

Eleventh Annual Caltech Alumni Day to be Held This Saturday

Alumni to Attend Seminar-Lectures On the 200-Inch and Other Topics

Day to Close With Shakespeare Club Dinner;
DuBridge to Speak on "Atomic Energy"

Among the many interesting seminar-lectures to be presented at Saturday's Alumni gathering, the preview of the 16 mm motion picture documentary film, "The Evolution of the 200 Inch Telescope" will perhaps be of greatest general interest.

The picture includes shots of the polishing, transportation, placement, and testing of the 200" mirror.

Rise to Power

Prof. Henry F. McCreery will direct attention to the policies of the victor nations of World War I which enabled Germany to rise to power after that war in presenting his subject, "Germany as a Factor in the Present World Crisis," and point out the parallels and difference in the policies of the present victor nations.

Crystal Ball

"Where are we and where are we going?" are the questions which Prof. Horace N. Gilbert will attempt to answer, after suitable consultation with his crystal ball. He will interpret the current gyrations of the business cycle and summarize current economic thinking regarding the nation's business future.

Dynamics Filmed

Dr. Donald S. Clark will present a fundamental concept of the behavior of metal under impact by means of a motion picture in his talk on recent devel-

opments in the dynamic testing of metals at the Institute.

Of Historical Interest

The contributions of scientists and engineers to the opening of the Far West to settlement and development will be traced by Dr. Rodman W. Paul in his interesting historical survey, "The Role of Scientists and Engineers in Building the Early Far West."

Anti-Quake Design

"Earthquake Resistant Design" developments will be outlined by Prof. R. R. Martel, in a discussion based on work done in this field at the Institute.

Ever Amber

Kathleen Windsor's "Forever Amber" comes into the seminars as a case history illustrative of some of the problems involved in literary censorship, the subject of Prof. William Huse. He will suggest some desirable changes in attitude and procedure.

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Welcome Alumni . . .

For the members of the student body, the faculty, and administrative officers of the Institute, the staff of the "California Tech" would like to take this opportunity of welcoming ex-Techmen and their families and friends back to the Institute on the occasion of this, the eleventh annual Alumni Seminar.

An excellent program of lectures has been planned to enable you to catch up with recent developments at the Institute, but in addition we urge you to take this opportunity and prowl around campus on your own, or with the help of the student guides.

The campus is yours for the day.

ALUMNI DAY PROGRAM

MEN'S PROGRAM

- 9:00—Recent Cosmic Ray Experiments at High Altitudes
—Prof. C. D. Anderson
 - 9:35—Germany as a Factor in the Present World Crisis
—Prof. H. F. McCreery
 - 10:25—Prelude to Flight—Prof. C. B. Millikan
 - 11:20—The Business Boom—Prof. H. N. Gilbert
 - 12:10—The Evolution of the 200 Inch Telescope
—Messrs. E. R. Hoge and Sidney Zipser
 - 1:15—LUNCH—STUDENT HOUSES
 - 2:15—Dynamic Testing of Metals—Prof. D. S. Clark
 - 2:35—The Role of the Scientists and Engineers in Building the Early Far West—Prof. R. W. Paul
 - 3:25—Developments in Earthquake Resistant Design
—Prof. R. R. Martel
 - 3:45—Literary Censorship—A Case History—Prof. William Huse
- ### LADIES' PROGRAM
- 9:00—The Evolution of the 200 Inch Telescope
—Messrs. E. R. Hoge and Sidney Zipser
 - Tour of the Campus
 - 11:00—Germany as a Factor in the Present World Crisis
—Prof. H. F. McCreery
 - 12:00—LUNCH — ATHENAEUM
 - 1:30—Literary Censorship—A Case History—Prof. William Huse
 - 2:30—The Business Boom—Prof. H. N. Gilbert
 - 4:00—Refreshments—Athenaeum
 - 6:30—DINNER—SHAKESPEARE CLUB
- The Future of Atomic Energy—President L. A. DuBridge

All Day Program Planned to Help Alumni Meet Old Friends

Interesting Talks to Be Given on History, Physics
By Caltech Professors at Seminars on Saturday

The eleventh Annual Caltech Alumni Seminary will be held this Saturday, April 17.

An all-day program on campus for alumni and guests, and, in addition, a special program for the wives of alumni and guests, is planned.

Highlighting the program will be addresses by Caltech professors, including C. D. Anderson, H. F. McCreery, C. B. Millikan, H. N. Gilbert, D. S. Clark, R. W. Paul, R. R. Martel and William Huse. Mr. E. R. Hoge and Mr. Sidney Zipser will also talk.

DuBridge to Speak

The program will be climaxed by a dinner at the Shakespeare Club at which Dr. Lee A. DuBridge, Institute president, will speak on the vital topic, "The Future of Atomic Energy."

The annual Alumni Seminars are held in order to give ex-Tech men and their families an opportunity to revive old acquaintances as well as to give them an insight into the latest developments on campus through a well-integrated day of seminars.

This year's seminar is under the direction of F. T. Schell, '27, with Carl Tutschulte, '31, James H. Keeley, '31, John H. Nichols, '45, Robert M. Lehman, '31, and J. Conrad Scullin, '29, partici-

pating as committee chairmen.

Registration in Dabney

Registration for the seminars will be held at 8:30 in the lounge of Dabney Hall of the Humanities. The morning program will begin at 9:00, and continue until lunch, for the men, at 1:15, in the Student Houses.

Tours Arranged

From 9:45 until 11:00 guided tours have been arranged for the visiting wives and friends of the ex-Techmen. The Afternoon programs will commence at 1:30, for the ladies, and 2:15 for men. Refreshments will be served in the Athenaeum at 4:00, while "visiting hours" will extend from 4:30 to 6:30 at the Pasadena Athletic Club. A lounge and bar have been reserved on the fifth floor of the Club for the convenience of the returnees.

Caltech Orchestra Program To Feature Bizet, Offenbach

Tschaikowski, Bach, Haydn to Be Given;
Lack of Oboist Fails to Discourage Musical Group

Classical works will highlight the musical program to be presented by Caltech's own newly revitalized student orchestra at tomorrow's assembly in Culbertson Hall. The group will be directed by John Brockman, former Tech student.

The main feature of the program will be Bizet's L'Arlesienne Suite. Other selections included are the Minuet and Trio from the Surprise Symphony by Haydn, the Dance of the Reed Flutes from the Nutcracker Suite by Tschaikowsky, Orpheus in the Underworld by Offenbach, the Fugue in G Minor (the Lesser) by J. S. Bach, and, if time permits, Victor Herbert Favorites.

Musicians Wanted

The purpose of the assembly, according to Victor Van Lint, president of the orchestra, is to acquaint the student body with the type of music the orchestra is now playing, and also to interest all men who play musical instruments in the present work of the organization.

At present the orchestra consists of twenty-five instrumentalists, but more men are still wanted, particularly violinists, and an oboist.

Intensive Preparation

The entire repertoire of the orchestra has been revamped, and there have been intensive rehearsals these past few weeks in preparation for tomorrow's

(Continued on Page 2)

Campus Calendar

- THURSDAY, APRIL 15—Upper Class Luncheon Club at the Training Table, 12:00. Throop Club Meeting, 12:20 p.m. Dancing Class, Culbertson Hall, 7:30 p.m. Glee Club Rehearsal in Throop Club, 8:30 p.m.
- FRIDAY, APRIL 16—Student Assembly, Orchestra, 11:00 a.m. Fiering, Exchange Dance.
- SATURDAY, APRIL 17—Swimming Meet, Caltech vs. Pomona and Redlands, at Redlands, 2:30 p.m. Track Meet, Caltech vs. Whittier and Pomona, at Tournament Park, 2:00 p.m.
- Baseball, Caltech vs. Whittier, there, 2:15 p.m.
- ASCIT Dance, Altadena Country Club.
- SUNDAY, APRIL 18—Musical in Dabney Lounge, 7:30 p.m.
- MONDAY, APRIL 19—Nominations for Publicity Manager and Class Officers.
- TUESDAY, APRIL 20—Band Practice, Culbertson Hall, 7:30 p.m.
- WEDNESDAY, APRIL 21—Frosh Luncheon Club at the Training Table, 12:00. Y Cabinet Meeting, Y Lounge, 7:15 p.m. Fencing Class, Dabney House, 7:30 p.m. Orchestra Practice, Culbertson Hall, 7:30 p.m.
- THURSDAY, APRIL 22—Upper Class Luncheon Club at the Training Table, 12:00. Throop Club Meeting, 12:20 p.m. Dancing Class, Culbertson Hall, 7:30 p.m. Glee Club Rehearsal in Throop Club, 8:30 p.m.

Caltech Prepares To Welcome ASME Student Convention

The forthcoming ASME convention to be held at Caltech on April 23rd and 24th will include talks by Tech students Joe Wechsler and Bill Seiden, who are Tech's representatives to this annual convention of Mechanical Engineering students and faculty members from all the larger colleges in the southwest.

Prepared Papers

Wechsler, speaking on "Engineering Experience Derived from Model-building Hobbies," will supplement his talk with a demonstration of his Wechsler built model crane. Seiden's presentation, entitled "The Theory of Plastic Strain Propagation," is based on his personal research experience.

Many Visitors

The other colleges will be here in force to look over our famed institution of learning. Berkeley is sending nearly 20 men. All engineering students are urged to attend as many of the functions as possible. One of the high points of the convention will be the banquet at the Athenaeum, Friday night, costing only \$1.25.

Blackerites Enjoy Broad Amusements

Dancing, bowling, and the Theater began a season of promising social events for Blacker last week end.

Those having rides visited U.C. L.A.'s Hershey Hall Friday evening with other Tech men interested in new contacts.

Saturday night six groups of pins had a rough time of it as Blackerites and their dates rolled scores as high as 226 in two hours of tight competition at the Pasadena Bowling Courts. At the same time, those interested in a more relaxing evening saw "Richard III" at the Playhouse. All returned to late evening dancing and refreshments in the House Lounge.

Blacker is now looking forward to numerous activities including a "Drunkard" Party, Beach Parties, the Senior Stag, and the Spring Formal.

First ASCIT Dance Saturday; 'Showers' Theme of Informal

Clem Savant Elected New AIEE Chairman

After vigorous campaigning on the part of all candidates, Clem Savant was elected chairman of the student Electrical Engineers' chapter in a business meeting Monday. Bob Waters was voted in as secretary-treasurer of the organization. The new officers will take over their jobs from Taylor Fletcher and Warren Christopherson.

Sorensen Talks

Professor R. W. Sorensen, who is also a member of the California State Board of Registration for Professional Engineers, gave a short talk at the meeting, explaining the requirements for registration under the California Professional Engineers Registration Act.

Joint Meeting

On Tuesday Evening, the Caltech Chapter was the guest of the U.S.C. Student Chapter, which was also host to the Los Angeles A.I.E.E. Section. Papers were presented by Caltech students Charles Susskind on "Engineering Education in Europe," and by John Harris on "The Design of a Low Range Ohm Meter."

Veterans!

Two weeks' annual leave is automatically granted each veteran at the close of the school year unless he requests that no leave be granted. These two weeks are charged against the veteran's eligible time.

Any veteran who needs this time for actual attendance should write a letter to the Veterans Administration immediately asking that no leave be granted to him. These letters must be mailed before May 1.

All graduates who expect to register for summer research and who are going to use vet benefits, should come to Room 118 Throop to fill out re-enrollment forms as soon as possible.

Bids to be Made Available at Door Houses, Bookstore, Elsewhere

Band of Carroll Wax to Furnish Smooth, Mellow Music
Beauty Contest Slated for Next ASCIT Event

The ASCIT social program for this term begins with an April Showers dance at the Altadena Country Club Saturday night at 9:00. The dress will be informal, not sport as previously announced, and bids will be sold at the door for \$1.50.

Carroll Wax's band will be featured, and is smooth, mellow, and fine for dancing. The bar will be open from 9:00 to 1:00. Carl Price, ASCIT social chairman, promises this to be a "normal, romantic and thoroughly conventional college dance," and a good time is in store for all those who attend.

Dress, Location

Informal dress means dark suits for men and party dresses and heels for the girls. There will be two ASCIT dances this term, only one of which may be non-bid, and therefore this one will be an attempt to be self-supporting. The bids will be also sold at the houses, the Bookstore, and around campus. This dance promises to be a really fine affair with which to start off the third term, and you will miss a really fine evening if you don't attend. To get to the Club, go north on Hill as far as possible, turn left on Calevaras, and continue right into the Country Club parking lot.

Class Officers to be Nominated Monday

Class meetings will be held next Monday at 11 o'clock for nomination of class officers. The Freshmen will meet in 201 Bridge, Sophomores in 206D, and the Juniors in 155 Arms.

In addition to the regular class officers, two men from each class must be elected to serve on the Board of Control.

Nominations for Publicity Manager may be made at Monday's Assembly or by contacting any man on the Board of Directors. Polls open next Friday noon, April 23.

Throop Installs Officers At Dinner-Dance Party

Fred Wood, ASCIT Rally Commissioner, announced that there will be a beauty contest in Culbertson at 11:00, Friday, May 14, the purpose of which is to choose a King and Queen for the ASCIT dance at the Riviera Country Club on May 22nd. All recognized student body organizations can enter one and only one male and girl contestant each.

Deadline

The names of these contestants must be given to Fred Wood or Bud Mittenhal by May 7th. All organizations making entries must be responsible for having their contestants at Culbertson on Friday 14th. The King and Queen will be crowned at the dance, but the Queen does not necessarily have to be escorted by the King.

Club Officers

New officers for the coming year, besides president Mooring, are Dale West, vice-president; Walt Pfeiffer, treasurer; Bob Connelly, secretary; and John Flynn, social chairman.

The California Tech

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

David Metzler's letter, suggesting Henry Wallace's "solution" to our present difficulties—that we lay down our arms, dismantle our computers and war factories, and so on, in the hope of stopping the spiral of mutual suspicion, reminds me of the traveller who came upon the tableau of two men pointing single shot guns at each other. Neither wanted to take the chance of missing on the first shot. The traveller told them that they couldn't stand there forever, and that it was the responsibility of the man with the bigger gun to lay his down first. He did so, and promptly got shot.
 Every Russian action, past and present, gives evidence that it would be extremely naive to expect Russia suddenly to reverse her opportunistic foreign policy at the moment we make it possible for her to take what she wants.

Robert Heppie

Be Bold, Dashing; Learn How to Fence

Suppose someone insulted your girl, would you be able to challenge him to a duel? Or suppose you insulted someone else's girl, could you defend yourself in a duel? Don't be a coward and resort to your fists like a boor, learn how to fence and run him through!
 The Fencing Club is now considering applications of new members and a beginning class in nomenclature and manual of the foil is about to begin under the leadership of a very well-known fencing instructor, Col. Cherny (no relation to Goldsworthy). The organization meets each Wednesday evening at 7:30 in Dabney dining room (if they have finished those foul jokes by then). Come on over and talk it over, for you, too, can be like the Count of Monte Cristo and appeal to the girls, with your bold and dashing antics.

ALUMNI TO ATTEND

(Continued from Page 1)
Cosmic Rays at 80,000 ft.
 Nobel laureate Carl D. Anderson will tell of his experiments in which cloud chambers have been flown in B-29s up to 40,000 feet and in balloons to 80,000 feet in his talk on "Recent Cosmic Ray Experiments at High Altitudes," which will start the program of seminars.

Tunnel in Operation

Director of the Cooperative Wind Tunnel Clark B. Millikan in his talk, "Prelude to Flight," will trace the historical development of aeronautical testing techniques. The talk will conclude with a motion picture showing the procedure followed at the Tunnel as a typical model goes through its series of tests.

The time of each of the above lectures is listed in the program to the right.

All the lectures for the Alumni will be presented in Culbertson Hall. The morning program for ladies will be in Rm. 119 Kerchoff, while the afternoon lectures for ladies will be given in Rm. 206 Dabney. Alumni are invited to bring their guests.

CAMPUS BARBER SHOP
 In Coffee Shop Building
 (OLD DORM)

Shavings from the Board
 By Stan Boicourt

Editors, Businessmen, Writers! Awaken and behold your future. The offices of Little T editors are awaiting your talents. According to the constitution, the Little T shall be published each year by an editor or editors appointed by the Board. Interviews for these positions will be held May 22 at 7:15 p.m. in the Board of Directors' office.

Flatter us with your presence, and unfold your talents before us. It's your opportunity for financial gain and enriching experience.

Agitation for a student-controlled bookstore and cafeteria has been heard. The Student Faculty Relations Committee at its last meeting approved the formation of a three-man student committee to work with Mr. Stott in studying the plausibility of student control.

The avowed purpose of student control is twofold. First, to divert more of the bookstore profits into student-body control, and second, to provide more desirable cafeteria service to the students. Whether these, and particularly the latter, can be done by student control is questionable.

In previous years the bookstore operated without profit. This was changed, however, when the publishers forced the store to sell books at the publishers' prices or not at all.

There are many difficulties in the way of student control of the bookstore and cafeteria. In the past the Institute has cooperated readily with regard to ASCIT requests, and it may be that the desired advantages could be obtained by some other means not entailing the responsibilities of complete control.

This, of course, is the ideal sought by the committee. Your suggestions will be welcomed by any Board member or by your class officers.

Jones Clues Forum On Colored News

Speaking on Emotional Plunge to World War, Dr. William Jones told the Y Forum audience that dogma, prejudice, and selfishness are contributing to war hysteria, and that the as yet unfulfilled duty of collegiate people is to take the leadership in questioning the thousands of assertedly war-provoking statements we find in newspapers.

When asked how to avoid prejudicial thinking, the Whittier College president suggested reading such magazines as The New Republic and The Nation as antidotes to daily papers. Dr. Jones volunteered that all sources of information are badly colored, and it is a difficult task to form a reasonably true picture of the world situation.

The Y Forum audiences are looking forward to a three-way discussion in opposition to the coming political conventions. Party leaders will be selected from Democratic, Republican, and dissident ranks, and allowed to plead their case before the student body.

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CAMPUS BREWINS

Saturday night was the board banquet and out at the Tropics Hugh Carter was noted on the verge of making an ass out of himself while the student body paid through the nose. Wolf only showed up for the middle portion of the evening, the rest of the time being locked up in his house with his feminine companion consuming the family alcoholic beverage supply. It was all very gay; the music was mostly Portuguese folk dances and all the chairs were soaked with water.

Marshall and Bruington were off in the mountains again with their women and J. C. Bear just stumbling back in from Laguna is about to take off for a more extended stay further down the coast. He plans on playing "tennis" with his girl.

Red Menace
 Part of the student body was a bit more concerned with political activities, now that the Times has exposed the Reds here. As we look about us we begin to understand many things. Do you really think that your roommate actually flunked? More likely he was a Republican and was liquidated. And how about that pea soup we have so often at dinner in the student house? It's nothing but green borscht. Why do you think we lost our last football game with Oxy?—Communist interference! Are you having trouble trying to understand your P-chem? The dirty Reds are trying to confuse the minds of our healthy young scientists. It's all propaganda.

Who knows, maybe they'll try and take over the campus soon. Of course, there is no AYD or MRA on this campus, so probably the Biology Club will have to perform the coup d'etat. My God! They'll make biologists out of all of us. They even make us drink that horrible Red tomato juice instead of healthy democratic gin. Then again, maybe the Times is just a bunch of communists trying to becloud the issue by accusing us first.

Flash! C.I.T. Pasadena, Cal. OP News reports Red cell on the Tech campus. At a special emergency meeting called by the Goon, the Big Red team has decided to go underground. Fleming will no longer be called the Big Red team but as of this date the Big RED WHITE and BLUE team. All forms of propaganda previously issued by the cell will be ceased. I am sure "Rep. Tinney" should investigate this subversive group that is attempting

ORCHESTRA PROGRAM

(Continued from Page 1)
 assembly. Everyone is urged to attend for an hour of relaxation with the Masters.

This Assembly is just a preview of coming attractions, since the orchestra, in line with its new policy, next year plans to inaugurate a series of one concert per term.

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 HELMUT DANTINE
 MARY ANDERSON
 PAUL LUKAS

to take over student body affairs. They now control the ASCIT, last night gained control of the Varsity club, and Monday attempted to control the Engineering Society by running a straight RED slate. The TIMES must be right. This one small voice begs you to save us from eventual enslavement.

Dabney Hall Rocked
 Dabney Hall is still reverberating from the maniacal screams of "Georgeous George" Suman, Dabney's most ebullient frosh. As per custom, the frosh were being used to initiate the newly elected officers. To thwart this move, the enterprising new officers trussed the "Georgeous" one up in the Humanities' basement thus hoping to eliminate the more explosive elements of the frosh and ensure their escape that night. Suman did not cooperate and as soon as they got him there, he let out shrieks that were not dissimilar to those of a well-stuck PIG. The results were not disappointing. People rushed to the scene from every nook and cranny of the dignified Hall of Humanities (Probably disturbing Three Button's Ghost) expecting to see another Black Dahlia murder. Wes Hershey was among the first to arrive, his face white from the ghastly screams, but he went back to his office in disgust seeing that nobody there was interested in doing Boy Scout work.

Scripps Back Again
 Well third term is under way and it looks like most of the old "Regulars" will last out the year. Saw Bruce Hedrick, Dave Warren, Mitch Cotton, Chuck Auerbach (in again), and Limpy Stix. Noticeably absent was the male half of the Boutelle-Hoban combo, although the female half was quite in evidence with another handsome hunk of man. Looks like YOU've been aced out Willy—TOUGH!

All Quiet on the Northern Front
 There has been a disgusting lack of interesting news out of

Minor Riots Mark Campus Elections

The annual house elections were held April first with no more than the usual minor rioting. New presidents are Art Bruington, Blacker; Dave Hayward, Dabney; Paul Saltman, Fleming; Dave Browne, Ricketts; and Gene Mooring, Throop. In keeping with its reputation, Fleming elected not one but two athletic managers.

Blacker: Pres., A. Bruington; V. Pres., B. Gage; Sec., J. Fee; Treas., W. Waters; Soc. Ch., W. Freed and H. Stoddart; Ath. M., W. Palmer.

Dabney: Pres., D. Hayward; V. Pres., D. Royce; Sec., W. Whitney; Treas., D. Markoff; Soc. Ch., D. Royce; Ath. M., W. Herzog.

Fleming: Pres., P. Saltman; V. Pres., E. Brown; Sec., Linderman; Treas., R. Walquist; Soc. Ch., W. Woods; Ath. M., B. Bible and C. Norman.

Ricketts: Pres., D. Browne; V. Pres., W. Bradley; Sec., T. Bowen; Treas., M. Andres; Soc. Ch., W. Bradley; Ath. M., R. Darrow.

Throop: Pres., G. Mooring; V. Pres., E. West; Sec., R. Connelly; Treas., W. Pfeiffer; Soc. Ch., J. Flynn; Ath. M., D. Neverman.

Confidential Note: It is rumored in usually unreliable sources that the Thomas committee has decided to investigate Tech!!!

Assassins Fouled By Ringed Alumnus

By Lothrop Mittenhall
 It was a damp and humid night in Singapore as our hero Rudolph Lumpkin squinted up at the sickly looking moon and padded on up the narrow street flanked by strange oriental architecture. Rudolph was oblivious to his surroundings as he felt the sidewalk through the holes in the soles of his shoes and felt his last two bogaches jingling together in his pocket. He was tired of that job playing piano in a house of ill-repute anyway, and he hadn't really minded them firing him, for ever since his wife, an Oxy grad, had left him, he had been in a fog.
 And then he heard it. Yes, it was a groan, someone was mumbling about the cosine of alpha and e to the x. There in the gutter was a limp form. The figure looked like that of all the other hopheads who slept in the gutter. But wait, there was one difference,—that ring on his finger, it was the same as the one on his finger which he had never had the heart to hock.

Rudolph tapped the prone figure on the buttocks, and said, "You from Caltech, buddy?" The poor wretch looked up and mumbled, "Righto, Class of '48, Fleming House and Tau Beta Pi."

Rudolph: "Thought I recognized the ring."
 Figure: "And you're Lumpkin, star of varsity ping pong team. Gad, you've saved me from the Bulgarian assassins. I am indebted to you for life. Allow me to share my hidden wealth with you and support you for life in gaiety, laughter, and joy."
 Rudolph: "OK."

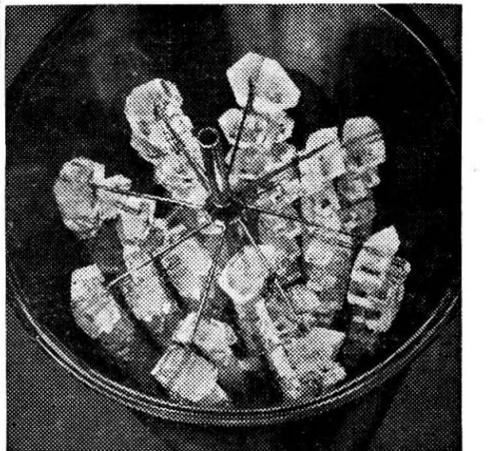
Friends, you too might have the same experience. Purchase your senior class ring now from Bud Mittenhall, Bob Davis, Bob Winchester, or Bill Seiden. They are only \$21.75 plus tax and you can merely make a small deposit now if you choose.

Newsworthy Notes
for Engineers



Red Light stops trouble-makers

This girl is using a test set designed by Western Electric engineers to detect defective fuses which would pass ordinary tests. X-ray studies of bad fuses showed broken fuse wire as the usual cause of failure, but that 90% of the time, the broken ends made sufficient contact to test O.K. unless the fuse was vibrated. In the new test set, the fuse is struck ten times a second with a force of 250 grams causing the broken ends to separate—an "open" for as little as ten micro seconds, lights a red light—and the fuse gets no chance to make trouble in telephone service.



Bumper crop of crystals grown from seed

Here you see a tank-full of synthetic EDT (ethylene diamine tartrate) crystals ready for harvesting at Western Electric's Electronics Shop. These have been held at a fairly constant temperature for several weeks and have swished back and forth in the solution in the tank, growing from tiny seeds into chunks the size of your fist. They will now be processed into crystal plates to filter various voice channels—nearly 500 separate conversations—traveling over the same long distance telephone circuit. Setting up equipment and working out precise controls required in growing crystals was an interesting problem for Western Electric engineers. This year's crop will produce a million or more crystal plates.

Engineering problems are many and varied at Western Electric, where manufacturing telephone and radio apparatus for the Bell System is the primary job. Engineers of many kinds—electrical, mechanical, industrial, chemical, metallurgical—are constantly working to devise and improve machines and processes for mass production of highest quality communications equipment.

Western Electric
 A UNIT OF THE BELL SYSTEM SINCE 1882

FLEMING, DABNEY HEAD I H FOOTBALL RACE

With Dabney and Fleming leading the pack with two wins apiece, interhouse football moves into its second week this afternoon with third-place Ricketts meeting the Big Red machine.

Dabney has garnered wins over Ricketts and Throop, while the Athletes were rolling over Throop and Blacker.

Important Contest

Interest centers on next Tuesday's Dabney-Fleming clash which will probably decide the league championship and may decide the Interhouse Trophy competition for the year. A win by Fleming would practically insure the Big Red of possession of the trophy for another year, while a Dabney victory would leave the Darbs in striking distance with two sports to go.

Opening Games

In the first game of the series, April 7, Ricketts, after a slow start, ran up five touchdowns and a safety to swamp Blacker, 32-0.

On the following day Fleming repeated this performance with 36-2 rout of Throop. Pass interceptions figured heavily in the Red win.

Dabney Shows Strength

Dabney entered Monday's Ricketts encounter as underdog, but a stiff defense coupled with occasional flashes of offensive power broke the Rowdies, 12-0.

In other games this week, Fleming took an easy decision from Blacker, 36-6, while Dabney annexed its second victory of the campaign by defeating hapless Throop, 38-0.

Beaver Sports

Poets, Sagehens Face Tech Cinderpathmen

The Beavers open wide their facilities at Tournament Park 2 p.m. Saturday for the big three-way track meet with Whittier and Pomona. Undaunted by last Saturday's precipitation which caused their dual meet with Redlands to be postponed until April 24, Tech thinclads will be out in force to run, jump, put, vault and throw under the direction of Coaches Doc Hanes and Mason Anderson.

Frosh Meet Tomorrow

The Frosh will meet the Freshmen from the two conference schools tomorrow at 4 p.m., also at Tournament Park.

Stiff Competition

Both Whittier and Pomona are loaded with sprinters, and Techmen Bob Funk, Dwight Schroeder, Dave Madden and Charles Shaller will be hard pressed to place in these events. Likewise, Beaver track captain Elroy Chinn will have to do some fancy flying in the broad jump to edge out the Whittier contingent.

Distance Events Even

The distances appear to be just about anybody's race, with Jack Marshall, Don Peterson, and Mike Sellen possible winners for Caltech. In the field events the Poets and Sagehens are again all powerful in the high jump, javelin, and discus, with the Engineers offering probably winners in the shot with Hal Tyson, and

(Continued on Page 4)

Talkin' It Over with The Goon

While walking down the immortal brick path from Throop to the Houses (now mind you, I was on the right side of the walk) I bumped into someone who was striding down the far left side. Yes, you must have guessed by now this corpulent being was none other than Harry "Call Me Anything but Fatty" Moore.

From Baskets to Golf

Harry got a little to old to play basketball, so Jane (that's Harry's little woman) took him off the hardwoods and placed him on the fairways. It was a good move to make. Happy Harry tried to keep a hand on the c-saba by coaching some Long Beach high school outfit after hours, but only succeeded, as our other local mentor, in acquiring a few gray hairs. At long last the old boy himself realized that he was getting too sensible to play, or even coach, such a hectic game and retired to his back yard pitch and putt course.

Leads Digitmen

Here you might think would end the saga of one of Tech's fighting warriors. Ah, but no; the best is yet to come. We can't be too sure what Harry was doing in the vicinity of the biology labs lately; there was some small talk about monkeys, and glands, and a lot of other stuff that I didn't pick up. However the results were amazing. No longer does the caddy have to carry Harry plus the clubs. No longer can Benton make a lower score with a putter than Harry with a bag of clubs. A

(Continued on Page 4)

Horsehiders Drop Thriller To Hens

The Varsity baseballers dropped a close 5-to-4 contest to Pomona at Tournament Park Tuesday afternoon. It was a hotly-fought contest all the way, in which all the breaks seemed to be going against the Engineers.

Base Runner Hit

The score should have read 6 to 4 in favor of Tech, but a once-in-a-lifetime accident robbed the Preisler-men of at least two runs. The bases were loaded with only one away in the fifth inning when Bam Spaulding sent a low line drive between third and short. But the ball hit the runner from second base, who was promptly called out for interference, and the runners were not allowed to advance.

Beavers Hit Hard

The game had its encouraging aspects, however. Tech outhit its rivals, 11 to 7, with Milt Strauss getting three hits, and Dick Patterson and Tom Petrus two each. Chuck Norman put on an excellent pitching exhibition when he came in from his shortstop position in the seventh inning and retired the side with a strikeout. Chuck then put the next six Pomona batters down in order, getting five strikeouts. Glenn Chaffee was charged with the loss when he forced in the winning run in the seventh inning by walking Kirby with the bases loaded.

Meet Whittier Saturday

The spectator turnout was tremendous (for Tech). If you want to be treated to an afternoon of

(Continued on Page 4)

Whittier Team Clubbed Down By Tech Golfers

Divots flew Friday afternoon, April 9, at Montebello golf course as the Caltech squad came through with its second victory of the season.

Harry Moore and team captain Ed Revay led the field with victories over Spurr and Thompson. Moore just couldn't miss. His 18-hole medal score was a sizzling sub-par 70, made possible by birdies on the 15th, 17th, and 18th holes. Revay finished not far behind with an even par 72, also with birdies on 15, 17, and 18. After the last putt was down, the Whittier College Clubbers found themselves on the short end of a 14½ to 3½ score.

To Battle Pomona

This Friday, the Tech team meets Pomona on the Sagehens' home course, the tricky Rancho Don Lugo layout. This match should prove to be a very crucial one in the contest for first place in the conference race.

SCORING

Moore (C) def. Spurr (W), 6 & 4; Revay (C) def. Thompson (W), 5 & 3; Benton (C) def. Gresch (W), 2 & 1; Moffat (C) def. Martin (W), 4 & 3; Gartin (W) def. Burrows (C), 3 & 1; Sims (C) def. Randall (W), 6 & 5.

Oxy Swimmers Score Double Win Over Engineer Narrators

The Caltech swim team received its first decisive defeat last Saturday at the PCC pool when the Oxy squad dunked the Beaver mermen to the tune of 53 to 22. In the Freshmen events, the Beaverebabes suffered a 56-19 loss at the hands of the Occidental Frosh.

Last year the Tech team was undefeated in the medley, breast, and back, and it was in these events that much of the Beaver swimmers' power lay. Saturday the Oxy boys swept these events by narrow margins, and came through strongly in the other events to pile up the lop-sided score.

Beavers Win Relay

In the final race the mermen retaliated in part for the previous setbacks. Harris, Waters, Mitchell and Dixon teamed up to pace the Tigerfish throughout a close 400-yard relay and barely nosed them out in the last lap.

Tri-Meet Coming

Next Saturday the Tech tankmen journey to Redlands for a three-way meet with their hosts and Pomona. Redlands promises to be stronger than they were at the Muir meet where the Beavers trounced the Bulldogs.

Medley Relay—Oxy, (3:21.6); 220-yard free style—Evans (O), Burgen (O), Dixon (T), 2:39.3; 50-yard free style—Wolf (O), Harris (T), Mitchell (T), 25.3; Diving—Olsen (O), Treary (O), Hammond (T); 100-yard free style—Crosby (O), Wolf (O), Eschner (T), 39.6; 150-yard back stroke—Wadsworth (O), Montgomery (T), Hall (T), 1:56.6; 200-yard breast stroke—Brubaker (O), Palmer (T), Burgen (O), 2:51.6; 440-yard free style—Crosby (O), Evans (O), Curry (T), 5:59.7; Relay—Caltech, 4:08.6.

Throop Cinches Bowling Title

Throop Club assured itself of the interhouse bowling championship this week as its bowlers won six of eight points in league play. Other results this week were five wins for Ricketts, four for Fleming, three for Blacker, and two for Dabney. Ricketts team 1 fired high series of 2095, while Throop team 2 shot high game of 730.

Best Scores

The individual spotlight this week shines on no bowler in particular. Not a single 200 game was rolled, and only two series over 500 were recorded. Woody Bratnobar of Throop led with 163-157-197-517, while Andy Check of Ricketts was second with a consistent 176-171-162-509. The only games worthy of note were 193 by Bob Barracough of Dabney, 191 by Marv Blair of Ricketts, and 187 by Roger Anderson of Ricketts.

Standings at the 14th week:

House	Won	Lost
Throop	82	30
Ricketts	58	54
Fleming	51	61
Blacker	46	66
Dabney	43	69

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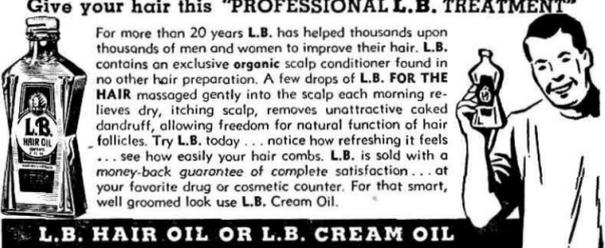
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Frosh Racketeers Defeat Whittier In Loop Opener

Last Wednesday the Beaverbabe netters decisively defeated the Whittier Frosh on the losers' courts, 6-3. Even though the first singles and doubles were won by default, the Engineers had everything in control all the way.

Blanchard Wins

Dean Blanchard, playing in the No. 2 slot, won his match in straight sets. After going to three sets, Thorne Butler finally won his match. Don Schmid was the other singles winner. Blanchard and Butler teamed up, and were the only ones to win a doubles match for the Beavers. Their match was hard-fought, having to go to three sets. The third doubles was not completed, but when the match was called, the Whittier boys were leading, so the match was conceded to them.

This Saturday afternoon at Tournament Park, the Frosh netters face the boys from Redlands. In this match, eyes will

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TALKIN' IT OVER

(Continued from Page 3)

be on Jack Martin, who missed out in the last match. Jack is a very fine player and his past performances on the court have been superb. Come out Saturday afternoon for some fine tennis matches. Starting time is 1:30. new fighting, swinging, driving Harry Moore has emerged to lead the Tech golf team with a two under par 18 holes in the match with Redlands.

Which leads me into a small plug for Revay's Rover Boys, more commonly known as Little Ed's Lawn Mowers. Were it not for Dr. Swift's favorite pupil,

(Ed, of course) it would be doubtful if the Engineers could boast an undefeated season as they have so far. "The Clue" has been tireless in his efforts to the manager's job, and play a par or better round every time. With six men, all about equal, trying for the last three places on the squad the competition has been producing some fine scores such as Virgil Sims third best score in the Redlands tussle of 80 while shooting in the sixth position.

There's a chance to see these men in action Saturday at the Ranch Don Lugo in Pomona when the league championship will probably be decided. Let's hope that Ed can get away with a few more stunts like that six foot putt he conceded himself on the last hole of the match.

HORSEHIDERS DROP

(Continued from Page 3)

near-professional-caliber baseball, come out and see some of the Tech games. The team will appreciate your support. Next Saturday the varsity travels to Whittier for a return match with the Poets.

POETS, SAGEHENS FACE

(Continued from Page 3)

the pole vault with Martin Walt. In the hurdles, Iron Man Dwight Schroeder should break through into the winning column, but the Tech relay team, composed of Dick Cornelius, Erle Brown, Bill Simons, and Bill

was anchor man on the relay Sylvies is likely to be running just for the exercise.

Tech Suffers Loss

The Beavers suffered a severe loss last week when Stan Barnes pulled a muscle in practice. Stan was sure of a first in the 880 and team.

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