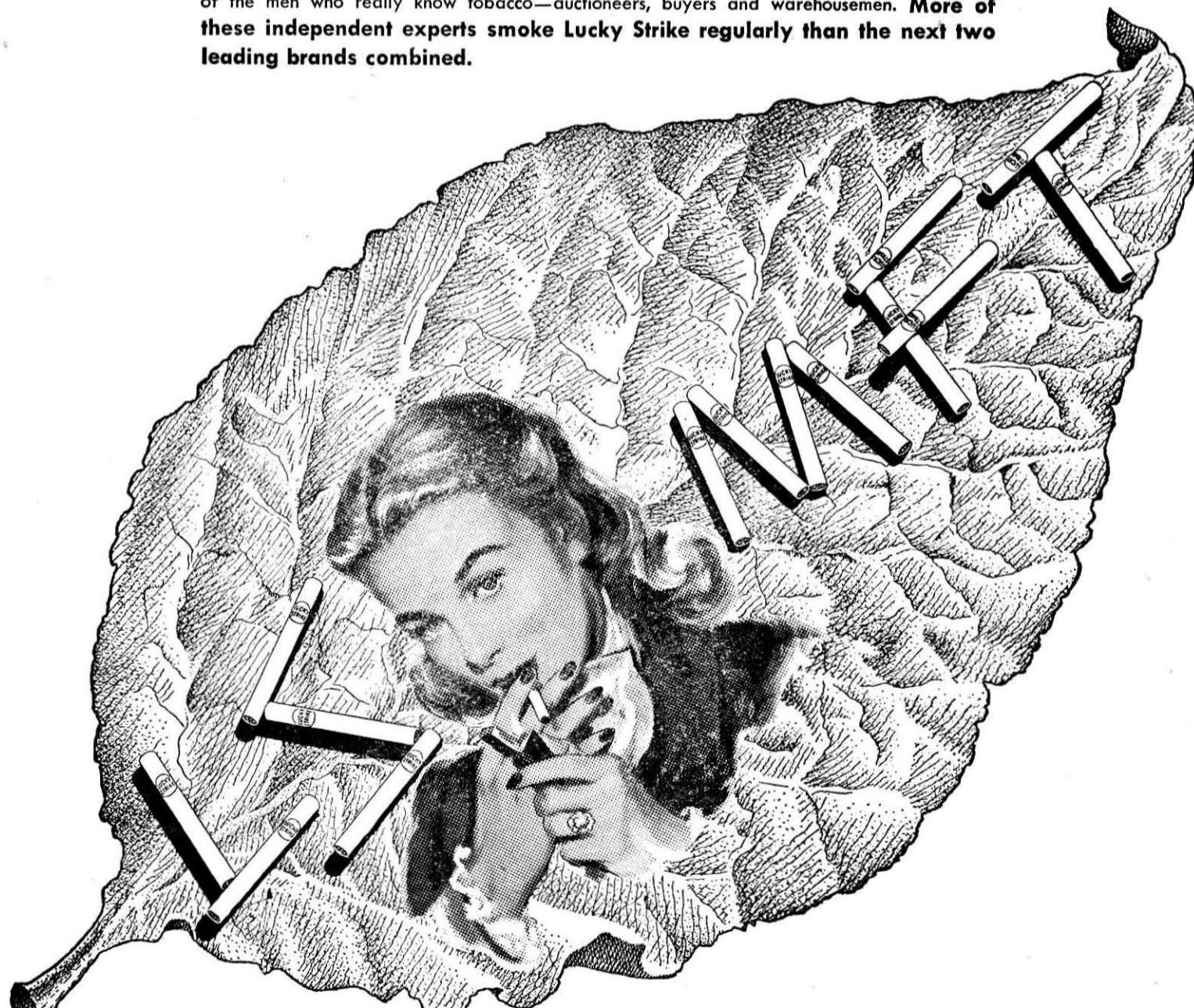
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## Who Dealt This Mess

By Carl Fox

S	7	5	4
H	A	5	4
D	A	J	7
C	K	J	5
S	K	10	3
H	J	10	9
D	8	3	2
C	10	3	

S	9	6	2
H	2	E	
D	10	9	6
C	8	7	6

North-South Vulnerable.

Dealer—South

Bidding	S	W	N
1C	P	P	E
3NT	P	P	4C
4NT	P	P	5H
5NT	P	P	6D

South's excellent bidding is

worthy of mention. The hand is

too weak for an opening two-bid

and too strong for one No Trump. Three No Trump is the

perfect rebid since it shows five

honor count with both unbid

suits well stopped. With this

strength in his partner's hand

North cannot let the bidding die;

he must invite to slam.

West opens the Heart Jack.

## Shavings... From The Board

A minor miracle happened last Thursday night when no less than five interested students showed up at the Board of Directors meeting in Lower Fleming. It could be that the song leader issue has raised some curiosity as to what does go on at the weekly meetings; or perhaps the visitors didn't have anything else to do.

### Come Again

At any rate, such a gesture deserves recognition and encouragement. For those who do not yet know, all board meetings are open to the general student body, and may I once more extend a cordial welcome to anyone who feels the impulse to attend. Meetings start at 7:15 Thursday nights.

### Campus Drives

Among other items last Thursday, the question came up of student support for the various drives which are conducted on campus. Each year students are asked to contribute to the Red Cross, the Community Chest, the tuberculosis fund, WSSF, the campus Y, and other organizations, all of which are no doubt very worthwhile.

But because they are so numerous, and because many of the students are unable to contribute, the question arose as to whether it might not be better to establish a policy towards all drives. Pomona for instance allows no solicitations on campus.

### Support Which?

It was thought by the board that student-sponsored drives such as the WSSF and the campus Y drive certainly deserve full support. How many of the others should be included is the moot question. The opinion was expressed that by excluding some and concentrating on others the net benefit might be increased. If there weren't so many drives students would be more willing to support those which were conducted.

### Public Opinion

One aspect to consider in excluding any charitable drive is the effect which such action would have on the good name of the school. Certainly Caltech is in no position to ignore public opinion; on the contrary, much of the school's future development depends on the good will which we can create today.

If anyone feels strongly concerning this problem he should attend the board meeting tonight at 7:15. Your ideas will be gladly welcomed.

Declarer can count eleven tricks, twelve if Hearts split or if the Spade finesse holds. But without relinquishing either line of play there is still a third alternative, a variety of end play, the break-in.

Winning the Heart with the Queen, Declarer runs four Club tricks. West is forced to discard twice and gives up a Diamond and a Spade. Now the running of three Diamond tricks forces another West discard, the ten of Hearts. The lead of a Heart to the King shows East to be out and allows Declarer to completely count the West hand, two Hearts and two Spades; West has shown out of both Clubs and Diamonds, there are two Hearts out, and East is void in this suit.

Now, although the Hearts have not split, there is no need to take the finesse in Spades and pray. Declarer merely leads to the Heart Ace and returns the remaining Heart, discarding the eight of Spades and giving West the lead. West must lead Spades up to South's Ace-Queen and it makes no difference who has the King.

## The Front Burner

If you like to solve "who-dones-it" we recommend "An Inspector Calls," but not in the ordinary sense; for J. B. Priestley's drama now at the Pasadena Playhouse is not a murder mystery. The audience participation in solving a non-existent murder provides interesting entertainment.

### Sledge-Hammer

As we fully expected, Mr. Priestley drives home a social moral with almost unkind ferocity. We very much regret that the playwright uses the stage to expound his particular brand of socialism so consistently. It is rarely amusing to be hit on the head with a sledge-hammer when trying to be a passive spectator.

With social morals to teach, "An Inspector Calls" might well be an example of Priestley's social consciousness. But as a play it more than justifies an occasion to use the sledge-hammer of Mr. Priestley.

### Production Adequate

The production of the play was adequate as is usual at the Playhouse. If we were throwing orchids around, we would certainly start with Thomas Browne Henry. His portrayal of the Inspector was well sustained and decidedly the focal point of interest. Unfortunately the Inspector must deliver Mr. Priestley's message. In spite of this handicap, Mr. Henry is to our way of thinking a superb Inspector and carries the play entirely on his shoulders.

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## Tech Sailing Club To Be Reorganized Under C. B. Millikan

This evening, Thursday, Nov. 18, at 7:00 p.m., there will be held in room 42 Blacker the first meeting to reorganize the Caltech sailing club. This meeting will serve to put the organization in a position to represent the college in dealing with other schools in the matter of racing.

### Faculty Advisor

Dr. Clarke B. Millikan has already consented to be the faculty advisor for the club. He is well qualified, owning his own Rhodes at the present time, and having years of experience in sailing behind him.

The sailing club will have the privilege of challenging all the member clubs of the Southern California Schools Racing Association. Races will be held at Newport, and once the challenge has been accepted by the school concerned and approved by the race committee, boats will be provided.

### Gala Regatta

A gala Christmas regatta is planned, with schools such as Stanford, U.S.C., U.C.L.A. and others competing.

So, if you are interested in racing sailing, come to the meeting in 42 Blacker tonight.

## Records Broken In IH Bowling Contest

Throop Club came through with victories in seven out of eight games in this week's Interhouse bowling to move past winless Dabney into second place. Blacker won six games, Ricketts won five, and Fleming won two as other standings remained unchanged.

House	Won	Lost	Pct.	Ave.
Ricketts	27	13	.675	153
Throop	24	16	.600	148
Dabney	19	21	.475	128
Blacker	18	22	.450	133
Fleming	12	28	.300	128

Two new season records were set by a hot Throop No. 2 outfit as they fired a big 2198 team series and 800 team game.

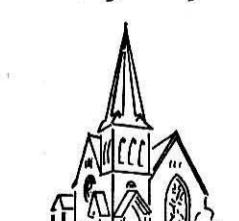
### Records

A new season record for individual series was also set by Woody Bratnaber of Ricketts with games of 224-178-197 for a 599 total. Ray Heggland of Throop sparked Throop No. Two's big effort with 167-185-212-564.

### Support

The support is only brilliant at moments—one hardly need shade his face from the glare. Clark Howat does relatively well as Eric, and really scores in the only convincing emotional scene of the play. Not that we found emotion lacking. The rest of the cast seems to control their emotions with a light switch. Either the light is on most of the time, or it merely flashes. Toni Newman tried to be desperately convincing. David Lawrence only clicked the switch on and off.

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## Tech Bowlers Bow To USC

Caltech's bowling team lost a close matc hto a strike-happy U.S.C. outfit this Sunday evening at the Pasadena Bowling Courts. A fantastic barrage of strikes in the middle of the second game, with 11 out of 12 consecutive Trojan frames containing big "X's", provided the enemy with a lead which Tech could not quite whittle away.

### Close

Tech won the first and last games, but lost total pins by a mere 25 pins, as Troy racked up an 880 second game, by far the best of the match.

Tech's Woody Bratnaber finished with the best series of the match, 540, but could not come through with a much-needed "turkey" in the last frame of the last game.

### High Scores

Dick Harper had high series for the winners, 532; while Troy's Dick Palmer fired the highest game of the match by starting off with six strikes, then running into nothing but trouble in the form of splits and misses to wind up with an even 200.

### Individual scores:

	CALTECH
Ray Heggland	161-161-175-497
Carl Fox	113-151-125-389
Andy Check	168-155-160-483
Bob Benton	172-141-164-477
Woody Bratnaber	181-193-166-540
TOTAL	797-801-788-2386

### U.S.C.

Al Money	166-165-146-477
Bill Randle	126-145-165-436
Dick Harper	157-195-180-532
Dick Palmer	149-200-151-500
Rick Glasman	158-181-127-466

TOTAL ..... 756-886-769-2411

### Return Match

Tech will have a chance at revenge this coming Sunday night as they travel to Los Angeles to meet U.S.C. on their home alleys, the Trojan Bowl on South Vermont at 7:30 p.m. The Tech line-up will remain the same as for the first match.

## Gray Pitches Red To Second Shutout In IH Baseball

### Editor's Note:

The following was written by a Fleming man before Tuesday's game. The opinions expressed here are those of Fleming.

With the first week of inter-house baseball concluded, the "Pros" from Fleming seem to have the title sewed up. The Red machine shut-out both Dabney and Throop by respective scores of 14 and 15. The major reason for this somewhat amazing scoring spree seems to be the result of one man, Norman Gray. Norm and his twirling have made the Fleming team; no one seems to be able to hit the lad. Mr. Gray had one tremendous advantage over every other pitcher, he could find the plate for the majority of the time.

### High Scores

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TOTAL	797-801-788-2386

### U.S.C.

Al Money
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**Talkin' It Over**  
With The Goon

As the noted sage of The Spring St. Bettor's Club said after the election, "I just don't know what to tell you, men." It's not the fact that we lost last Saturday night by a big score, or even that we got whipped by Redlands, who like us, had not won a conference game. It really grieved me to see that our squad had none of the fight and fire that they showed in the Oxy much to the dismay of Roy Dennis' ulcers. From the press box it looked like the Bulldogs could go just about where and when they pleased.

**Beak**

For a while there, I thought I was watching the Bruins play. No one was talking it up in the line. No one was getting sore. No one was getting ready to smear the next guy that tried to come through his hole. In fact, it looked as if no one out there even wanted to be out there in the first place. Surely you stalwart men of Tech aren't mad because the publicity department isn't giving you the All-American write-ups that you feel you deserve. Could it be that you didn't receive your monthly athletic scholarship. Maybe it was that you men have been staying up too late studying your plays. What ever the reason or reasons were it was a damn shame to see you play that way after the brilliant showing against the Tigers just two weeks before.

**Beak**

There were rumors just before the game that the spirit out on the practice field was low. When some of the key players were asked why they didn't do something to put a little p— and vinegar where it would do the most good they just said, "There's nothing I can do about it." That kind of attitude is really great.

**Gold Stars**

Want to pass out a few gold stars for some of the players' Uncle Whoa Bill Charts. Mighty

(Continued on Page 6)

## Tech Harriers Top Pomona

Caltech's varsity crosscountry squad last Friday afternoon outran Pomona's squad to score a total of 24 points over Pomona's 31 points. The meet was held on Pomona's own territory. The race covered a grueling 3 miles of pavement, gravel, grass and dirt. The time for the race, even under all of these handicaps, was very good.

**First Man**

The first man to cross the finish line was Caltech's Jack Marshall, finishing with a fast time of 17:06. Seven seconds later, Stokes of Pomona came in. Third man in was Pete Mason with a time of 17:16.

**Olshousen**, Pomona, crossed the line next with Dick Cornelius, CIT, right on his tail. The remainder of the first ten men in are in order: Snider (Pomona), Cobb (CIT), Peterson (CIT), Jackson (Pomona), and Brown (CIT).

**Only Tie**

The only tie of the race was between Jared Abell and Walt Edwards, both Tech men.

**Two Out of Three**

This is the second meet which the varsity has won out of the three that have been held. Two weeks ago, they romped over P. C. C. The second meet however was lost to U.S.C.

**Remaining Meets**

The remaining conference meets are as follows:

Fri., Nov. 19—Redlands at CIT.  
Tues., Nov. 23—CIT at Whittier.  
Sat., Dec. 4—Occidental, Redlands at CIT.  
Sat., Dec. 11—Conference meet at CIT.

**Mite Merle Kam**, the Honolulu Hustler, played a bang up ball game. This is his first season off of the line and if he keeps improving like he has so far Andy will have another top notch football player or two. Merle ran as if he meant to go through the Redshirts, hole or no hole, while his defensive play

(Continued on Page 6)

## Melon Mermen Lose To Flashy UCLAN Polo Squad

In a hard-fought, well-played, contest last Friday, the Tech water polo team was stopped not only by force of numbers, but by superior ability in a game with UCLA at the visitors pool.

The Beavers held their own during the first half against both the first and second Bruin strings, but as the game wore on, UCLA soon outscored the Tech Tanksters ending the game with an 11-7 lead.

**Tricky Bruins**

The Bruins used some remarkable plays which when coupled with the breaking and sprinting of their forwards and guards stormed the usually strong Beaver defenses. After the UCLA first string made 5 goals in succession during the third quarter, Coach Bill Dixon reshuffled his team. His purpose was accomplished as the mighty mermen from Pasadena powered across 4 straight tides.

**Libby Stars**

Reliable Dick Libbey scored in each quarter leading both sides for the day with 4 points. He was ably assisted by Waters, Hall and Palmer who racked up one goal each.

Tomorrow Tech plays the final conference game of the season with Occidental at the Tiger pool.

**Score:**

UCLA	2	3	5	1	11
CIT	1	2	1	3	

## Beavers Annex Cellar In 34-13 Loss To Redlands

The Redlands Bulldogs took the victory-starved Engineers to the cleaners last Saturday night under the arcs at the Rose Bowl to the tune of 34-13. The Beavers, picked to win in some circles, were unable to put together an inspired attack, and seemed equally impotent on defense.

Redlands, on the other hand capitalized on every break, and showed terrific power running the ends. The frozen few who showed up to cheer the Tech team Saturday could hardly recognize the Beaver eleven as the same boys who showed so well against Oxy.

**Bulldogs Draw Blood**

Redlands scored early in the first quarter on a 33 yard pass play from Simmons to Weaver. The Tech offense was slow getting started, and their first threat died young when Chuck Norman's pass to Don Baker, while good for 21 yards, was fumbled and taken over by Redlands. Hackleman of the Bulldogs scored four plays later.

The Engineers first TD was set up by the able punting of

(Continued on Page 6)

## Tech Soccer Team Drops Thriller To UCLA At Westwood

Saturday the Tech soccer men played their third game with U.C.L.A., the second at Westwood. Although the squad put up a good fight, the Bruins overwhelmed them 5-0.

**Solid Defense**

Tech's defense held solid in the first quarter, but in the second Gregorian of U.C.L.A. made the first goal. A second was made two minutes later by Partin, and shortly before the end of the quarter Partin made U.C.L.A.'s third.

**Defense Tightens**

After the half the Tech defense tightened, but the Bruin's Grau scored in the third quarter, followed in the fourth by Partin's second tally. The game was distinguished by fullback Dick Bennett's tremendous kicks, which gave the impression that he was trying to score from his own twenty yard line.

Lineup:	TECH	U.C.L.A.
Scantlin	G.	Svenson
Bennett	LF	Huttenback
Pyle	RF	Wilcox
Housman	LH	Salas
D. Madden	CH	Lentaris
Fairall	RH	Burg
P. Price	LW	Powell
Chong	LI	Sitting
Sichel	CF	Lindel
Houser	RI	Brignone
MacKenzie	RW	Suenas

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## Beavers In Grid Finale With Waves Bass, Hibbard, Funk, Long, Other Seniors In Last Tilt; Peps Favored

This Saturday night the Pepperdine Waves play hosts to the Engineers at Wrigley Field. And as usual Mason Anderson's charges will enter the fracas as definite underdogs.

**Bad Luck**

Previously the Waves have been undefeated when they meet the Engineers, but this year the Waves have had some bad luck, winning only two games; from Flagstaff Teachers and Fresno

State. The Waves will field their

usual team of big, rough, and highly experienced ball players.

And as usual Carwin Horn will lead the Pepperdine aggregation.

**Out of It**

Most of the fans will justly think that Tech is completely out of it. That is what everyone thought two years ago, when the Engineers went down to Inglewood to tackle an undefeated and Bowl-bound Waves. But at half time the Beavers were holding their own which was a great moral victory. Caltech has always held the reputation of pulling upsets all over the place and maybe something may happen on Saturday.

**Full Strength**

Coach Anderson will have a team which for the first time will be at full strength. In the line both Bass and Hibbard will be playing their usual fine brand of ball. And Andy will have a few more men to substitute than in previous games. In the backfield Funk, Norman, Sylves, and Baker will carry the load. But after what the reserves showed against Redlands; men such as Howard and Miller should see plenty of action.

**S.C.I.C. STANDINGS**

	W	L	Pct.
Occidental	4	0	1.000
Pomona	4	0	1.000
Whittier	1	2	0.333
Redlands	1	2	0.333
Caltech	0	4	0.000

**Games this week:**

Caltech vs. Pepperdine at Wrigley.

Pomona at Occidental

Whittier at Redlands

With the chances of victory very slim against the Waves, the Engineers will finish the season with one win and six loses. But the boys have played some good football in spite of being plagued by injuries.

Also Saturday night is the last collegiate football game for such standouts as Hibbard, Bass and Funk. Both Hibbard and Bass are sure things for spots on the All-Conference team and possibly for other honors. These boys could have made anyone's team and their departure will be a hard loss for the Beavers.

Remember the last game of the season at Wrigley Field at 8:15 against Pepperdine.

Lineup:	LER.	Carson
Hibbard	LTR.	Long
Bass	LGR.	Marks
Darms	C.	Funk
Bloom	QB.	Sylves
Norman	HB.	
Baker	FB.	

(Continued on Page 6)

**PIGSKIN PROGNOSTICATIONS**

GAME	ATHLETIC DEPARTMENT	SPORTS STAFF
California	Coach Anderson	Hal Musselman
Stanford		Goon Saltman
Pomona	Occidental	California 20
Occidental	2	Occidental 6
Harvard	Yale	California 7
Yale	1	Occidental 2
Purdue	Indiana	Pomona 2
Purdue	6	Harvard 2
N. Carolina	Duke	Purdue 6
N. Carolina	7	N. Carolina 14
N. Carolina	7	N. Carolina 14

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## SQUARE'S CIRCLE

(Continued from Page 2)

carried off successfully with the cooperation of all alumni, students, and faculty, in addition to its value as an outstanding social function, could serve three worthy purposes: (1) Raise funds directly, if a profit can be realized from the dance; (2) Serve as a "kick-off" for the Alumni Assn. Fund Campaign each year, until the gym is finally erected; and (3) Serve as a factor in promoting a closer Alumni-Student-Faculty relationship, which might in the course of events develop into some sort of a "homecoming" celebration.

I am throwing this ball into the ring, with the hope that the idea will find favor with a few on campus who might be willing to discuss the matter further, and work with the Senior Class, or any other campus organization which might be able to put this idea across. If we can knock ourselves out, and squander the House bank-rolls on the Interhouse Dance, in the fond hope that some publicity in a national magazine may result, we certainly can put the same energy to work in developing a basically good idea like this one, which will result in something really new and constructive on this moribund campus.

Get off your rusty-dusties, you characters, and let's kick this thing around, pro or con, and either make it a real project for the second or third term, or bury it. My room is Ricketts 3, and I'll be glad to discuss it with anyone at any time.

CHUCK FORESTER  
President, Senior Class

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## EDITORIAL

(Continued from Page 2)  
be allowed to do so, nor should he be the object of censure for such a choice.

Even if the faculty was as impersonal as it is made out, I would scarcely deplore the situation. The fact is, however, that the faculty will show interest in students that show interest in the faculty. I know that in the course of two years at M.I.T. I have been taught by some men to whom I came pretty close to giving the hero-worship that rabid sports fans give to their favorite players—if in a somewhat different way...

I feel that I have more pride and more real school spirit for M.I.T. than I have ever been able to arouse for any other organization anywhere, of any kind, at any time, even though I don't know the school songs and never cheer for any of the teams. Some day I hope to be an alumnus of Tech, and I shall be prouder of that status than of almost anything else I can think of...

Although I should very much wish any son of mine to go to Tech, he will never hear a whisper of that wish from me—his decision to be a Techman will be his own. In short, as long as certain persons fail to change Tech from a place of opportunity for intelligent individuals to a herding system for sheep, I shall remain a proud and happy and definitely not frustrated Tech-

man.

Very truly yours,  
Dean S. Edmonds, Jr., '50

\* \* \*

The letter printed in part above delineates a position no doubt held by a good number of men in the Institute. As such it is a valid opinion and deserves to be printed in reply to the editorial of two issues ago.

The essential weakness in the above argument is that it does not consider the degree of imagination and breadth of vision necessary to the character of good scientists and engineers. The analogy might be drawn to the highly skilled technician who by diligent study and emulation of his instructors may develop the ability to repeat and even slightly improve on the details of an operation. The really learned man on the other hand is not the slavish model of his precursors but the individual with the ability and background to develop ideas of his own. Merely attention to details and thorough knowledge of one subject does not give this background.

Many men are maimed at the Institute but many more are here to learn the studies and techniques for which Technology is justly famed. The main difference is that they are at college to develop not only the skills offered but the character to use them to the best advantage. It is the opinion of a good number of pedagogical experts that the experience gained in working

## BEAVERS ANNEX

(Continued from Page 5)

Manuel Bass, who put the Bulldogs on their 15 yard line early in the 3rd quarter. A holding penalty set the Redmen on their 1 yard line, and Craig Marks blocked the attempted punt. Noel Reed fell on the blocked punt on the 3 yard line, and Bobby Funk plunged over on the next play. Bob also split the uprights for the PAT.

## Redlands Again

Redlands scored their fourth TD on a 47 yard pass from Simmons to Hackleman. Tech rolled back on the ground with Don Baker and John Lewis packing the mail. Then Lewis passed to Don Hibbard who lateraled to Art Miller in a play good for 28 yards to the Redlands 12. Then as the fourth quarter started Lewis' next pass was intercepted on the Bulldog 3 and run out to their 30 yard line. The Redmen's attack was stopped on the Tech 40, but on the next play Corwin intercepted a Beaver pass and ran all the way for the final Bulldog score.

with others and for the school as well as the individual, is by far the greatest contribution of higher learning. The college years are still among the formative ones in life and a constructive life is hardly found by retiring behind the wall of indifference and denying the benefits of other classes of education aside from the more formal ones.

## TALKIN' IT OVER

(Continued from Page 5)

was marked by wanting to hurt somebody when he hit them. Chuz Howard, the prettiest man on campus next to the Schuse, also shows promise of rounding into a competent passer for next year. If Andy is smart some of the Sophs and Juniors that have been warming the bench will see lots of action against the Peps this Saturday.

This afternoon the melon pickers go forth into the Muir casaba patch to do battle on the hardwoods. With only eight actual days of practice under their belts they still ought to bring home a winner. Art Bruington has been the man to watch out there this year. Even though he was waved out of action by the doc last year he still has more drive than anyone out there.

Another Engineer threat died on the Redlands 25 as penalties stopped a march that began on the Tech 35.

In the final seconds of play, the recalcitrant Beavers found a spark of life in a backfield consisting of Jim Wilcox, Merle Kam, Art Miller, and Chuz Howard. They drove to the Bulldog 40, where Howard threw to Don Schmid on the 19 yard line. Then Howard passed to Merle Kam, who lateraled to Manuel Bass who batted down to the 3 yard line. Art Miller plunged over for the TD.

**SCORE**

Redlands 7  
Caltech 13

W L Pct.

## GRAY PITCHES

(Continued from Page 4)  
with the depletion of the Fleming pitching staff. Anyone can win now and it is practically impossible to make any predictions.

If the Red take the baseball title from Ricketts they will move into their traditional position of first for the Interhouse House Trophy. Blacker, who took two first place titles in basketball and cross country will be lucky to finish fifth in the baseball farce. The original scare put in the early trophy race will be considerably dampened at the finish of fall term. Present Interhouse Baseball Standings:

	W	L	Pct.
Ricketts	2	0	1.000
Fleming	2	1	0.667
Blacker	1	1	0.500
Throop	1	2	0.333
	0	2	0.000

## BEAVERBABES

(Continued from Page 5)

pass plays.

All touchdowns of the Bulldogs were either made by their aerial attack or by lady luck smiling on the ball carrier. The Redland's eleven mirrored their varsity in their passing attack and in their trick plays. Notable among these was the use of the Y formation in many of their line plays. The one redeeming factor of the Frosh was their never-say-die spirit that kept them going in spite of the top-heavy score.

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