

Welcome Alumni

back to the campus at any time. We take particular pleasure in welcoming them on the occasion of their short visit to the campus on Saturday. No student can consider his education completed when his diploma is received. Correspondingly, no educational institution can assume its task is complete on Commencement Day. The California Institute in particular is desirous of continuing to be of service to the Alumni and the Alumni Seminars are arranged to provide a portion of this service.

"We hope the Alumni will enjoy and profit from this opportunity to renew their campus associations. This is your day on the campus. You are heartily welcome."

VOTE!
ELECTIONS
TODAY

GREEK PLAY,
ALUM MEET
THIS
WEEKEND

CALIFORNIA TECH

California Institute of Technology

Thursday, April 24, 1947

No. 24

Volume XLVIII

Annual Alumni Seminar Saturday

Meetings, Dinner, Visits, Play Planned

Over 40 Alumni and their guests are expected to attend the tenth annual Caltech seminar this Saturday, April 26. The programme for the day, arranged by the Committee chairman, Mr. Nicholas A. D'Arcy, includes a program of talks on research work being done at Caltech and a dinner in the evening to which all Alumni and their wives are invited.

Seminars Held In Culbertson

Registration for the seminars will begin at 8:15 a.m. in the

SEMINAR MEETINGS

Will be held in Culbertson, shown on map between Mudd and California-Wilson corner.

Mudd Laboratory of Geological Sciences. All sessions on the campus will be held in Culbertson Hall at the Southwest corner of the campus.

The first seminar, at 9:00 a.m. will be led by Dr. Gilbert D. McCann, Associate Professor of Electrical Engineering, who is speaking on the development of a new electrical calculator.

Following Dr. McCann, Dr. Harvey Eagleson is speaking on some of the forces at work controlling the trend of modern writing, then at 11:00 a.m., Dr. Chester Stock will lecture on some very interesting Paleontological investigations recently conducted in Mexico.

Luncheon in the Student Houses

Before luncheon in the student houses at 1:00 p.m., Dr. James F. Bonner will discuss some of the most important research projects presently underway in the Biology department.

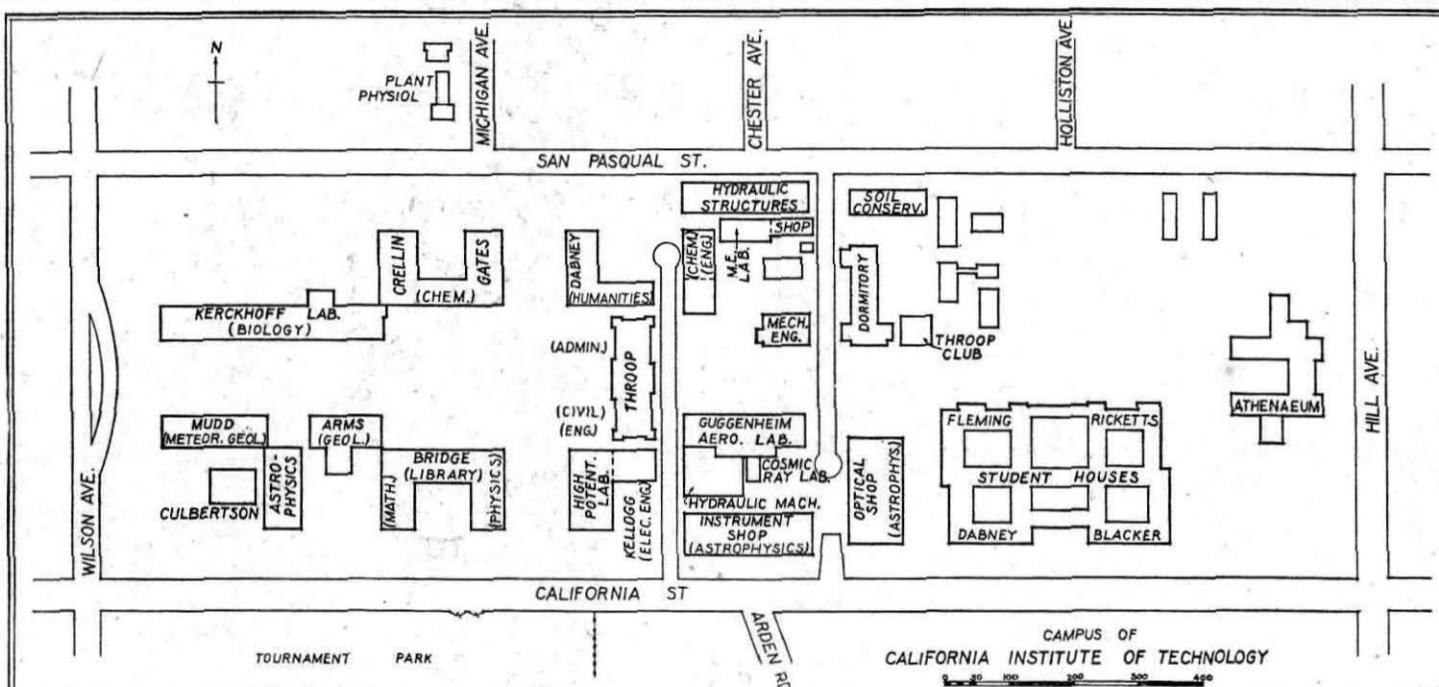
The afternoon program commencing at 2:30 p.m. will include a discussion of the rapid construction of airfields and their operation by Mr. A. Perry Banta, Associate Professor of Sanitary Engineering and a talk on the widely diversified work being done in Hydraulic Engineering, by Dr. Robert T. Knapp.

Beavers to Guide Visitors

From 4:30 to 6:30, several departments have offered to open their most interesting sections for Alumni inspection. The regular Beaver guide service is available for use by the Alumni.

To the dinner at the Shakespeare Club on Los Robles at 6:30 p.m., the Alumni, their wives and guests are invited. Following the dinner, Mr. George H. Hall will discuss the future plans of the Institute public relations department and Dr. John A. Schutz will speak on an interesting current political problem.

8:15—Registration
9:00—Seminars begin in Culbertson Hall, as follows:
9:00-9:50—Dr. Gilbert D. McCann, Electrical Engineering
10:00-10:50—Dr. Harvey Eagleson, Humanities
11:00-11:50—Dr. Chester Stock, Paleontology
12:00-12:50—Dr. James F. Bonner, Biology
1:00-2:30—Luncheon in Student Houses
2:30-3:20—Mr. A. Perry Banta, Sanitary Engineering
3:30-4:20—Dr. Robert T. Knapp, Hydraulic Engineering
4:30-6:30—**Tours to Campus Points of Interest** Beavers, campus service organization, will guide. A list of rooms open for inspection will be posted.
6:30—**Dinner at Shakespeare Club, on Los Robles Avenue**
Speakers: Dr. John Schutz, Humanities, and Mr. George Hall, Public Relations.
8:15—Greek Play in Culbertson



Tectivities

With this issue, the California Tech begins a new column featuring the more notable activities of Tech alumni, faculty members, and students.

President Lee A. DuBridge was elected president of the American Physical Society at the Council Meeting of that organization. Dr. Robert Oppenheimer, professor of theoretical physics at both the Institute and the University of California, was elected vice-president.

By appointment of President Truman, Dr. James Boyd, dean of the graduate school of the Colorado School of Mines, and who obtained his bachelor of science degree at Caltech in 1927, has been made Director of the U. S. Bureau of Mines.

The Institute of Radio Engineers awarded the Morris Liebmann Memorial Prize for 1947 to Dr. J. R. Pierce (class of '33) for his work in development of the traveling wave type of tube.

Analyzer Developed by '29 Grads

Classmates Maurice Hassler '30 and Roland W. Lindhurst '29 demonstrated late in February a device called a "quantometer" which permits immediate visual analysis of metallic elements in any given metallic sample.

Showing the proportions of as many as 11 elements in a given sample as dial readings, the

(Continued on Page 2)

IN THIS ISSUE

Alumni News will also be found on pages 2 and 4.

Student News will also be found on page 6.

Campus Brewins will be found by interested persons on page 5.

(Continued on Page 6)

The California Tech, on behalf of the Caltech student body takes this opportunity to welcome members of the Alumni on the occasion of their short visit to the campus on Saturday.

Dr. Lee A. DuBridge, president of Caltech, also welcomes the returning Alumni.

"The California Institute is always glad to welcome its Alumni and former students

provide a portion of this service.

"We hope the Alumni will enjoy and profit from this opportunity to renew their campus associations. This is your day on the campus. You are heartily welcome."

Class Elections Today; Polls Open At Noon

Large Number of Candidates Seek Junior and Senior Offices

Class elections will be held today; polls will be open from 12:00 to 2:00.

The number of Juniors seeking Senior class offices has shown a surprising increase since last week. Running for the presidency are Bill Boutelle, Tom Hamilton, Len Herzog, and Bud Mittenthal; for vice-president: Don Lovelace, Chuck Moody, Bob Stokely, Bob Winchester, and Bill Woodson; for secretary: Bob Davis and Bob Levy; for treasurer: Erwin Markowitz and Bill Seiden; and for

Board of Control: Sage Burrows, Bob Heppe, Steve Morison, Bill Shippee, and Dale Vrabec.

POLLING PLACES

- Front of Throop Hall
- Throop Club
- Student Houses

Sophomore Nominations

The following men have been nominated for Junior class offices:

President: Chuck Forrester, Paul Saltman; vice president: Andy Harris, Jack Offestad; secretary: Erle Brown, Bob Hockaday, Jim Malone; treasurer: Jack Marshall, Bob Pilling, Bob Walquist; board of control: John Heath, Dennis Long, Bill Palmer, Chuck Shaller.

Two propositions submitted to the class will be found on Page 6.

Freshmen seeking Sophomore offices include the following:

President: Bill Haefliger, Bill Freed, Boyd Gage, Bill Culbertson; vice-president: Bruce Hedrick, Irving Odgers, Myron Arcand, Ken Hammond; secretary: Monte Marks, Burt Housman; treasurer: Carl Fox, Jay Montgomery, Vern Edwards, Walt

(Continued on Page 5)

"The Clouds" This Saturday Night

Friday Sold Out For Greek Comedy

Dust off your togas, grease your sandals, and date your Cleopatra. Hot, gusty winds will

disturb the olive branches in Culbertson Hall Friday and Saturday nights at 8:15 p.m. The Caltech Players are restoring the Greek play "The Clouds of Aristophanes" to its hallowed position in Tech life.

Modern Version

The Clouds has been modernized, with a Tech twist, by Carl Price, Tom Stix, and Fred Smith. Changing the original plot from a satire on the Socratic method, the boys have turned out a play seasoned with bawdy humor characteristic of the Old Comedy, but ridiculing the Tech method. Helped by members of the cast in converting the classic humor of the original, they have prepared a finished play, fundamentally classic but thoroughly applicable to the expected audience.

Worcester Has Lead

Bruce Worcester has been chosen for the lead role of Strepsiades, but the inside men at the rehearsals expect a four-sided battle between him, Mitch Cotton, Bill Bellew, and Tom Stix in scene stealing and mugging.

(Continued on Page 6)

Beavers Elect New Officers

Membership Quota to Be Filled Next Month

The Beavers, honorary campus service organization, elected new officers for the year 1947-1948 during their regular meeting held on April 19.

Those elected were: Sage Burrows, President; Rube Kachadoorian, Vice President; David Baron, Secretary, and Bob Stokely, Treasurer.

They Serve

The purpose of the Beavers is to serve the student body in any manner which will be useful and beneficial. This group is the only honorary service organization on campus. The membership, under the present constitution, is limited to thirty-five. New members will be elected during the first week of May from among the undergraduates who are outstanding in school activities and willing to serve the student body whenever possible.

Recent Activities

During the past year, the Beavers helped organize the Frosh Camp which had been discontinued with the advent of the war. The Beavers also took a major part in reorganizing the

(Continued on Page 6)

Campus Calendar

Thursday, April 24—
ELECTION OF CLASS OFFICERS.
Polls Open 12-2.
Upper Class Luncheon Club at the Training Table, 12:00.
Swimming, Compton JC at Caltech, 4:30.
Dancing Class, Culbertson Hall, 7:30.

Friday, April 25—
Golf, Whittier at Caltech, 1:30.
Fresh Orientation Assembly: Professor Beadle—Biology, 11 A.M.
Throop Club Evening—Installation Dinner—Play—Record Dance.

Greek Play, Culbertson, 8:15 P.M.
All Houses—Open House after Play.

Saturday, April 26—
Baseball—Caltech at Pomona, 2:15.
All Day—ALUMNI SEMINAR and DIN-NER
Pomona Frat Formal (Scripps affected).
Yachting Races begin at Berkeley.

Greek Play, Culbertson, 8:15 P.M.
Open House—Blacker—after play.

Sunday, April 27—
Yachting Races at Berkeley end.
Caltech Musicalie.

Blacker House Beach Party.

Monday, April 28—
Band Rehearsal, 7:30.
Clee Club Rehearsal, 8:30.

Tuesday, April 29—
Remember the Honor System!

Wednesday, April 30—
Frosh Luncheon Club, Training Table, 12 noon.
Orchestra Rehearsal, Culbertson, 7:30.

Thursday, May 1—
Upper Class Luncheon, 12 noon.
Dancing Class, 7:30, Culbertson.

Dabney Stag

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The California Tech

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EPHEMERAE**No Room for Phil**

You're all probably wondering just what happened to J. Phillip Space—and here's the lowdown:

The indispensable Tech editor emeritus is taking a prolonged leave of absence. He sauntered into the Tech office last Monday night, as usual, and lo, there wasn't even a cranny on Page Six in which he could lay his head.

So after, as a final gesture, officially naming next Tuesday "Support the Honor System" Day (see "Campus Calendar"), Phil silently stole away.

J. Phillip Space-Rate

But no sooner had he left than the shadow of J. Phillip Space-Rate, the old ogre, darkened the door of the Tech. The sly absence man cagily refrained from saying anything rash that first night, but his presence bodes no good.

What will happen to the Tech?

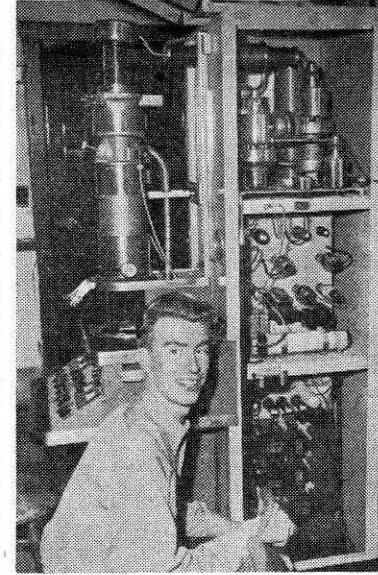
Look in next week's issue!
—LEN.

Your Campus

by John Whittlesey
Electron Microscope

In Room 27, just around the corner in the West Bridge first basement, stands an R.C.A. commercial model electron microscope, its outer covering removed to permit fine adjustments. Before it sits Burton Henke, graduate student, who has been the operator of the instrument since it was purchased by the Institute two years ago for \$13,000.

Burt came to Tech in 1944 directly after graduating from Miami University, Ohio. He was initially interested in the design problem of the electron micro-



Burt Henke and Microscope

scope, but upon being asked to take charge of the newly ordered instrument he decided to base his thesis on its applications. He and the R.C.A. engineers installed the electron microscope in December, 1945, under the supervision of Dr. Smythe.

Not First

The R.C.A. microscope is not our first. About 10 years ago one was designed and constructed on our own campus by Dr. Houston, long before commercial models were available. In the new instrument, however, there are such features as pumping equipment which can evacuate the optical tube in one minute instead of a day, and a highly compact 50,000-volt power supply (shown in Fig. behind 'Scope,) as well as resolving power good to 20 Angstroms.

Night Work

Research with the microscope is carried on at night, for the instrument is so sensitive that vibrations of the building and the fluctuations in line voltage would tend to spoil any daytime photographs attempted.

The specimen holder for the microscope can be lifted out through an airlock with forceps. The specimen itself is mounted on a thin film (100 Angstroms) suspended on a fine wire screen in a brass capsule (hardly larger than a grapenut), which is fastened to the holder's tip. A special adapter on the holder permits stereoscopic pictures to be made. Often the specimens are so transparent that they must be sprayed with gold atoms, or of such fine detail that the molecules in the supporting film present a problem.

The electron microscope is more and more proving a practical aid to research on campus. Dr. Goetz of the Physics Department is studying surface compounds on carbon particles. The Chem Department is investigating the structure of large molecules (such as nitrocellulose); biochemists are using it for research on antibodies, and the Biology Department for the study of sperm.

"Pinhole Camera" Stage

The electron microscope might be said to be still in the pinhole camera stage, having at present only a thousandth of its theoretical resolving power.

The Front Burner

—Lewis L. Grimm

Packed Performance

"As You Like It" opened to a packed house last night at the Pasadena Playhouse. This ever-popular play is making its third trip to the Playhouse, and will continue the line of hits that have been presented in the last series.

Dan Directs

Dan Levin directs "As You Like It," and plays one of the three sons, Jaques. Orlando, the young champion and Rosalind's lover is played by Robert Rockwell.

Louise Loves

Louise Kane as Rosalind and Lois Ely as Celia and their disguise in the green depths of the forest of Arden, provide interest and help set the fast pace of the play.

Willy Wiggles

William Grueneberg as Touchstone, the clown, whose virtues of complete honesty and loyalty even surpass the comic, does a superb job.

Play Pleases

The general comic view of life is reflected throughout the play, forming the foundation upon which the action moves. It is a play worth seeing and a good place for a night or two.

—Lewis L. Grimm.

Camera Corner . . .

by Splicy

"Buck Privates Come Home"
(Universal)

The sequel to the 1941 adventures of Abbott and Costello in "Buck Privates" carries the two back home aboard a troop ship. Having smuggled a little French orphan into New York, a chase begins with the immigration authorities close on their trail.

An hilarious farce-comedy verging on slapstick, but amusing, diverting and laugh-provoking. The story is secondary, but

Yet even as such it is an exceedingly powerful research tool, surpassing the resolving power of the finest light microscopes a hundred-fold.

Musical Baedeker

—Frank Valle-Riestra

The struggling cause of jazz has received two new juicy conks in recent days. The first involved a person no less famous than Dr. Otto Klemperer, symphony conductor and past head of the Los Angeles Philharmonic Orchestra. Dr. Klemperer has been interested in the application of the jazz idiom to more serious music and has devoted much time to studying the various forms of music.

Bopped

Recently, Dr. Klemperer visited the Central Avenue district in order to listen to on-the-spot performances of be-bop music. He got involved with two characters posing as jazz fans; in the process he was taken for a ride, bopped on the head, robbed, and dumped.

In a way, the whole affair was the symphony man's own fault; he should have accepted the services of some well-known local musician or jazz critic instead of taking a chance on complete strangers. The affair is extremely regrettable, for, with the enthusiastic aid of Los Angeles yellow sheets, it is too easily associated with jazz.

Cops Pick Anita

Another incident involved Anita O'Day, favorite girl vocalist. A few weeks ago cops broke into her apartment without even a search warrant and arrested her on marijuana charges. Whether the charges are justified is immaterial; the fact remains that the local press unmistakably tied up the affair with jazz musicians in general.

timely in that it shows the difficulties some of our returned veterans experience. The direction is good and the trick photography excellent, and when the pair tangle with the police it is just because they don't know any better, and few will be consious.



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Tectivities, Continued

quantometer may save the steel industry millions of dollars annually in blast furnace time. The result of three years of research and development by Hassler and Lindhurst at their Glendale Applied Research Laboratories, the tool is already in use by the laboratories of several large metal producers.

The average test requires 45 seconds, more than 10 times faster than previous spectrophotographic methods.

More Successes

On May 1 the newly created post of City Manager of El Monte will be filled by Eugene H. Riggs, (CE '27). Riggs, a good citizen on the campus, being commander of the ROTC battalion here, became a Lieutenant Colonel in the military government of Japan, after being post engineer at San Bernardino air station.

Lee Van Griffis has also conformed to tradition by becoming eminent not too long after getting his degree from Tech. Receiving his BS in CE in '37, and his PhD in '41, he is already head of the department of Applied Mechanics at the Illinois Institute of Technology.

Dr. C. Stacy French, associate professor of plant physiology at the University of Minnesota, who was a research fellow at Caltech in 1935, has been appointed to the division of plant biology at the Carnegie Institute of Washington at Stanford University. He will assume his duties as director of the division on July 1.

Dr. Ian Campbell, professor of petrology at the California Institute of Technology, was elected Vice Chairman of the Industrial Minerals division of the American Institute of Mining Engineers at its 75th anniversary meeting in New York. Chairman of the division is Dr. J. L. Gillison, chief geologist for the E. I. DuPont de Nemours Company.

Irving Sulmeyer, C. E. Junior, in addition to taking a debating award, will represent Southern California in the Southwestern Conference meeting of the Junior forum of the American Society of Civil Engineering at Phoenix, Arizona, on April 25.

Jack W. George was recently transferred to the Henderson, Nevada, plant of the U.S. Vanadium Corporation. He had worked at their mines in Bishop, California, since his discharge from the Army in February, 1946.

A. M. Eichelberger, formerly of the United Geophysical Company of Pasadena, California, has joined the staff of the Field Research Laboratories of the Magnolia Petroleum Company of Dallas, Texas, as senior physicist.

Michael E. Hieble is now working for General Electric at their new Electronics Park in Syracuse, New York, on television antennas. He was married in 1942 and is now the father of three children, Patsy, 3½, Mike, 2, and Sonje, 1 month. He will soon have an amateur station on the air under call W2SO. He writes that he would like to hear from other amateurs of the class.

Stanley Sohler is an associate of the John Yates Agency of Massachusetts Mutual Life Insurance Company specializing in estate planning and business insurance. He is now located in Los Angeles, California.

Flashes:
ANDREW V. HAEFF, "lost" to the Alumni Association for a time, is working for the Naval Research Laboratories, in Washington, D. C.
JOHN S. DETWEILER is now residing in Colma, California.

(Continued on Page 4)

Our Alumni

This week's alumnus of note is Frank Capra, (Chem. '18). Coming from a family who could not speak English, he worked himself up to first place in his class in his first year. However, he had to borrow the clothes necessary for a summer trip around the country, which at that time was the prize awarded to the top man in the freshman class.

(A trip to Europe was the award to the top junior).

By the time Capra reached his senior year he had decided that the then new movie industry was to be his lifework. Again he started at the bottom, moving cameras and doing similar work. He talked his way into producing a picture in San Francisco, but found he had a budget of \$3,600 with which to work. By making drastic changes in the studio's staff of actors, however, he got out his picture. Encouraged by this, he came back to Hollywood, made numerous contacts, and was slightly puzzled by the fact that he was paid over \$200,000 a year, just because he is a top-flight director.

Since the war, the second in which Capra has participated, he has produced as well as directed his own pictures, including the widely acclaimed, "It's a Wonderful Life."

Caltech Biochemists Get Polio Funds

Caltech scientists will study the fundamental structure and organization of proteins and related compounds as a basis for further knowledge of how the virus of poliomyelitis destroys nerve cells.

The five-year study financed with \$300,000 March of Dimes funds from the National Foundation for Infantile Paralysis was announced jointly today by Basil O'Connor, president of the Foundation and Dr. Lee A. DuBridge.

It is the plan of the Institute's biologists and chemists to determine the complex structure and organization of the polio virus and how it produces its characteristic effects by studying first the physical, chemical and biological properties of proteins, amino acids and nucleoproteins.

Knowledge gained from the protein studies may lead to understanding the characteristics of the virus, and how it injures.

"Modern medicine," said Drs. Linus Pauling and G. W. Beadle "cannot be content with cures that are not based on an understanding of the nature of both the agent which produces disease and the subject which it attacks."

The Caltech scientists will bring to bear on this problem, which lies in a comparatively new field of investigation, many of science's latest weapons and techniques — electron microscopy, electrophoresis, ultracentrifugation and chemical and X-ray diffraction analyses.

Col. Goldsworthy Awarded Legion of Merit Medal

Lt. Col. Goldsworthy, assistant professor of mathematics and master of student houses, has received the Legion of Merit award for his wartime service.

Col. Goldsworthy, now on retired status, was unable to receive the award at ceremonies held at Hamilton Field, but it was subsequently delivered to him at his home.

Cordilleran Society to Meet Here; Campbell Vice-Pres.

The Cordilleran Section of the Geological Society of America and associated societies, of which Dr. Ian Campbell, associate chairman of the division of geology at Caltech, was recently elected vice-president, will hold its 1948 meeting in Pasadena. This will be the first postwar meeting of the society to be held in Southern California.



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SAILING MEET
SATURDAY
SAN FRANCISCO

Beaver Sports

TRACK
SEASON
ENDS

Annual F. S. Scott Tennis Tournament Begins Monday

All Entries Welcome At Athletic Office Now

Although the varsity squad in the form of Lamb's Lambasters has no matches this week-end, tennis activity on the campus is moving along, anyway.

Champ to Be Determined

Plans are now underway in preparation for the annual Scott Tennis Tournament to determine the best tennis player in the undergraduate school at the institute.

Sign Up at Athletic Office

Tournament play starts this next Monday, the 28. Be sure to sign up at the Athletic Office before Saturday noon.

Charlie V. Defending Champ

The winner of the tournament will have his name engraved upon a perpetual trophy donated by Frederick S. Scott in 1930. In addition, an individual plaque is awarded to the man who wins. First of all, though, the man who emerges on top will have to defeat Charlie Vahanapanich who is the defending Scott champion, having won the cup in 1946.

Traditional Event

The Scott tourney is one of the traditional events maintained at Tech straight through the war. In 1943 and 1944, Stan Clark won the trophy, and in 1945, Robert A. Bowens' name was engraved on the cup.

Saturday Noon Deadline

This is a splendid opportunity for anyone who wishes to learn something about tennis. Even if you're not a terrific player—you're bound to profit by the experience gained from playing some good players on the campus. Don't hesitate to sign up—but do it sometime before Saturday noon.

Two Out of Three

All matches will be two out of three sets. The tennis balls used must be acceptable to both players and the losing player will pay for the balls.

Splashers Edged By Balanced Pomona

Techmen Meet Compton J.C. Today at P.J.C.

The swimming meet one week ago yesterday between Pomona and Caltech was touch and go up to the last event which decided it in Pomona's favor. Running right in form, Tech opened the meet with the winning combination of Montgomery, Palmer and Curry in the medley relay, and finished the meet by losing the free-style relay. Gerald McKenna turned in a fine performance on the low board.

Compton Meet

The Beavers' last home meet, today against Compton J.C., in all probability will end with Tech riding the heavy ledger. Compton will be swimming under a handicap, since some of their standard races are of different lengths than the ones they will be swimming today.

POMONA vs. TECH
Medley Relay—CIT (Montgomery, Palmer, Curry) 3:32.9.
220-yard F.S.—Kaufman (P), Houser (T), Dixon (T) 2:34.9.
50-yard F.S.—Jorgensen (P), Barry (P), Harris (T), 25.6.
Diving—McKenna (T), McComas (P), Scull (T).
100-yard F.S.—Jorgensen (P), Barry (P), Murphy (T), 58.1.
150-yard back—Montgomery (T), Hall (T), Conway (P) 1:57.9.
200-yard breast—Palmer (T), Titus (P), Boicourt (T) 2:55.6.
440 F.S.—Kaufman (P), Dixon (T), Curry (T) 6:11.3.
400-yard F.S. relay—Pomona (Barry, Person, Kaufman, Jorgensen); 4:06.5.

ACTIVITIES

(Continued from Page Two)

WILBUR D. CRATER has moved to Long Beach, California.

ROBERT H. BASHOR is back home in Los Angeles, California, after serving with the Navy. He is now employed with the Worthington Pump Company.

ROBERT M. BRAGG is now residing in Fowler, California.

GEORGE S. BUDNEY has taken a job as stress analyst with the Warren MacArthur Corporation of Bantam, Connecticut.

THOMAS W. NORSWORTHY is employed with the Dallas, Texas, branch of the Los Angeles advertising firm, the McCarty Company.

ARTHUR W. SCHNACKE is now living in Schenectady, N. Y.

FLOYD E. WEAVER has accepted a position with the Latisteel Corporation of Los Angeles, California.

ELMORE G. BROLIN is working in the engineering department of the Standard Oil Company at San Francisco.

KEITH DOIG has accepted a position with the Shell Oil Company. He expects to spend four months at each of the three divisions of the company, Bakersfield, Long Beach and Ventura, in preliminary training.

JAMES C. EVANS is employed with the North American Aviation corporation.

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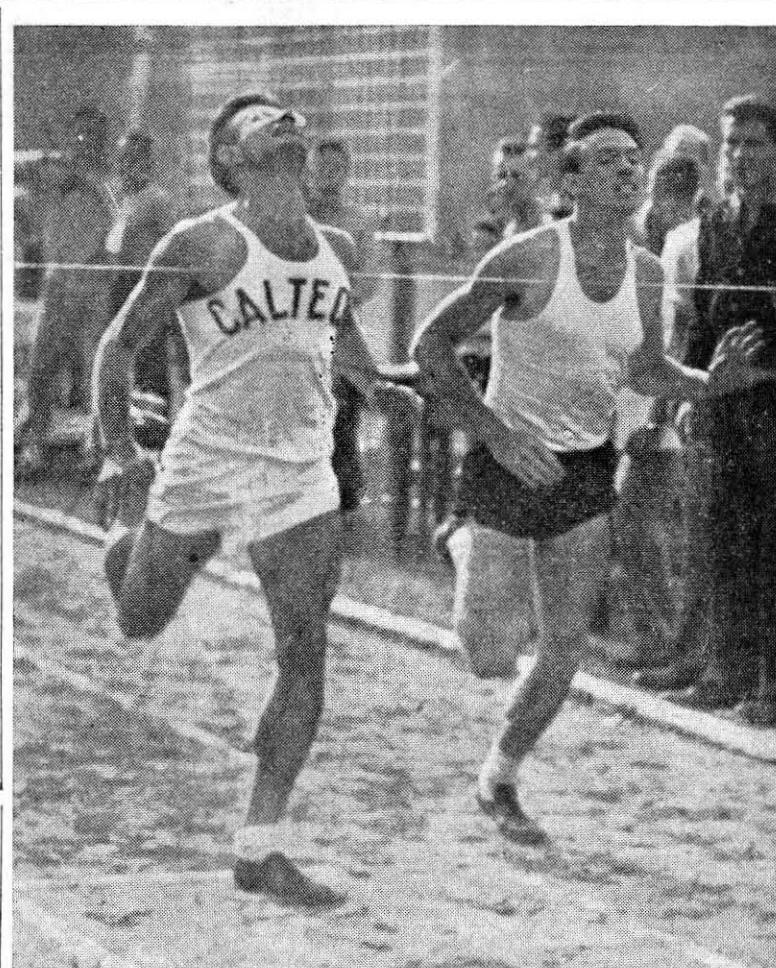
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Stan Barnes Wins Half Mile

Golf Team Bows To Strong Pomona Team Fourteen To Four

"Desert" Hole a Defeat Conference in Doubt

Caltech's golf squad suffered its first defeat of the season last Friday afternoon at Santa Anita, bowing to a very strong Pomona team, 14-4. Harrington, Revay and Douglas were low net for the Beavers with scores of 74, 77 and 80, respectively.

Close Match

The closeness of the match is hardly apparent from the score as the boys lost three very hotly contested matches. In each case it was the par-four 17th hole, flanked on the left by a vast expanse of sand and aptly named "the Desert," which spelled defeat for the Beavers. Harrington, Revay and Douglas were each one down at the end of the first nine. After playing their opponents even for the next seven holes, they came to the unfortunate 17th, where a win by any one of the three would have tied up the individual match with one hole still to play. Benton was the only Beaver to win his match, while Moore tied his opponent.

Conference in Doubt

However, the conference race is still very much in doubt as the Beaver six will meet Pomona again after playing Whittier and Redlands. If the latter schools can be beaten again, Cal Tech will be in a position to tie for the title by beating Pomona in the last conference match of the season.

Lyons (P) def. Harrington 2-1.
Ivey (P) def. Revay 2-1.
Wilson (P) def. Douglas 2-1.
Moore tied Orthed.
Phillips (P) def. Burrows 6-4.
Benton (T) def. Toussaud 2-1.

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Occidental Takes Conference Meet

Tech Wins Third Spot as Tigers Make Large Score

The faint aspirations Tech had toward the conference track title were rudely dashed Saturday afternoon as the Oxy spikemen rolled up a total of 52 23/30 points to take the meet without trouble. Pomona was second with 32 2/5, Tech third with 27 5/6, followed closely by Redlands' 27 1/5 and Whittier's 24 4/5.

Barnes Wins Half-Mile

The single Beaver winner of the day was that Paragon of Pacers from Palo Alto, Stan Barnes, who eked a victory in the half-mile over Bill Wagner of Redlands by inches in 1:59.5.

Martin Walt pole-vaulted his way to a three-way tie for first, sharing honors with Henney and Berokoff of Oxy at 12 feet.

Oxy's Parker Stars

Tiger Bill Parker just took off and flew as he nipped Ken Shauer in both the 440 and 220. The 29-year-old record in the one-lap event was broken as the watches caught Parker in 48.6s.

Tillman Takes Two Seconds

Another upset to Tech's disadvantage was a 46ft. 9 3/8in. heave by Bob Teagle of Pomona to win by less than two inches over Don Tillman's best effort in the shot-put. Big Don also grabbed a second in the discus at 127ft. 9in.; while Tech's own Scragg boy, Manual Bass, did a little upsetting to the Beaver's favor by nabbing a fourth with a heave of 124ft. 8 1/2in.

Elroy and Mac Produce

The diminutive mortar shell, Elroy Chinn, came within an inch of his record leap of a week ago to take another three-pointer for the Flattails with a broad jump of 22ft. 4 1/2in. Doug MacLean took a fourth in the javelin with a toss of 172ft. 10in.; and Dwight Schroeder tied for fourth spot in the 220 lows.

The final Beaver points were made by the relay team of Chuck Shaller, MacLean, Barnes and Shauer, who followed Oxy and Pomona into third spot.

Weekend Sports

Friday:

Golf: 1:30 p.m. Whittier at Santa Anita

Saturday:

Baseball: 2:15 p.m. Pomona at Pomona

Saturday and Sunday:

Sailing meet: Dingy races Saturday; P.C.s Sunday at University of Cal. (Berkeley)

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Horsehiders Lose To Redlands 6-5; Beat Chapman 8-5

Men on Second and Third Tech Struck Out in Tenth

There was no joy in Mudville last Saturday night. The Clubhouse was about as exciting as a morgue, as the Beaver stickmen lost a 6-5 heartbreaker to Redlands after 10 innings of hard-fought ball. Leading 5-4 in the ninth inning, the Techmen watched the Bulldogs come up even, and then go ahead to take the victory.

Redlands Starts It Off

Redlands opened the scoring in the first inning, and pushed across one tally on one hit, an infield out, and a long fly. Both sides went out practically in order then until the first of the fifth, when the Bulldogs combined three hits with two Beaver

errors for three more runs. Johnny Mason scored the first Tech run in the last of the fifth on a hit, two infield outs, and a Redlands error. The score then remained 4-1 until the last of the eighth, when four Beavers crossed the plate.

The Big Eighth

Dick Patterson opened the inning with a single, Butler was safe on an error, and Norman was on on a fielder's choice. Petruolas then hit to the infield, and in an attempt to get Butler, the Bulldogs threw the ball away, and Petruolas went to third. Hedrick squeezed him in on the next pitch, and the Beavers went into the top of the ninth leading 5-4.

The Bitter Tale

The rest of the story has that rough edge, with Redlands scoring a run in both the ninth and tenth innings to win the game. Tech went down on strikes in the tenth with men on second and third.

Game Notes

Lang Hedrick pitched superb ball for the Beavers, and went all the way. Chuck Norman completed a nice double play, unassisted, which pulled Tech out of a hole. Patterson, Butler, and Mason all got two hits during the game. Next week the squad will go to Pomona for the fourth league game.

Playing a full schedule last week, Coach Musselman's Eager Beavers managed to break even in their practice games by dropping Chapman 8-5, while losing to Muir J.C. by a score of 7-5.

Second Over Chapman

The Chapman game marked the second straight time that Tech has sent the Panthers home on the short end of the score. The Beavers won the affair with a four-run outburst in the third inning, and cinched it by the addition of two more markers in the fourth. Lang Hedrick and "Big Mac" MacGinitie shared the pitching role.

Muir Wins on Big Inning

The Muir J.C. game seemed to be a sure thing for the locals until a rough third inning when the Mustangs combined five hits, an error, and a base on balls to score six runs. Man-at-the-plate for the day was Patterson, who banged out two hits in three trips.

REDLANDS						
AB	R	H	O	A	E	
Lloyd, If	3	2	2	2	0	0
Waters, cf	5	0	1	1	0	1
Flora, ss	5	1	1	4	4	0
Hackaman, 1b	4	0	1	13	0	1
Corwin, 3b	5	0	1	1	1	2
Duncan, 2b	3	1	0	2	3	0
Broaders, c	3	0	0	4	0	0
Parker, p	2	0	1	2	0	1
Masonis, p	5	1	1	0	5	2
Totals	39	6	9	30	13	5

CALTECH						
AB	R	H	O	A	E	
Patterson, cf	5	1	2	0	0	0
Butler, 2b	4	1	2	3	7	2
Norman, ss	5	1	0	4	2	0
Petruolas, c	5	1	1	3	1	0
L. Hedrick, p	4	0	1	3	1	1
Mason, 1b	5	1	2	14	0	0
Morrison, 3b	3	0	0	2	2	0
B. Hedrick, If	3	0	0	1	0	0
Smith, rf	4	0	0	0	0	0
Totals	38	5	7	30	13	4

SCORE BY INNINGS

Redlands 1 1 0 0 3 0 0 0 1 1—6

Hits 1 1 0 0 3 0 1 0 2 1—9

Caltech 0 0 0 0 1 0 0 4 0 0—5

Hits 1 0 0 0 1 0 1 2 0 2—7

Innings pitched by—Masonis, 10; Hedrick, 10. Credit victory to—Masonic. Charge defeat to: Hedrick. Hits batted off—Masonis, 7; Hedrick, 9. Runs scored off—Masonis, 5; Hedrick, 6. Struck out by—Hedrick, 3; Masonis, 5; Norman, Mason, B. Hedrick, 2; Petruolas, 1. Bases on balls off—Hedrick, 4; Masonis, 5; B. Hedrick, Butler, Morrison, 3. Hit by pitched ball—Hedrick (Lloyd). Wild pitch—Masonis. Stolen bases—Lloyd, 2; Waters, Duncan, Parker, Norman. Sacrifice hits—Duncan, L. Hedrick. Runs batted in—Waters, Hackaman, Corwin, Parker, Butler, L. Hedrick. Double play—Norman (unassisted). Left on bases—Caltech, 7; Redlands, 8. Balks—Masonis, Hedrick. Passed ball—Petruolas. Caltech, .184; Opponent, .238.

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Talkin' It Over

With Stan and Paul

Having received our good morning kisses from Miriam and Miss McGee, we eased ourselves into the back room of the Athletic Office, commonly referred to by the boys as Hustlin' Hal's Inner Sanctum. Wearing the same tweed suit and smoking the same Corona-Corona that has made him a man of distinction throughout the years, we found the brains behind the Caltech athletics machine—Mr. Musselman.

For the Glory of Tech

"Boys," he said, "here's the biggest thing since Milikan's oil drop. Realizing that the unsung heroes who yearly don the Orange and White to fight for the glory of Tech do not receive the proper tribute, the Adam Hat Company has graciously donated an annual trophy to be awarded by the Student Body—the Adam Hat-Jack Dempsey 'Outstanding Athlete Award.'

Pertinent Poop

Taking another drag on the cigar and wiping a small tear from the corner of his eye, he proceeded to give us the pertinent poop. Before the end of the school year, there will be a series of meetings by a committee composed of the old and new Athletic Managers, the three coaches, four members of Varsity Club, and the athletic managers from the houses and Throop Club. This committee will examine the records of all the promising athletes of the past year. Men from every inter-collegiate sport will be considered on the following basis: Enthusiasm, Sportsmanship, Team Spirit, Co-operation, Ability, and Accomplishments and Contribution to athletics as a whole. The award will be made late in May and there is a possibility that Jack Dempsey will be here to make the presentation.

Man Prostrate on Track

Droping out to visit Doc Hanes we heard a sickening thud and looked up to find a bald headed old man lying prostrate on the track. Thinking it might be somebody's father, we rushed over to offer our assistance. Imagine our surprise to find that famous quarter-miler, Erle Brown. Reviving him sufficiently to speak, he began to unfold a most heart rendering story.

Place Your Bets

It seems as if Doc is organizing a decathlon to be held today and tomorrow on the cinder path. One of the events is the high hurdles, a race which involves the higher principles of aerodynamics. An old ME at heart, Erle failed miserably in

CLASS ELECTION

Davison; athletic manager: Ed Reinecke. Brad Houser, Don "Red" Furth; publicity: Dave Mackenzie, Bill Bradley; board of control: Dave Warren, Stan Barcourt, Jim Blom, Max Matthews, Dan Markoff.

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Campus Brewin's

The big event of the past week was the Tri-College Dance at the turf club. Everyone seemed to be having a fine time even though it looked like a combination barn dance and formal. Don Spalding claims that the best place to dance was just between the two dance floors, so you could hear both bands at once.

For those few who couldn't quite keep up with the athletic music of Desi Arnaz there was plenty of air outdoors dancing to the more leisurely music of Don Ricardo.

Bob Stokely really set the pace doing the Samba with Pag Carrey. He doesn't seem like the type who would or even could, but he sure does.

Dean and Jean Johnson seemed to be getting the Coca-Cola of a slightly different composition than mine.

Personalities

Muscular Tom Stix has revealed his true interests by showing up at the dance with Mary Henderson, an instructor in girls' physical education at Westridge. Joe Rosener turned upon the scene with Althea Eames.—Benignant Dave Caldwell managed to get there with a charming number by the name of Ann Richards, currently co-starring with Franchot Tone.

What is Franchot, when she has a chance to gout with "Smiling" Dave? We understand she does ballet dances in some of the oddest places.—Carl Price, new entertainment chairman of Fleming, seemed to be arranging his own with Ann Densler while Clay Englar was dancing cheek to cheek all the way down with Mary Stansbury.

Cinderella

Ken Parkhurst certainly is the operator of the week. His fiance, Elaine Jones, won the radio quiz program, Queen for a Day. She received all kinds of stuff, clothes, a lot at Malibu, etc., and a necktie for Ken. Both were taken on a royal tour of Hollywood Friday night. Ken claims that his plans to marry her this summer are purely coincidental to her sudden good fortune.

Theater Party

Somewhat overshadowed by the Tri-School dance was the Blacker Theater Party last Friday. After returning from the

his first attempt. However it's still "6-5 take your pick" with many of the school's outstanding athletes competing.

playhouse, the fellows and their dates indulged in some good wholesome dancing. The lights were dimmed so everyone could enjoy the beauty of a good roaring fire. However, it was so warm that the fire wasn't built.

Hookey

John Bauer, Hal Babcock, and Paul Fullerton didn't attend the Tri-school dance, but wherever they went, the Sunday sun was shining brightly when the boys made it back.—Ken Shauer and Lang Hedrick got there but were too shot to enjoy it. (From running and pitching 11 innings respectively.)—One charming and beautiful girl known as Dewitt Nelson (Dewitt as in the name on tobacco revenue stamps) began the evening with a tumble on the stairs, next dislocated something in her foot while dancing by the track (escort unknown), and concluded things by stumbling across a large number of her childhood acquaintances.

Sledgehammer Wanted

Marvin Blair has an interesting specimen (geological) in his room. Marvin asked some friends embarking on a field trip to bring him back a certain type of rock. He now has a 300 pound boulder on his bed. Question: what to do with it?

Athletes

Ricketts House has been challenged to a volley-ball game by Orr Hall at Oxy. We can hardly wait to see the outcome.

Controversy

There is a big storm raging in Dabney over the version of "Foggy Dew" rendered at the dance by Hugh Carter, Rex Stuart, Bruce Hedrick, and Dick Alexander.

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Throop Sets Gala Event Tomorrow

Plan Dinner, Play, Dance

"Tomorrow, Friday, evening will be a big night for all Throop men," Bob Benton, off-campus prexy, announced early this week. Building their program around the presentation of the Greek play, the Throop social committee has planned an evening which will include a big dinner, the play, and dancing in the lounge until the small hours of the morning. Tickets for the occasion are priced at \$1.25, and are available from any of the club's officers in the lounge at noon. It is hoped that a large percentage of the off-campus men will take advantage of the opportunity for a fine evening.

PJC Exchange

Last week the Throop men held a successful exchange with PJC women here on the Tech campus. From all reports, everyone had a fine time, and enjoyed the danceable music and the low fire.

SOPH. PROPOSITIONS

The two propositions presented to the Sophomore class at today's election are:

Prop. No. 1: That part of the money in the Sophomore treasury, about \$100 of the \$230, be spent this term.

Prop. No. 2: If Prop. No. 1 is passed, the money shall be used for one of the following:

Dance, Ice Skating Party, Picnic in Mountains, Theater Party, Beach Party, Roller Skating Party, Beer Bust-Stag, Anything Else?

Ricketts Elects Officers, Bob Dalton New President

Genial Bob Dalton was elected president of Ricketts House at a recent lively meeting. The other officers chosen by the Rowdies to serve during the coming year are Bob Pilling, vice-president; Dave Hogness, secretary; Jeff Williamson, treasurer, and Don Peterson, athletic manager.

George Roe's abilities gained him the post of House Mother, while Jim Fehrenbach was unanimously acclaimed Visiting Lecturer. Blackie Stone retained his post as Keeper of the Morals; Bob Darrow will use his talents as "Custodian," and Bill Shippee as Captain of the Crew.

A few of the new officers gained considerable notoriety in an involuntary excursion in novel costumes later.

Oops!

In last week's Tech, Dr. Robert P. Sharp was reported as appointed to a position at the University of Minnesota. Of course, we meant he was appointed to Caltech's Geology staff.

New Tradition Court Membership Announced

At the last meeting of the Board of Directors, a complete new Court of Traditions was constituted.

The following men, having indicated their willingness to serve on the body, will comprise the Court:

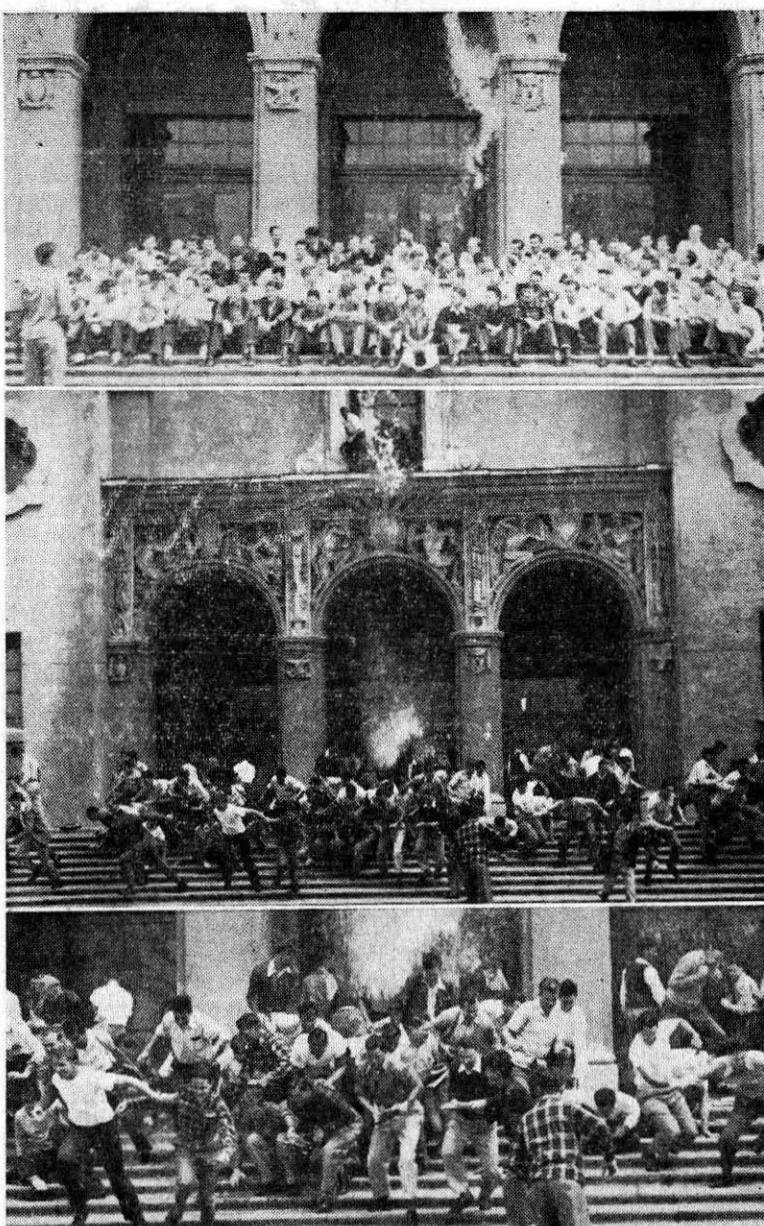
Prosecutor: Bill Freed, Blacker.

Frosh: Monty Marks, Ricketts. Sophs: Dennis Long, Fleming. Juniors: Larry Nobles, Blacker.

Seniors: Gene Shoemaker, Dabney.

Chairman: Frank Wolf, Dabney.

Ex-officio: Doug MacLean, Pres. of the Varsity Club.



"When April Showers" . . . In the sequence of pictures above, a group of Caltech scientists are shown (middle pic) testing one phase of newly-developed methods of causing precipitation artificially. The remarkable short-term growth and increased activity of the specimens is illustrated. Prof. Varse T. Club remarked, "Our experiments with *Drosophila* *froschogaster* exceeded expectations. It was most remarkable."

Strength, Health, Diet, Highlights Assembly

Last Friday, those who were present in Culbertson were treated to an enjoyable program sponsored by the Board of Education. Featured was Mr. Arthur Blackmer and his crew of absent female assistants. Mr. Blackmer proved that eight hours sleep nightly, the right diet, proper exercise and medical attention can provide greater strength in spite of one's physique.

In the absence of Blackmer's promised dancers, Manuel Bass, Paul Saltman, Doug McLean and Jack Ottestad helped the strong man through his routine.

Incidentally, the pep band heard the assembly needs a name, and to promote interest, the Rally Committee is featuring a "Date With Doris" contest. A paid date with a desirable girl is the first prize. Names should be turned into Saltman, Markoff, Mittenthal or Ottestad very soon.

Sylvania To Interview E.E.'s, M.E.'s and Chemists

A representative of Sylvania Electric Products, Inc., will be on the campus May 5 and 6 for the purpose of interviewing men who will receive B.S. degrees or higher in Electrical Engineering, Mechanical Engineering, and Chemistry. Openings are available with this company in advanced engineering laboratories in New York and throughout the country.

Placement Schedule

April 22—Ingersoll Rand Company—Mechanical Engineers—Open.

April 23—Union Oil Company—Summer Work, Chemical Engineers—Restricted.

April 25—Richfield Oil Company—Mechanical and Electrical Engineers—Restricted.

April 29—Allis Chalmers Company—Mechanical and Electrical Engineers—Open.

May 5—Sylvania Electric Company—Mechanical and Electrical Engineers and Chemists—Open.

May 9—Int. Telephone & Telegraph Corporation—Mechanical and Electrical Engineers—Open.

Tomorrow Last Day For Contest Entries

Dr. John Schutz wishes to announce that the Conger Peace Prize contest is still open to all interested. Few speeches have been entered to date, and the opportunities are excellent. The first prize is \$50, and the second \$25. The speeches will be eight minutes in length and should be on the topic: "World Peace and Industrial Peace." The written manuscripts are to be turned in by Friday the 25th. An assembly will be held on Friday, May 2, for the oral presentation of the compositions.

Tomorrow is also the last day for submitting entries to the McKinney prize contest. This contest awards two prizes for the best essays of approximately 1,200 words in length dealing with the general topic: "The Statue of a Man." To be eligible to compete, the contestant should have read the following four books: "Of Human Bondage," Somerset Maugham; "Research Magnificent," H. G. Wells; "The Last Puritan," George Santayana, and "Arrowsmith," Sinclair Lewis.

BEAVERS ELECT

(Continued from Page 1)

Pajamarino at the opening of the 1946 football season just preceding the Oxy game.

Much of the credit for the success of the Tournament Park measure in the Pasadena elections is due the Beavers who helped organize the campaign in which the entire student body participated wholeheartedly. At present, the Beavers are conducting regularly scheduled guide tours of the campus.

As a service organization, the Beavers are always open to suggestions as to how they may aid the school and the student body. All suggestions will be accepted and given proper consideration.

Tri-College Dance Big Success; Large Number Attended

Last Friday evening saw the Santa Anita Turf Club packed with couples from Cal Tech, Oxy and Pomona. The 1800 dancegoers attended the finest school dance of the year. Dr. Lee A. Dubridge, Cal Tech; Dr. Arthur Coons, Oxy, and Dr. E. Wilson Lyons, Pomona, were present to greet the couples, who presented a kaleidoscope of color and fashion.

Arnaz Hot—Ricardo Smooth

The crowd had a choice of two fine orchestras. Desi Arnaz and his band concentrated on spirited, rhythmic Latin selections which held the attention of the more energetic. Arnaz himself frequently sang numbers.

Those who liked sweet swing found Don Ricardo's orchestra ideal. His orchestra was so situated that it could also be heard on a near-by terrace, which was well occupied by the more-fresh-air-loving couples.

Tech Quartet

Dick Alexander, Hugh Carter, Bruce Hedrick and Dave Warren sang several numbers during a band intermission. By adamant popular request they gave a tricky harmony version of the classic "Foggy, Foggy Dew."

Congratulations to Barraclough

With the objectives of better inter-campus relations and a school dance with name bands in view, Bob Barraclough instigated the dance and carried it out in conjunction with the social chairmen of Oxy and Pomona.

GREEK PLAY

(Continued from Page 1)

Two unusual devices carried over from the Old Comedy are a debate between "Old Tech" and "New Tech" and a chorus of Clouds. Dave Caldwell will win plaudits for his solid defense of our local cultists. Tom Tracy, Dick Alexander, Dick King, Bruce Robinson, Burt Housman, Harry Brueggman, Hugh Carter, Ralph Lovberg form the musically inclined Clouds.

Strange goings on have been rumored to have taken place in Culbertson, with whispers of mysterious inhabitants of a still stranger institute hiding behind the pillars and posts. Not at all certain of reports garnered, your writer finds that the following men have fraternized with those elusive will-o-the-wisps: Fred Smith, Dick Roehm, Bill Seiden, Ed Fisk, Chuck Shaller, and Bob Walquist.

Said to be the most perfectly cast is Leo Breiman, while Rex Ragan makes a short but memorable appearance.

Upon the demise of Leigh Sheriffs, Walt Mudgett has taken over the Augean task of properties. Helping him are Jack Ottestad and Bob Heppe.

Carl Price Director

Carl Price, director, has announced:

"Every rule of the stage will be broken before the last curtain. Everyone will get a certain charge out of seeing *The Clouds*."

The original schedule had to be altered when a tremendous demand from the student body forced an early sellout for Friday night. Therefore, students with ASCIT cards will be admitted with their date on a single ticket on Saturday night at the \$6.00 figure.

Dabney and Fleming Houses will be open to all for dancing and refreshment after the Friday night performance. The "Spoon" will be open until midnight.

After that, the olive branches around campus will have their chance.

Varsity Club Men Visit Occidental

Varsity club members Robert Stokely and Warren Marshall paid an informal visit to Orr Hall last Tuesday night. We have it from reliable sources that the



boys enjoyed a rather lively evening. Although the night seemed a bit cool, the staunch Techmen seemed very attached to the hall.

The moral to this simple story, according to our informant, is *Cum Freshmanibus non Messerodus*.

Labor, Capital To Debate At Y Forum

A labor attorney and a corporation lawyer will be the principals at the Y-sponsored forum debate next Monday night at 7:30 p.m. in 119 Kerchoff.

The topic, "Labor Crisis—Cause and Cure" will be debated by Mr. Robert Gilbert, Los Angeles labor attorney, and Mr. Paul Hutchinson, Los Angeles corporation lawyer. Dr. Horace Gilbert, of Tech, will moderate. Both men are especially well qualified. Mr. Hutchinson was recently nominated for the presidency of the UCLA Alumni Association, Mr. Gilbert, top man in his class at UCLA and editor of the Labor Review, is now general counsel for the Los Angeles Central Labor Council, A.F. of L.

AIEE, IRE Elect Officers

The AIEE and the IRE held a joint business meeting April 17 at which officers were elected for the next year, and the Consolidated Engineering Societies constitution was ratified.

It was decided to have a chairman for each organization (co-chairmen) with the AIEE chairman designated senior chairman. Those elected to the AIEE posts were chairman, Taylor Fletcher, and secretary-treasurer, Warren Christopherson.

The CES was organized last fall to furnish speakers of interest to all engineering students. Until now the CES has been operating without a formal constitution. This constitution was brought up for discussion, and was ratified by both groups. The chairmen were also made the official representatives on the CES governing board.

Shoemaker Gets Key; "T" Editors Named

The Board of Directors at its last meeting selected Co-Editors for the next "Little T" and announced that the name of Gene Shoemaker, Geology senior, had been added to the list of those awarded Honor Keys.

Bruce Worcester and Hugh Carter were named "Little T" editors. Other co-candidates for the offices were Sage Burrows and Bill Bradley, and Len Herzog and Bill Karzas. Carter was editor of the "Little T" this year.