

CALIFORNIA TECH

California Institute of Technology

Thursday, April 14, 1949

FISHY
ASSEMBLY
TOMORROW

Volume L.

No. 23

DuBridge States Federal Aid Danger To Higher Education

Banquet Address Climax to Alumni Day Activities; Graduates Give Enthusiastic Ovation to President

"Freedom and progress for education and research" do not lie in the direction of government control of higher education, according to Dr. Lee A. DuBridge, speaking before an enthusiastic audience of 150 alumni and their wives at the banquet climaxing last Saturday's Alumni Day.

Dr. DuBridge spoke on the general subject of Federal Aid to higher education; in particular, direct Federal subsidies to privately endowed colleges and universities.

Dinner Climax

The Alumni, climaxing a day of seminars, lectures, and a field trip to the Guam scale model with a dinner at the Masonic Temple, heard Dr. DuBridge emphasize the following points regarding federal aid:

1. Even though private institutions face serious financial problems, conditions are not yet such that they must depend on federal subsidies.

Untapped Resources

2. Untapped resources are available to meet the financial needs of these institutions.

(Continued on Page 6)

Arts And Crafts Exhibit Success

The artistic side of Caltech was displayed to good advantage in the second annual Arts and Crafts Show of the Caltech Women's Club last week from April 6 to 9. Works of fine art and of craftsmanship done by those associated with the Institute and their families were exhibited.

The purpose of the show was to display the work done by students and members of the faculty outside their professional hours. It was a unique exhibition in that nothing was judged or awarded a prize. The prevailing spirit was mutual appreciation rather than competition.

Beadle and Bell

Among the faculty contributions to the show were a water color by Dr. E. T. Bell, brass jewelry by Dr. Beadle, and a large puppet of the four armed goddess Siva carved and gilded, literally, by Roger Hayward, the scientific illustrator who has worked extensively with Dr. Pauling.

Undergraduate contributors were Mike Sellen, Hugh Stoddart and Ralph Lovberg.

This year's show differed from last year's in that examples of the crafts were admitted for display as well as fine arts. However, two-thirds of the exhibits this year were works of fine art. There were more contributions

(Continued on Page 6)

Drama Club To Be ASCIT Incorporated

A meeting of prospective dramatists was held last Tuesday evening to reorganize the defunct Drama Club to its pre-war eminence. Discussion was carried on under the guidance of former guiding-light, Carl Price, author and villain of the late melodrama produced in Culbertson last term.

Nominations were made for next year's officers, with elections to be held in the near future. Carl Fox and Jim Hendrickson were nominated for President, Al Haber and George Abell for Secretary-Treasurer, and Tony Malanowski and Bruce Stowe for Business and Stage Manager.

The ASCIT Board approved the Club's request to be reincorporated as an ASCIT-sponsored function. Any people desiring to work as Drama Club members next year are heartily encouraged to see Carl Price.

IRE Chapter To See Video Transmitters

Caltech's student chapter of the IRE will visit a number of the television transmitters on Mount Wilson tomorrow, April 15. The group will meet at 12:45 in Tournament Park, and transportation will be furnished by those student members who have cars.

All interested in coming, both members and non members, are invited. The group should be back in time for dinner in the student houses.

Electoral officers took place at a meeting held last Monday, April 11. J. E. Jacobs was elected chairman and Ed Worrell was chosen secretary. Anyone interested in joining the student chapter should contact one of these men.

Trout Technique To Be Featured At Assembly

Yes, it takes brains and science to outwit a wily trout these days, so says Professor William W. Michael who will speak at Friday's assembly on "The Science of Trout Fishing." With the trout season coming up in two or three weeks this is a subject of interest to everyone. Even if you don't know what a trout looks like, Professor Michael's address will probably have you rushing off to the nearest sporting goods store for a rod and reel.

Expert Angler

Although most of you know him as a king pin of the civil engineering faculty, Professor Michael is also an expert trout fisherman and has been at it most of his life. Many leading outdoor publications have cited him as an expert on the subject. He is also a popular speaker on the subject at sportsmen's gatherings.

He contends that the sport utilizes the sciences of hydrodynamics, chemistry, meteorology, entomology and optics; and he claims too few fishermen pay attention to these factors. He says the day of the bent pin and worm is over, and he has had very successful catches to prove it.

Illustrated

In his address tomorrow Professor Michael will discuss the application of these sciences, the location of good fishing streams, and the kind of equipment to use. His address will be illustrated by lantern slides and motion pictures.

All in all it promises to be a very interesting and entertaining assembly that will show the beauty of outdoor life. Don't miss it. Be in Culbertson tomorrow at 11:00.

SENIORS

All seniors who ordered announcements and personal cards may get them this week from Dave Baron between 12:30 and 1:00 p.m. on the walk east of Throop or Rm. 55 Blacker in the evening. Those who ordered invitations may also get their refund at the same time and place.

Dabney Elects New House Executives

At Dabney's last house meeting, Don Royce was given permission to remove the word "vice" from his title, whereupon he immediately bestowed it upon Corbato. All agreed (with the possible exception of Corby) that both men had by their past actions become worthy of their titles, and Dabney looks forward to an eventful year with their two new top officers.

Others, newly vested with power include: Dan LeMay, secretary; Roger Piccioto, treasurer; Jim LaFleur, librarian; Mal Hickey, athletic manager; Jon Goerke, historian; and Dan Markoff, pope. With the offices of lesser import out of the way, the men of the house debated at length and finally conferred upon Bob Laff a title befitting his personality. Men securing similar distinction were Dean Blanchard, Dave Lee, and Doug Alverson. These last named all promised the house a year of unwavering loyalty and unremitting service.

Christian Science Lecture Scheduled

Christian Science Organizations of Caltech and John Muir will present a Christian Science Lecture of interest to college students Monday, April 18. Herbert W. Beck, C.S.B., of San Francisco, will give a lecture entitled Christian Science: The Law of True Dominion at 4:15 in the Sunday School room of First Church of Christ, Scientist, Pasadena.

Electoral officers took place at a meeting held last Monday, April 11. J. E. Jacobs was elected chairman and Ed Worrell was chosen secretary. Anyone interested in joining the student chapter should contact one of these men.

Santa Anita To Be Scene Of First All-Conference Dance

Runoff Elections This Afternoon

Today Techmen will have their last chance of the year to vote for next year's politicians, as the runoff of last week's class and ASCIT Big T editor elections will be held in the usual manner. Three classes will choose between finalists in their respective races, while all ASCIT members will cast their ballots in the first runoff for the job of Big T editor in post war Tech history.

Jon Goerke and Tony Malanowski will vie for the Big T position, Goerke having squeezed a narrow plurality of one vote in the primaries—135 to 134. Only 356 stalwart students ventured to vote for this office.

Latest Results

Most of next year's senior class officers were elected, Stan Boicourt besting Carl Fox for the top job of President. Don Baker was elected to the Board of Control, but **Fred Drury** and **Don Royce** are running off for the other spot on the Board. The rest of the officers chosen include Jim Blom as vice-president, Mike Sellen as secretary, and Bill Haefliger as treasurer.

Sophs

Next year's juniors only elected 2 officers, Pete Mason as secretary, and Ray Greutert as athletic manager. The presidential race was close, so close, in fact, that the contestants, **Carl Hildbrand** and **Dallas Peck**, wound up in a tie, with 42 votes apiece. They are continuing their rivalry today. Also running off are **Bob Cobb** and **Jim Enslow** for vice-president, **Hiroshi Kamei** and **Pete Price** for treasurer, and for Board of Control it's **Leo Baggerly**, **Ulrich Merten**, **Bob Munro**, **Neal Pings**, and **Fred Wood**. More runoffs are in prospect.

(Continued on Page 6)

Revised Constitution Drawn Up By ASCE

Election of officers and the adoption of a new constitution were the main order of business at Monday's meeting of the Student Chapter of the ASCE.

The officers who were elected to preside over the chapter for the next year were as follows: President, Max Kreston; Vice-President, Abram George; Recording Secretary, Donald J. Oswald; Corresponding Secretary, Robert Smith; Treasurer, Don Schmid. A great deal of responsibility will rest on the shoulders of these officers, since there are strong indications that the Western States Convention will be held at Caltech next year with the Student Chapter as host.

Tie for First

The members who attended the meeting were happy to hear that the chapter had shared first place honors with the University of Arizona in the annual evaluation of activities, and preparation of the Annual Report by Student chapters in western colleges.

Another accomplishment of the meeting was the adoption of a new constitution which will effect broadened responsibility for the officers as well as a more equitable distribution of duties. The latter is to be accomplished by a provision calling for a new officer, the Corresponding Secretary, whose sole duty will be the preparation of the Annual Report.

San Marino Hero

Although Raymond Hill had been scheduled to speak at the meeting, his exhaustion after supervision of the heroic rescue effort in San Marino made his attendance impossible. However, the chapter hopes to hear him at the next meeting.

Carroll Wax With 26 Piece Band to Supply Music; Kay Starr, Vocalist

Redlands And Whittier Join With Rest Of Conference To Repeat Tri-School Dance

It will be Kay Starr singing in the Paddock Room on Saturday, 23 April, when Caltech joins four other colleges in the biggest dance of the year. The Handicap Dance, to be held at the Los Angeles Turf Club (Santa Anita), comes as an amplified echo of the famous Tri-College Dance of 1947, sponsored by Tech, Oxy, and Pomona. This year Redlands and Whittier have joined to make it an All-Conference Dance.

Where To Vote

West Bridge 11:00-1:00
Dabney Humanities 11:00-4:15
Lower Throop 12:00-4:15
Throop Club and
House Courts 12:30-1:00
Ricketts-Fleming
Court 1:00-4:15

Latest Results

(Continued on Page 6)

Debate Squad Holds Post-season Meets

Although Tech's debate squad has finished its tournament schedule for the year, the boys are still getting in an occasional word.

Last Thursday, the Caltech team of George Brown and Ulrich Merten journeyed to Pasadena College to debate Lois Lovis and Betty Moore on the problem of "Federal Aid to Education." The debate, in which the boys upheld the negative against very strong feminine competition, was attended by most of the student body and faculty of the opposing school.

Only a few days before this affair, Tech's Bernard Rudin and George Brown met P.C.'s Earl Owens and David Berthel before a Pasadena men's club.

Still to come this term, are two debates against Loyola teams. One of these encounters will be before a Knights of Columbus group, the other at Loyola College.

Suggestions Made At Student-Faculty Committee Meeting

The first Student-Faculty Relations Committee meeting of the Spring term took place Monday afternoon after the large group of new members were introduced by Student Body presy, Ralph Lovberg.

A recommendation was made by the Committee that only the four Deans approve or disapprove Board of Control decisions of expulsion. The Committee also recommended that Ralph Lovberg present to Dr. Beadle a student report concerning the Sophomore Biology course.

ASCIT Finances

Discussion by the students and faculty included the financial crisis of the ASCIT and the resumption of Exhibit Day next year. A move is currently underway to restore the prewar yearly event, but any action must be okayed by the Faculty and the ASCIT Board.

Interview Schedule

APRIL 14— BARNSDALL OIL COMPANY, Los Angeles, California, Producing Dept. Mr. O. Graybeal, Interviewer. BS and MS Mechanical or Chemical Engineers for training in Reservoir Engineering involving subsurface engineering, flow and thermodynamics of fluids in reservoirs. Men must have interest in scientific approach and particularly Mathematical analysis.

APRIL 20, 21, AND 22— E. I. DU PONT DE NEMOURS & COMPANY, INC., Wilmington, Delaware. Mr. S. Scott, Personnel Division, Interviewer. Civil, Electrical, Geological and Mechanical Engineers, Seniors and Juniors for permanent and summer employment.

APRIL 25— STANOLIND OIL AND GAS COMPANY, Tulsa, Oklahoma. Mr. R. G. Neph, Assistant to Chief Production Engineer, Interviewer. Civil, Electrical, Geological and Mechanical Engineers, Seniors and Juniors for permanent and summer employment.

APRIL 25— U. S. ARMY & AIR FORCE OFFICER PROCUREMENT PROGRAM. General Discussion concerning officer procurement takes place in Room 206, Dabney Hall at 4:30 p.m.

APRIL 26— U. S. ARMY & AIR FORCE OFFICER PROCUREMENT PROGRAM. Major Clair W. Sims, Chief of Officer Procurement for Southern California, and Major Marshal E. Bailey, Pasadena Army and Air Force Recruiting Officer, Interviewers. Students who were former officers of any of the Armed Forces of the United States, interested in obtaining Regular Army, Second Lieutenant Commissions, MS or PhD degrees or BS with at least three years practical experience in field for which applying for direct appointments in Regular Army.

Newman Club To Present "Golgatha"

The French production of the last days of Christ, "Golgatha," will be presented by the Caltech Newman Club next Monday night at 7:30 in Culbertson Hall. This film is being shown exclusively on the road, and will not be distributed through theater release.

Admission is fifty cents, and tickets will be sold in the Student Houses, the Y Office, and the Book Store.

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, Calif.

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

Jim Hummel, Editor

EDITORIAL STAFF

Managing Editor.....	Earl Hefner
Sports Editor.....	Thorne Butler
Feature Editor.....	Bob Kurland
News Editor.....	Bruce Stowe
News Staff.....	Fred Drury, Bill Wright, Tony Malanoski, Stu Goldman, Carl Price, Ulrich Merten, Norman Fink, Walt Mudgett, Stan Groner, Ed Mataner, Neal Hurley, Sam Middlebrook

Rewrite Staff.....	Charles Steese, Chief Lee Ross, Alex Drapes, Bob Kurland, Bob Haufe
Special Writers.....	Fred Wood, Paul Saltman, Dick Schuster, Stan Boicourt, Dick King, Jim Young, Carl Fox, Vern Edwards

Sports Staff.....	Dale Krause, Erle Brown, Leon Michaelson, Bill Harris, Stan Boicourt, Sid Stone
Photographers.....	Hugh Stoddard, Bob Parnes

BUSINESS STAFF

Manager	Bill Bradley
Circulation Manager.....	Win Soule
Business Staff.....	Charlie Steese

The Evening Concert Musical Masterpieces

KFAC 8-10 p.m.
Presented by the Southern California and Southern Counties Gas Companies

THURSDAY, APRIL 14, 1949
TANNHAUSER—PRELUDE TO ACT 3, by Wagner. The Philadelphia Orchestra conducted by Leopold Stokowski (13).

SYMPHONY No. 5 IN E MINOR, by Tchaikovsky. The Philadelphia Orchestra conducted by Eugene Ormandy (43).

CANTATA No. 4 (Christ Lay in the Bonds of Death) by Bach. RCA Victor Chorale and Orchestra conducted by Robert Shaw (23).

VARIATIONS ON A THEME OF HAYDN (St. Antoni Chorale), by Brahms. Philharmonic-Symphony Orchestra of New York conducted by Arturo Toscanini (17).

LES PRELUDES, by Liszt. The Philadelphia Orchestra conducted by Eugene Ormandy (16).

FRIDAY, APRIL 15, 1949
ST. MATTHEW PASSION, by Bach. Tiana Lemnitz, Soprano; Friedel Beckmann, Contralto; Karl Erb, Tenor; Gerhard Husch, Baritone; Siegfried Schulz, Bass. Chorus of St. Thomas, Leipzig and Gewandhaus Orchestra conducted by Gunther Ramin.

SATURDAY, APRIL 16, 1949
REQUIEM MASS, by Verdi. Maria Caniglia, Soprano; Beniamino Gigli, Tenor; Ebe Stignani, Mezzo-Soprano; Ezio Pinza, Bass and Rome Opera Chorus and Orchestra conducted by Tullio Serafin.

PARSIFAL—EXCERPTS, by Wagner. Boston Symphony Orchestra conducted by Serge Koussevitzky. Lauritz Melchior, Tenor; Kirsten Flagstad, Soprano. Symphony Orchestra conducted by Edwin MacArthur (60).

MONDAY, APRIL 18, 1949
RUSSIAN EASTER OVERTURE, by Rimsky-Korsakoff. NBC Symphony Orchestra conducted by Leopold Stokowski (13).

SYMPHONY No. 1 IN C MINOR, by Brahms. Philharmonic-Symphony Orchestra of New York conducted by Artur Rodzinski (40).

ARTUR SCHNABEL, Pianist.

CONCERTO No. 2 IN B FLAT MAJOR FOR PIANO AND ORCHESTRA, by Beethoven. London Philharmonic Orchestra conducted by Sir Malcolm Sargent (28).

SEA DRIFT, by Delius. London Philharmonic Orchestra conducted by Sir Thomas Beecham (24).

TUESDAY, APRIL 19, 1949
THE SECRET MARRIAGE—OVERTURE, by Cimarosa. Symphony Orchestra of Turin conducted by La Rosa Parodi (7).

SYMPHONY No. 33 IN B FLAT MAJOR (K. 319), by Mozart. Vienna Philharmonic Orchestra conducted by Herbert von Karajan (20).

YEHUDI MENUHIN, Violinist.

CONCERTO IN D MAJOR FOR VIOLIN AND ORCHESTRA, by Beethoven. Lucerne Festival Orchestra conducted by Wilhelm Furtwangler (44).

DANZAS FANTASTICAS, by Turina. National Symphony Orchestra of England conducted by Enrique Jordà (16).

LE COQ D'OR SUITE, by Rimsky-Korsakoff. London Symphony Orchestra conducted by Eugene Goossens (25).

WEDNESDAY, APRIL 20, 1949
PIQUE DAME—OVERTURE, by Suppe. Vienna Philharmonic Orchestra conducted by Robert Heger (8).

SYMPHONY No. 4 IN A MAJOR (Italian), by Mendelssohn. The Halle Orchestra conducted by John Barbirolli (24).

ERNA SACK, Soprano (32).

LA BOHEME, by Puccini.

O LUCE DI QUEST'ANIMA FROM LINDA DI CHAMOUNIX, by Donizetti.

I ALSO KNOW FINE ARTS FROM DON PASQUALE, by Donizetti.

In diamonds, the finest is less costly than you think

LOS ANGELES • 515 WEST SEVENTH STREET • VA 4141
BEVERLY HILLS • 9520 WILSHIRE BOULEVARD • CR 6-1106

CAMPUS

Lying here lazily in the sun we find it difficult to break effectively, and perhaps a little more trouble than usual to twist our anonymous *(1) mouth into its perennial sneer, but we shall make the supreme effort. Friday night we sharpened our beak on the news that the old and new Student Body Boreds were carousing at the H-wood Bar of Music on \$100 supplied by the unwitting taxpayer. Said taxpayer might have cause to forgive this lavishness had it been a lush evening for the Bored to further their relations, lower scores, etc., but alas, there were lights on the dance floor and prices *(2) on the drinks; Lovberg wasn't even tempted to leap onto the bar and sing "Lili Marlene."

Carl Price, having been hounded for many moons by a young lovely named Maxine (San Jose), finally had *(3) her down for weekend and banquet, but left early for sunnier *(4) pastures—something about a house at Long Beach. Boicourt was not *(5) seen with Gloria... Stan Barnes wheeled in late after wheeling around the track at the LA State meet. The whirring disturbed the waiters *(6).

Dabney played host *(7) to most of the population of the Houses as TV beamed the rescue operations into the Darbs' lounge. This operation called to mind Stuart Little's classic report, "Oh, not so bad." Al Haines, late Canadian Techman, provided a bit of divirtissement when he bounded over the rope restraining the peons, ran up to the edge of the pit, and answered all queries with, "Standard News, Canada." Presently a gendarme with slightly more than usual intellect asked for PRESS CARD. Al was last seen on the end of a foot, *(8) heading for home. This type of suspense, it is felt by the Waiters' Union, can be put to much more lucrative use. They have decided that a rusty 14 inch shaft shall be sunk 1000 feet down in the center of the mesembryanthemum crystallinum *(9) in front of Throop, and Smoot shall be dropped down. Then television cameras and microphones shall be dropped down to record his remarks and activities for all the nation to enjoy—at royalties to the W.U., of course. This'll not only make pots of money, but also serve to trample completely almost an acre of said plant, the Union avows. Speaking of rusty shafts, Bob Madden, who was pantingly *(10) awaiting his beer and TV date for this last Saturday night with Pat, Fisher's alluring cashier, learned that Fisher (the boor) had forced her to work Saturday night, and Madden went back to his eternal lament about the Haves and Have-nots *(11).

MONDAY, APRIL 18
Les Troyens a Cartilage "Overture"—Berlioz. Pierre Monteux and Paris Symphony Orchestra
*Symphony No. 2 in D Major—Sibelius Eugene Ormandy and The Philadelphia Orchestra
Piece Heroique—Franck Pierre Monteux and San Francisco Symphony Orchestra
TUESDAY, APRIL 19
Orpheus in Hades "Overture"—Offenbach Karl Krueger and Detroit Symphony Orchestra
*Concerto in B Minor—Dvorak Gregor Piatagorsky, Violoncellist Eugene Ormandy and The Philadelphia Orchestra
*Samson and Delilah "Bacchanale"—Saint-Saens. Louis Forestier and Orchestra of French National Opera

WEDNESDAY, APRIL 20

Tannhauser "Prelude to Act 3"—Wagner Leopold Stokowski and The Philadelphia Orchestra

*Romeo and Juliet "Dramatic Symphony"—Berlioz. Arturo Toscanini and N.B.C. Symphony Orchestra

*Prince Igor "Polovetsian Dances"—Borodin Gregor Fitelberg and London Philharmonic Orchestra

CARO NOME FROM RIGOLETTO, by Verdi.

VARIATION ON A MOZART THEME, by Adam.

THE NIGHTINGALE, by Alabieff.

EMPEROR WALTZ, by Johann Strauss.

EL AMOR BRUJO, by Delia. Nan Merriam, Mezzo, Soprano. Hollywood Bowl Symphony Orchestra conducted by Leo Stokowski (24).

SUITE IN F SHARP MINOR, by Dohnanyi. Los Angeles Philharmonic Orchestra conducted by Alfred Wallenstein (23).

BREWINS

Blacker sharpened its fangs last Saturday night for its scheduled exchange trap *(12) for Oxy women. Unfortunately, Pope Schuster was unable to be there to look out for souls, as he was out with priestess Dolores from the Bell Telephone parish, exercising his mighty position. Hendrickson and Shepard had gone over to the West to pick up two wenches, and didn't arrive at the festivities until nearly intermission—"twas deemed unfair by the troops, but a bird in the hand... Cuse gathered his faithless stooges around him and moved in, winning, hands down, the Complete-Ass-of-the-Week trophy, which was created for him, Hartung, and Goldman.

Outstanding event of all time was noted—even the Brewin blinkers blinked twice: Teddy Einwohner *(13) was not only there in person, but dancing determinedly amid cheers from the Make-a-Man-of-Teddy League. Apparently everything had been reconciled with Moral Fiber beforehand.

The gleaming, evil eyes of the College of Cardinals vested possessively on Don Schmid and the eager eaglet he was clutching all evening. The eternal physics law *(14) about two bodies occupying the same space was questioned and the Cardinals set about to find an appropriate award for this display of masculinity. Roomate Miller sadly remarked, however, that the youthful passion did not blossom further than the dance floor, and we shake a rueful head at the lack of initiative in comrade Schmid. The Cardinals will no doubt inform him of the obligations of a gentleman...

Mike Hall had laid an acquisitive eye on one fraulein, *(15) and promptly sought out Ramsey to stooge for him and cut in

12. Trapper and trapee are not here specified.
13. This man needs no defining adjectives.
14. Ask any frosh.
15. In German this means young woman.

Ramsey was considered safe, as he had expressed a desire to retire soon, anyway. But Fate *(16) had other plans. The desirable wench was a girl the Ram had known so he didn't leave—eventually Mike did, though, muttering imprecations.

Also eager, Ricketts had a very successful exchange Saturday night, when local girls were recruited through the successful chairmanship of talent-scout Norm Schroeder. There was a variety that couldn't be beaten—six-two, eyes o' blue down to five-one, half a ton. The Rowdies really showed Ruby *(17) a busy evening, and felt that her dancing was the finest they have experienced in a long time. Trying to separate her from a continual rotation *(18) process was like feeding an elephant *(19) nose-drops. Even Don Bratton, the snake's snake, *(20) came out for the dance, so it really was good. Jim Hummel assiduously, and unsuccessfully, endeavored to separate the girl of his dreams from shoulder-tapping of the Chinese-water-cure variety.

The lads from Dabney ventured off to see a couple of attractions at the Blackouts. They are still there, all right. It was heartening to see a swing away from Schimpiss *(21) on the part of the boys, and Hayward was squiring *(22) the library blonde's sister and erstwhile bookstore labourer, Ann; Hedrick had a chick titled Bobbie, and Royce was attended by a short girl whose name was, he insisted, something improbable like Lee Cimborski. *(23)

16. Ramsey.
17. A girl looks twice as alluring when not half concealed by a bookstore counter.
18. Del cross V.
19. A large one.
20. Not to be confused with Heyneman, the snake's snake's snake.
21. A girl's college.
22. Most people drag; Hayward squires.
23. This is obviously a gross fabrication on Royce's part.

We regretfully report, however, that the party was not completely aschmippusal, and despite the East's annual sanitation, painting, decontamination, and Air-wicking Easter session, one Helen was seen lurking in Fred Wood's shadow. He was not, interestingly enough, seen 'til late Sunday night. This party was, incidentally, Corby's first attempt as Dabney's new VP and Social Chairman, and he achieved a new record in gallons per minute of anxious perspiration *(24).

The Fleming Theater Party was disgustingly pure and above-board. The all-seeing eye *(25) was quite bored with it and returned to Blacker to watch the Oxy capers. John Rogers, however, was at said Theatre Party with Barbie, whom he has fascinated *(26) with his incessant bitching about the injustices of this cruel world. This is one technique, but we are doubtful. Don Moore, the chemist, sparked off a spectacular show in the lab and was rushed to the hospital—curiously enough the same hospital where his steady flame *(27) is a nurse. Obviously a new and shrewd angle.

The Fleming lemmings *(28) have at last cleaned out the place but we wish that they wouldn't stack the sweepings out beside

(Continued on Page 6)

24. Cold.
25. Like a Private Eye, only public.
26. Antonym: unfascinated.
27. This is not to be confused with an ordinary type, or guttering, flame.
28. The lemming, not to be confused with Swea'pea's terminology for "lemon", is one of a race of rodents that periodically and in vast numbers migrates across Norway and plunges off the cliffs to the north, there perishing in the North Sea. Too bad.

Campus Barber Shop

In Old Dorm Coffee Shop Bldg.

ALSO

4-DAY LAUNDRY & CLEANING SERVICE

It serves her right!

MARY JANE gives the telephone in her house a real work-out.

But we're not worried a bit. We know Mary Jane's telephone is going to keep right on delivering good service year after year. Because the Bell System puts a lot of time, thought, and testing into making telephone equipment as rugged and trouble-free as possible.

Tests are constantly under way at the Bell Telephone Laboratories. There, for example, new types of telephone instruments are put through a school of hard knocks. Dials and other parts are given strength and wear tests. Even the bottom of the telephone set has been designed and checked to make sure that it will not scratch or stain furniture.

Such tests—on little things as well as on big things—help give you the world's best telephone service at the lowest possible cost.



BELL TELEPHONE SYSTEM

In diamonds,

Drives On Campus

For some time, the Board has been very much concerned with the repeated plague of "Charity Drives" on campus and the time has come for some action on this situation. In the past a man has twice a term, and many have voiced an opinion to do completely twice a term, and man yhave voiced an opinion to do completely away with such drives. However, the Institute justly feels that it is good policy for the reputation of the Institute to take part in such drives as the Red Cross, March of Dimes, Community Chest, and WSSF.

The Board, in trying to find a solution satisfactory to both the Institute and the Student Body proposes the following plan as a first step in remedying the situation: All the drives on campus, with the exception of the YMCA, would be consolidated into one yearly drive to be held three to four weeks after the opening of the first term. Itemized cards would be distributed so that donations could be directed to each organization in the proportions designated by the donor. The actual payment could be made at that time or possibly put on the following Institute bill, as wished.

The Board feels that this plan would do away with the continual sapping for donations and the ill feeling that it breeds and yet would help the various organizations that are dependent on such donations. This plan is by no means definite, for the Board is very anxious to get Student Body ideas and opinions before taking any action. To insure the adoption of a policy that will meet with your approval, please talk over this situation with some member of the Board.

ASCIT Finances

In accord with the ASCIT Board of Directors' concern for the financial condition of the ASCIT, Ralph Lovberg last week in this column explained the exact situation as it existed and the possible solutions to the problem in an effort to arouse some thought and comment from the Student Body so that the Board could have some idea just how the Student Body felt before making a definite decision.

The result seemed to be that, for the most part, the Student Body did not want to cut down on ASCIT activities nor did it want to raise the dues unless it were absolutely necessary in order to put the ASCIT on a sound financial footing.

It is requested that the Student Body continue to discuss the situation while the Board makes a further study of just what would be the best remedy.

Your opinions will still be greatly appreciated by any Board member.
Ollie Gardner

Who Dealt This Mess By Carl Fox

The hand for this week is one of the more difficult to be found in the tournament. Unfortunately it was incorrectly printed last week, the East and West hands being correctly labeled, but reversed in position.

S A 8 7 2	H K 10 6	D A K 5	C 9 4
H J 8 7 2	N	S K J 9 5	E H A Q
D 10 9 7 6 3 2	W	E D Q J 8	C A J 10 5
C K Q 3	S	S Q 10 6 4 3	H 9 5 4 3
H 9 5 4 3	D 4	C 8 6 2	C 8 6 2

East dealer, North-South vul.

The suggested bidding is

E	S	W	N
1C	2NT	3D	5D
P	P	4D	P
P	P	P	P

North's first round pass may be debated, but it looks like a good trap pass from where he sits.

Par on the hand is for East-West to bid and make game. This begins to appear difficult after the first three tricks, for North must open the King of trumps, and, upon seeing the board, gleefully follow with the Ace and five.

Now, even though the Heart finesse holds, West is left with a potential Heart loser, no matter how he squirms.

GAD!

How many magazines does it take to fill a baby carriage?

One Mademoiselle, one Country Gentleman, a Look, a few Liberties . . . and Time.

The best play is to win the third trump round in East and lead a low Spade. Perhaps South holds the Ace, but not the Queen, and will come up. When this does not happen, the Spade is ruffed, and Declarer returns to dummy with a Club, to lead and ruff another Spade. Perhaps the Ace or Queen will drop. When this too fails, he is reduced to taking the Heart finesse and running Clubs. This is a last desperate try for some sort of end play, and it works. North must blank either the Ace of Spades or the Heart King. By astute discarding, South may put Declarer to a guess. But he will still win by making the natural assumption that North blanked the honor in the suit from which he discarded at the only opportunity. To make the play clear, the hands at the time of the last Club lead are

S A 8	H K 10 6	D C	E S
H J 8 7 2	N	S K J 9 5	H A D C
D 10	W	S Q 6	J
C	E	H 9 5	C

The last Club lead forces a discard from the North hand. Whichever suit North drops is next led from East. If it was a Spade, the lead is ruffed and the Heart Ace serves as entry to the good King of Spades. If it was a Heart, the Heart Ace is led, dropping the King, a Spade is ruffed as an entry, and West's Heart Jack is good, fulfilling the contract.

For next week consider—

S Q J 3	H K 8 4	D J 7 5	C A K 5 2
H Q J 10 6	D 10 4	C 9 8 3	S A 7 2
H 10 8 6 4	H Q J 10 6	H 9 7 3 2	H A Q 9
D 10 4	C 9 8 3	C 10 7 6	C 10 7 6

West dealer, East-West vul.

Summer Course At Bolivian University Offered This Year

As part of a program to further cultural relations between the United States and Bolivia, the University of San Andres in La Paz is offering during July and August of this year a series of courses in Spanish and cultural subjects dealing with Latin America for North American students and teachers.

Archeology Too

A Special Summer Session at the University of San Andres in La Paz, beginning July 4 and closing August 16, 1949, will offer to North American students and teachers courses in Spanish, Latin American Literature, Bolivian Archeology, Latin American History, Bolivian Art and Folklore, Social Aspects of Bolivia, and Economics of Bolivia. Pamphlets containing complete information about the Summer Session may be obtained from the Institute of International Education, 2 West 45th Street, New York 19, N. Y. Applications for admission should be submitted before May 31, 1949.

The immediate purpose of the Summer Session is to offer North American students and teachers the opportunity to study under the guidance of specially trained professors in one of the best South American universities, to become acquainted with Bolivian modes of life, and to improve their knowledge of the Spanish language through direct contact with Spanish-speaking people. Its ultimate purpose is to further mutual good-will and understanding among the peoples of the Western Hemisphere.

Heart of Andes

Centrally located in La Paz, a picturesque city in the heart of the snow-capped Andes, San Andres University is ideally situated for anyone who wishes to familiarize himself with the history, geography and sociology of Bolivia through personal observation and experience.

Caltech Y Will Hear Dr. Koo Next Week

Next Thursday night, April 21, is the date set for the 33rd annual meeting of the Caltech Y. This meeting will be a dinner affair at the Athenaeum and will present as its main speaker of the evening, Dr. T. Z. Koo.

Dr. Koo, an excellent speaker and perhaps the best known Chinese here in America, has been working with students and student groups around the world since 1919.

During the war he was a virtual prisoner of the Japanese, but in 1944 he made his escape from Shanghai to Chungking disguised as a peddler. A year later he came to the U.S. as adviser to the Chinese delegation at the San Francisco U. N. Conference.

For the past three years he has been on a speaking tour of the United States, Canada, the Caribbean and South America. Here at Tech he will talk on "Students and the New World Order."

Other events on the program will be short reports from the student officers of the Y and a selection by Dick Taylor, '51, on his violin. Dean Paul Eaton will serve as toastmaster.

For reservations see Joe Can, Dabney, Bob Crichton, Ricketts, Vern Edwards, Fleming, Fred Drury, Blacker, and John Lewis, off campus. Reservations should be in by April 21.

All courses will be given in Spanish. To supplement those mentioned above, the students of the Summer Session will be offered a series of evening lectures by outstanding Bolivian intellectual leaders.

The cost of the Summer Session is very low, tuition and fees totaling \$80, and room and board for the entire six weeks ranging from \$50 to \$130. Students may live in the homes of cultured Bolivian families, in hotels, or in "pensiones."

(Continued on Page 6)



Smoke a LUCKY to feel your LEVEL best!

Luckies' fine tobacco picks you up when you're low . . . calms you down when you're tense—puts you on the Lucky level! That's why it's so important to remember that LUCKY STRIKE MEANS FINE TOBACCO

—mild, ripe, light tobacco. No wonder more independent tobacco experts—auctioneers, buyers and warehousemen—smoke Luckies regularly than the next two leading brands combined! Get a carton of Luckies today!

L.S./M.F.T. — Lucky Strike Means Fine Tobacco

So round, so firm, so fully packed — so free and easy on the draw

COP., THE AMERICAN TOBACCO COMPANY

5¢

BOTTLED UNDER AUTHORITY OF THE COCA-COLA COMPANY BY
COCA-COLA BOTTLING CO. OF LOS ANGELES

© 1949, The Coca-Cola Company

And a Refreshing Pause Helps You Get There, Too



BOTTLED UNDER AUTHORITY OF THE COCA-COLA COMPANY BY
COCA-COLA BOTTLING CO. OF LOS ANGELES

© 1949, The Coca-Cola Company

Mountain Party Set For Blacker House

Marie Wilson Helps Dabneyites Relax

Saturday evening Blacker will take to the mountains for a picnic and party at a secluded camp in the Santa Anita Canyon. The two mile hike into camp, followed by horseshoes, volleyball, badminton, pingpong, and general horse play should whet some hardy appetites for camp cooked wieners.

After dinner there will be dancing in the camp lodge or lounging by the campfire under a full moon. After a few hours of this restful mountain atmosphere the guys and gals should be ready to stagger back over the trail homeward.

Exchange

Last Saturday night saw the Blacker lounge crowded with a group of lovelies from the Eagle Rock institution, and a large turnout of Blacker hosts. Carl Hildebrand and Frank Bumb were responsible for the entertainment.

Bowling Party Set By Throop Clubbers

Throop Club members and dates will be bowling 'em over on the upper deck of the Pasadena Bowling Courts, 970 E. Colorado, on Saturday night, April 16, from 7:00 to 9:00 o'clock. Refreshments and dancing will be featured in Throop Lounge afterwards.

Caltech Pharmacy

COURTESY . . SERVICE
SATISFACTION
Dependable Registered Pharmacists
Prompt Free Motor Delivery
882 East California Street
SYcamore 2-2101
Pasadena, California

Vogel & Cathey

MEN'S CLOTHING
FURNISHINGS
Fridays till 9:30 p.m.
459 East Colorado Street
Sy. 2-3871 - Pasadena 1



881 E.
Colorado

SPRING'S HERE

SWIM WEAR . . .
SPORTS WEAR . . .
AT YOUR COLLEGE SHOP

Fowler & Schrader

"Men's Distinctive Fashions"

like cream hair tonics?

Here's the cream of them all!

contains Viratol*

NEW FORMULA WITH VIRATOL* works wonders in the looks of your hair. It looks natural... it feels natural... and it stays in place! Try a bottle.

*This special compound gives lustre... keeps hair in place without stiffness.

Vaseline CREAM HAIR TONIC
For soft, glossy hair and daily care of the scalp
NET. 5 FL.OZ.
Chaseburg Mfg. Co., NEW YORK, N.Y.

new Vaseline cream hair tonic

Schussing with the Shoose

After Dabney edged through on the first leg of the Lilly Inter-house Ski Tourney, Ricketts came home in the stretch this last Sunday to pull enough points to retire the trophy for another year. The total points rung up for the trophy are as follows:

Ricketts 194.8

Dabney 183.2

Fleming 155.6

Blacker 96.7

Gardner

Individual honors go again to Olly Gardner, who also won first place in the first meet about six weeks ago. A close second went to Fleming's Dick Jones, who has done somewhat better in the recent intercollegiate competitions. The individual times for this race are (for two runs):

Olly Gardner, Ricketts 49.3 sec.

Dick Jones, Fleming 50.4

Jim Blom, Dabney 52.4

Dick Schuster, Fleming 54.4 tie

Blouke, Carrol, Ricketts 56.4 tie

Pete Price, Ricketts 58.8

Bob Stanaway, Dabney 59.6

Pete Mason, Blacker 62.7

About Over

It looks as if the skiing is about over this season for the majority of our skiers. This weekend, for the first time, bare spots and mesquite were showing through on the ski slopes at Snow Valley. The recent hot weather has melted the snow away by the foot. It is strictly spring skiing. Shirts are off, and the spring wax is on. The sun was so hot last weekend that it was almost unbearable.

Still Snow

The word has it that as soon as the Bowl is finished, Johnny Elvirum is going to open up the Slide Peak area for more Spring skiing. He did this last year, when there wasn't nearly as much snow, and there was fine skiing up into the first of May. Don't let me discourage anyone, though. There is still plenty of good spring skiing at Snow Valley proper if you aren't too particular and haven't been spoiled

(Continued on Page 6)

Plans

Further affairs during the term include, in addition to the ASCIT functions, a May Day workers' dance with appropriate costume the requirement for admission, a gala barn dance with Blacker and Throop, a solid stag, department store gal exchange, and a big semi-formal dinner party at term's end. And then there's always record dances and beach parties to take care of the days in between.

CALTECH BARBERS

on California Near Lake

PASADENA BOWLING COURTS

970 East Colorado

Headquarters of Caltech Bowlers
Open 11 a.m. to 1 p.m. SY. 3-1341
Special Student Rate before 6 P.M.
except Saturday, Sunday, and Holidays
20c Per Line

DU PONT Digest

For Students of Science and Engineering

Chemists in Pictures

How DuPont and studio scientists solved the problem of noisy film

Who'd ever expect to find DuPont chemists in Hollywood? When motion pictures suddenly started to talk, a whole new series of perplexing scientific problems was born, not the least of which was "noisy" film.

As you know, sound is usually recorded directly on film. If you hold a strip of motion picture film to the light, the sound track is seen as a narrow band of irregular lines. A light ray passing through the moving sound track falls on a photocell with rapid interruptions or changes in intensity. The photocell converts these interruptions into electrical impulses which, amplified, reach the theater audience as voice and music.

If the film has a coarse grain structure, it tends to give lines that are not sharp and uniform in density. Such irregularities interrupt the light ray—come out as distracting noise.

What could be done about it? DuPont scientists of the Photo Products Department started a program of research, in cooperation with tech-

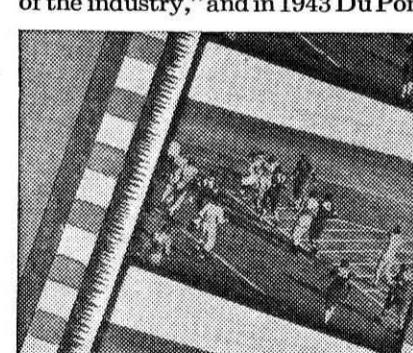
nical experts from the studios in Hollywood. They made and tested scores of film coatings. Finally there were developed films of exceedingly fine grain structures.

M-G-M and Paramount were among the first to use the new type DuPont films. The development was heralded by the press as "another milestone in the technical progress of the industry," and in 1943 DuPont



W. L. Foy, Ph.D. in Physical Chemistry, Clark University, 1947, and A. C. Lapsley, Ph.D. in Physics, Virginia, 1947, discussing details of Color Densitometer Wiring Diagram used in connection with research on color photography.

outstanding achievements, two of which have been recognized by "Oscars."

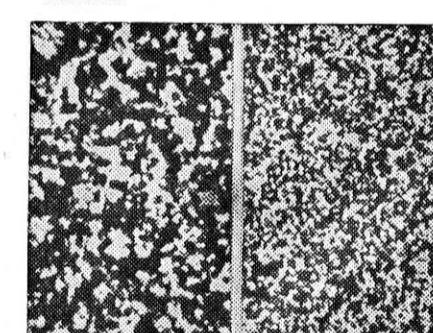


Voice and music appear as a continuous band of irregular lines on this movie sound track. Any irregularity means noise.

received an Academy Award of Merit for its achievement. Now the use of fine grain films is practically universal in Hollywood. Actors, actresses speak their lines, with no technical restrictions to cramp their artistry.

You may have a place in DuPont research

Had you been a member of a DuPont Photo Products research team since 1931, you might have shared in many



In coarse grain films, the particles of silver are large and scattered. Compare with DuPont fine grain film, right. (Magnified 1000 times.)

The Photo Products Department, however, is just one of ten DuPont manufacturing departments, all of which engage in continuous research. Operated much like separate companies, each holds challenging opportunities for young, college-trained chemists, engineers and physicists. DuPont not only tries to select young men and women of promise, but makes a conscientious effort to help each one develop as rapidly as possible. Whatever your interests, you will find here the cooperation and friendly interest you need to do your best. As a member of a small, congenial working team, your ability can be seen, recognized and rewarded.

DU PONT

REG. U.S. PAT. OFF.

BETTER THINGS FOR BETTER LIVING . . . THROUGH CHEMISTRY

More facts about DuPont—Listen to "Cavalcade of America" Monday Nights, NBC Coast to Coast

Caltech Sports Calendar

Third Term

Date	Time	Event	Teams Competing	Place
Tue. April 12	4:15 PM	Baseball	Varsity vs. Pepperdine	Tournament Park
Fri. April 15	1:30 PM	Golf	Varsity vs. Pomona	Caltech
Sat. April 16	1:30 PM	Tennis	Varsity vs. Pomona	Tournament Park
	1:30 PM	Tennis	Frosh vs. Pomona	Pomona
	2:00 PM	Track	Var. & Frosh vs. Whittier	Whittier
	2:15 PM	Baseball	Varsity vs. Pomona	Tournament Park
	2:15 PM	Baseball	Frosh vs. Pomona	Pomona
Tue. April 19	4:15 PM	Baseball	Varsity vs. Chapman	Tournament Park
	4:30 PM	Swimming	Var. & Frosh vs. Occidental	PCC
Fri. April 22	1:30 PM	Golf	Varsity vs. Redlands	Caltech
	4:00 PM	Swimming	Var. & Frosh vs. Redlands	Redlands
Sat. April 23	1:30 PM	Tennis	Varsity vs. Redlands	Tournament Park
	1:30 PM	Tennis	Frosh vs. Redlands	Redlands
	2:00 PM	Track	Var. & Frosh vs. Occidental	Tournament Park
	2:15 PM	Baseball	Varsity vs. Occidental	Occidental
	2:15 PM	Baseball	Frosh vs. Occidental	Tournament Park
Fri. April 29	1:30 PM	Golf	Varsity vs. Whittier	Caltech
	3:00 PM	Tennis	Frosh vs. Whittier	Tournament Park
	4:30 PM	Swimming	Var. & Frosh vs. Pomona	PCC
Sat. April 30	1:30 PM	Tennis	Varsity vs. Whittier	Tournament Park
	2:00 PM	Track	Var. & Frosh vs. Redlands	Redlands
	2:15 PM	Baseball	Varsity vs. La Verne	Tournament Park
Tue. May 3	4:30 PM	Baseball	Frosh vs. Muir	UCLA
	4:00 PM	Swimming	Varsity vs. UCLA	Redlands
Fri. May 6	1:30 PM	Golf	Varsity vs. Redlands	Pomona
Sat. May 7	1:30 PM	Tennis	Varsity vs. Pomona	Tournament Park
	1:30 PM	Tennis	Frosh vs. Pomona	Redlands
	2:00 PM	Track	Var. & Frosh Conference Meet	Occidental
	2:00 PM	Swimming	Var. & Frosh vs. Occidental	Tournament Park
	2:15 PM	Baseball	Varsity vs. Redlands	Redlands
	2:15 PM	Baseball	Frosh vs. Redlands	Tournament Park
Wed. May 11	3:00 PM	Tennis	Varsity vs. Occidental	Tournament Park
	4:15 PM	Baseball	Varsity vs. East LAJC	Tournament Park
Thur. May 12	3:00 PM	Swimming	Var. & Frosh Conference Prelim.	Occidental
Fri. May 13	1:30 PM	Golf	Varsity vs. Pomona	Pomona
Sat. May 14	1:30 PM	Tennis	Varsity vs. Pepperdine	Pepperdine
	2:00 PM	Swimming	Var.-Frosh Confer. Meet-Finals	Occidental
	2:15 PM	Baseball	Varsity vs. Pomona	Pomona
	2:15 PM	Baseball	Frosh vs. Pomona	Tournament Park
Tue. May 17	4:15 PM	Baseball	Varsity vs. Cal Poly	Tournament Park
Fri. May 20	9:00 AM	Golf	Conference Varsity Tournament	Whittier
	1:30 PM	Tennis	Var.-Frosh Conference Tourney	Redlands
Sat. May 21	9:00 AM	Tennis	Var.-Frosh Conference Tourney	Redlands
	2:15 PM	Baseball	Varsity vs. Occidental	Tournament Park
	2:15 PM	Baseball	Frosh vs. Occidental	Occidental
Fri. May 27	1:30 PM	Golf	Varsity vs. Santa Barbara	Caltech
Sat. May 28	2:15 PM	Baseball	Varsity vs. Redlands	Redlands
	2:15 PM	Baseball	Frosh vs. Redlands	Tournament Park

WRITE TODAY for "The DuPont Company and the College Graduate"

Thinclads Take Honors Against LAS and Loyola

**Beavers Roll Up 83 1/2 Points In
Night Track Fest, Nine First Places**

Caltech's varsity trackmen turned night-hawks last Friday as they walked away with the honors in a three-way meet with Loyola University and Los Angeles State College on the LACC field. The Beavers rolled up 83½ points as they took 9 first places, as compared with 51½ for Loyola and 27 for LA State.

Schroeder High Scorer

The night air really suited Tech's Dwight Schroeder as he scored 15 points with firsts in both the hurdle races and the broad jump to lead the individual scorers. None of his marks were exceptional, but one of his jumps on which he barely fouled came dangerously close to the school record of 22'5".

Mason Takes Two-Mile

The best mark of the meet was made by Tech sophomore Pete Mason, as he took the two-mile in the time of 10 min. 21.5 sec. This is several seconds better than has been seen in our conference in several years, so a good race is in the offing when he runs up against Redlands' Ed Livengood, last year's champ in this event.

Several men on the squad also took to the night air and came up with their best marks to date. Jack Marshall lowered his mile time to 4:40.7, and Doug Brown took the 880 in 2:01.9. Hal Tyson took first in the shot with a good put of 47'11", while Martin Walt took it easy in taking the pole vault at 12'3".

Williams of LA State took the two dashes on the choppy track in the good times of 9.9 and 22.6.

Whittier Saturday

This Saturday the Beavers return to conference competition as they travel down to Whittier for a meet starting at 1:30 p.m. Last Saturday Whittier lost to Oxy, but by a closer score than was predicted by dopesters, so the Engineers will have to work hard this week. If the squad is

(Continued on Page 6)

Talkin' It Over With The Goon

The sun finally broke through the overcast last weekend and brought along a little joy to Techville. I don't want to say that the Hustler was excited or anything, but this was the first time I have ever seen a man smoke three Corona-Coronas simultaneously. There was truly reason for the Hustler's unbounded happiness, for the great athletes of the Institute brought home four—not one, not two, not three—but four victories in four varsity sports.

Chandler

With Otis Chandler's face spread far and wide throughout the lily white pages of the Times there was barely room enough to mention that the Beavers smashed the favored Poets on the Tournament Park diamond by staging an eighth inning rally that completely upset the Whittierites. Once again the lions share of the credit goes to that ball of fire—Lou Stallkamp who not only hit three for four (single, double, and home run), but played flawlessly on the field. Lou is an example of the athlete who thinks his game, instead of just playing it. And when the roses are passed out, quite a few should go to Easy Ed who has brought these boys a long way.

Netters

Lamb's lobbers are rapidly approaching a league championship. Saturday they swamped our little pals from Eagle Rock 7-2 lead by some mighty high class playing by Sid Stone and Ed Alexander. Probably this issue of the paper will devote another three and a half columns to Tennis (Butler plays this sport, you know) and not much need be said. However, this Saturday is the play for the blue chips with Pomona; might be worth your while to see the matches.

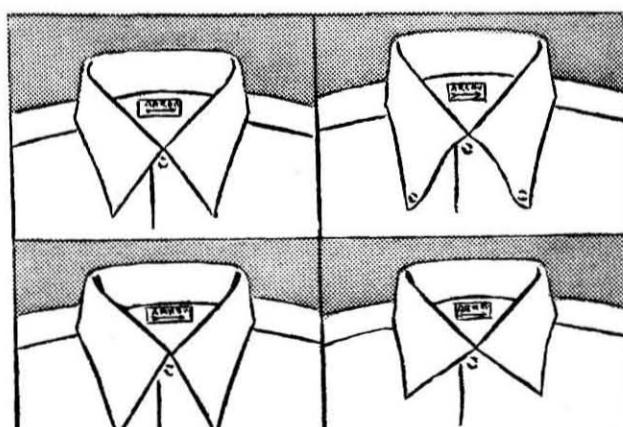
Both the swimmers and the tracksters faced rather light competition last weekend, but will bump heads with a couple of toughies this week. The track lads journey out to meet Whittier. This is not as easy as it seems, since the Poets put up a good fight against Oxy who were favored to run the Purple and Gold off the track. The hurdlers have a great deal, they get to

(Continued on Page 6)



a favorite Easter Habit!

... for many an Easter, college men have favored the fine fit and good looks of



Arrow White Shirts

Both oxfords and broadcloths in your preferred collar styles are now available at your Arrow dealer's. See him today for an Arrow white shirt and Arrow tie. Shirts \$3.65 up, Ties \$1.00 up.

ARROW
SHIRTS and TIES

UNDERWEAR • HANDKERCHIEFS • SPORTS SHIRTS

Beaver Sports

SAFE!



Walt Pfeiffer slides into third safely in Saturday's game against Whittier at Tournament Park. Poet Kincaid goes through contortions as second baseman Erbe looks on. The Engineers won in the eighth with a four run rally for a 9-7 victory.

Swimmers Splash Easy Over Bulldogs; UCLA Tougher

Last Thursday the swimming team started off the weekend of Tech victories with a 64 to 11 win over the Redlands swimming (using the term loosely) team. The only event in which Redlands managed to do better than third was the diving which they won. The frosh, too, won their meet. Since Redlands had nothing but free stylers the breast and back strokers were idle, at least in their specialties. Weil took third in the 220 (swimming backstroke most of the way) and Cagle won the 50, beating the winning varsity time by half a second.

UCLA Different

The meet with UCLA on last Tuesday was quite different. Tech was on the short end of a 50 to 25 score. The only Tech blue ribbon went to Libbey in the 220. The rest of them was s.o.p. around Tech. Our team put up a game but losing battle against tremendous odds. We hope that the next time we meet UCLA we will make a better showing (maybe some of them

will die or break a leg).

Waves

Today the swimming team has a meet with Pepperdine in the PCC pool at 4:30. There are no rumors or anything about this meet. Pepperdine is an entirely unknown quantity. Next Tuesday is the first of the meets with Oxy. The outlook is pretty dim for Tech. There are a few glimmers of hope such as Libbey but not too much should be hoped for—then maybe we'll be surprised. It will be a good meet anyway and we'll see you all up at the PCC pool at 4:30 next Tuesday.

The Redlands results:

Medley Relay, Caltech (Houser, Palmer, Montgomery) 3:28.0.
220 yd. Libbey (T), Curran (T), Holmes (R) 2:35.5.
50 yd. Eschner (T), Harris (T), Wheeler (R) :27.6.
100 yd. Yonkers (R), Hammond (T), Riencke (T).
100 yd. Houser (T), Water (T), Holmes (R) 1:05.3.
150 yd. Back, Montgomery (T), Hall (T), Jones (R) 2:00.0.
200 Breast, Palmer (T), Boicourt (T), Model (R) 2:52.8.
440, Libbey (T), Curran (T), Holmes (R) 5:58.7.
Relay, Caltech (Eschner, Houser, Johnson, Harris) 4:23.0.

We have Arrow White Shirts for Easter



Come in quick and take your pick from our selection of fine white Arrows—both oxfords and broadcloths in many collar models. See our new Arrow ties, too!

Oxfords from \$3.95—Broadcloths from \$3.65

HOTALING'S

TWO STORES FOR MEN
54 E. COLORADO ST. 921 E. COLORADO ST.

ARROW UNIVERSITY STYLES

Engineer Baseballers Drop Whittier 9-7 Beavers in First Poet Victory After Many Years; Stallkamp Stars

The Caltech Beavers pounded out a 9-7 victory over the Poet nine at Tournament Park Saturday in a game featuring fast play on both sides. Whittier got its 7 runs by stealing 10 bases and out-hitting the Techmen 11-7.

Lambies Swat Oxy By the Score 7-2; Face Pomona Here

Last Saturday Johnny Lamb's tennis team continued its winning ways in conference play by soundly trouncing Oxy on the Tiger's home courts by the score of 7 to 2. The Engineers' only losses were in first singles, where Sid Stone was downed by Oxy's Jack Simpson, who remains undefeated and is conceded to be the top player in the conference and the loss in the first doubles where Simpson teamed with Moore to overpower Tech's doubles duo of Stone and Nobles.

Under a blazing hot sun Ed Alexander edged Oxy's Bob Moore by the score of 4-6, 8-6, 6-4. After being within a few points of defeat in the second set, Alexander fought back to finally take the set and then continued on to victory in the deciding stanza. Larry Nobles ran into unexpected opposition in the second set against Al Lasbury, but succeeded in winning out by scores of 6-3, 8-6. Jack Martin got off to an impressive start but then found his opponent strengthening to the extent that a third set was required before Martin could overcome Bob Mueller 6-2, 5-7, 6-4. Jack Poindexter started slowly but finally hit his stride, getting stronger as the match progressed to gain a 4-6, 6-3, 6-2 victory. Dean Blanchard overpowered Oxy's Dick Schauer by decisive scores of 6-0, 6-0, with a tremendous display of crisp volleys and smashes.

In the remaining doubles matches, Alexander and Martin downed Oxy's Lasbury and Mauler by the count of 2-6, 6-1, 6-4, while Poindexter and Blanchard teamed together to win in straight sets over Schauer and Brigham 6-0, 6-1.

This Saturday afternoon the undefeated Pomona netters journey to Pasadena to oppose the Beavers on the Tournament Park courts in what promises to be a tight match to decide the league leadership.

Summary:
Simpson (O) def. Stone (CT) 6-3, 6-3, Alexander (CT) def. Moore (O) 4-6, 8-6, 6-4.
Nobles (CT) def. Lasbury (O) 6-3, 8-6, Martin (CT) def. Mauler (O) 6-2, 5-7, 6-4.
Poindexter (CT) def. Fulton (O) 4-6, 6-3, 6-2.
Blanchard (CT) def. Schauer (O) 6-0, 6-0, 6-0.
Doubles:
Simpson-Moore (O) def. Stone-Nobles 6-2, 6-3.
Alexander-Martin (CT) def. Lasbury-Taylor 6-2, 6-1, 6-4.
Poindexter-Blanchard (CT) def. Schauer-Bigham 6-0, 6-1.

Ice Skating

Daily 2:30 to 5, 7:45 to 10:45
Sat. & Sun. Morn. 10 to 12:30
Skates for Rent
Instructions

Pasadena Winter Gardens

171 South Arroyo Pkwy.
SY. 2-7151 RY. 1-6066

YOUR COLLEGE SPORTS SHOP

Headquarters for
Sporting Goods

WYNN MACE Tennis Shop

Phone SYcamore 6-5804
912 EAST CALIFORNIA ST.
Pasadena, Calif.

SPRING

SPORTS

OUR STOCKS ARE COMPLETE

for

BASEBALL—TENNIS GOLF—SWIMMING

Chamberlain Athletic Co.

27 SOUTH EL MOLINO

Next to Pasadena Playhouse

SY. 6-4161

ARTS AND CRAFTS

(Continued from Page 1)
this year than last, and they were of better quality, according to Mrs. Beadle, who was in charge of the show.

Well Received

The show was well received by the art critics. Kenneth Ross of the Daily News devoted considerable space to it in his column. In line with the enthusiastic reception by the public and critics, closer cooperation from the Institute itself is hoped for in next year's show.

SANTA ANITA

(Continued from Page 1)
cal at the other four colleges. Grads and alums, as well as undergrads are equally welcome, although ASCIT promoters, remembering the response to the 1947 Tri-College Dance are not expecting diffidence nor shyness.

There will be two departures from the 1947 event, however. The ballroom itself is far larger and more suitably arranged than was the Turf Club room, and furthermore the flowery Paddock is expected to prove a popular attraction for Tech's nature lovers. Moreover, there is universal agreement on mode of dress: this year, it is informal—that is, date dresses and ties.

BASEBALLERS

(Continued from Page 5)
league this year. Whittier was one of the big guns in the conference, having won 3 and lost one, and a tremendous victory over Pomona by an unbelievable score of 25-3.

Box:	AB	H	O	A
Patterson, cf	4	1	0	0
Pfeiffer, 3b	4	1	2	0
Stallkamp, 2b	4	3	6	3
Norman, ss	4	1	2	0
Petrulas, c	4	0	1	0
Morrison, lf	3	0	2	0
Kam, rf	3	1	0	0
Baker, rf	0	0	0	0
Neverman, 1b	3	0	13	2
Hedrick, p	4	0	1	5
	32	7	27	19
Whittier	AB	H	O	A
Stecklein, lf	4	1	0	0
Elias, cf	4	1	2	0
Cox, ss	3	0	2	4
Hill, 1b	5	1	9	0
Nuffer, rf	2	0	0	0
Pelton, rf	1	0	0	0
Erbe, 2b	4	3	2	0
Kincaid, 3b	4	3	1	2
Byreus, c	4	2	8	0
Galvez, p	3	0	0	3
Zrenicke	1	0	0	0
	35	11	24	10
Caltech	Runs	4	0	1
	Hits	1	1	0
	Errors	1	0	0
	3	0	0	0
Whittier	Runs	2	0	1
	Hits	0	1	2
	Errors	0	0	1
	2	0	0	1
	3	0	0	1
	7	0	0	1
	Hits	2	2	0
	2	0	1	2
	0	0	1	0
	1	0	0	1
	11	0	0	1
Mr. Stallkamp; 3b Erbe, Norman; 2b Stallkamp, Elias; errors, Pfeiffer, Norman (2); Petrulas, Kincaid (2); SB, Whittier 10, Caltech 2; double plays, Stallkamp-Neverman; Hedrick - Norman - Neverman. Scoring for Caltech, Patterson, Pfeiffer, Stallkamp (3), Norman (2), Petrulas (2).				

THINCLADS TAKE HONORS

(Continued from Page 5)
in good condition, it should mean a win.

Results:
Mile: Marshall (T), Cornelius (T), Selby (T), Erbe (L) :40.7.
440: Newman (L), Sylves (T), Brown, E. (T), Hawkins (L) :52.1.
100: Williams (LAS), Celentano (L), Shaller (T), Costello (L) :09.9.
High Hurdles: Schroeder (T), Marshall (T), Hoyt (L), Haskel (L) :16.3.
880: Brown, D. (T), Cornelius (T), Winston (L), Edwards (T) 2:01.9.
220: Williams (LAS), Celentano (L), Shaller (T), Madden (T) :22.6.
2 Mile: Mason (T), Peterson (T), Cobb (T), tie-Burley (L) and Jaenich (L) 10:21.5.
Low Hurdles: Schroeder (T), Mondor (L), Edmonds (LAS), Haskel (L) :25.6.
Mile Relay: Caltech (Sylves, D. Brown, Simons, Barnes), Loyola, 3:33.1.
High Jump: Tie-B. Brown (LAS) and Webb (LAS), tie-Heggland (T) and Hoyt (L) 5'10".
Shot: Tyson (T), Purkrop (L), Purcell (L), Schopfield (T) 47'11".
Pole Vault: Walt (T), Tingler (LAS), Smith (LAS), Richardson (LAS) 12'3".
Javelin: Celentano (L), E. Brown (T), Herzog (T), David (L) 145'5".
Discus: Purcell (L), Celentano (L), Tyson (T), Purkrop (L) 135'9 1/2".
Broad Jump: Schroeder (T), Hoyt (L), Heggland (T), Edmonds (LAS) 20'11".

DuBRIDGE STATES

(Continued from Page 1)
3. The standards of higher education must be maintained; and the privileges of higher education should be extended to "all those who are intellectually qualified to meet them."

Federal Control

4. "Federal support without Federal control" is not only meaningless and unrealistic, but is essentially an immoral motto whose only result is to mislead and confuse.

Therefore, since direct Federal subsidies bring federal control and probably interference with academic freedom, direct federal subsidies are undesirable.

Scholarships

However, "Properly administered—and cancellable—research contracts may be of advantage to the university and the government... They do not solve the needs for buildings or endowment; and they do not open the door of Federal control." Dr. DuBridge also endorsed Federal scholarships to promising students.

Highest Order

"Scholarship is a delicate flower. Though its hardy roots have survived a thousand years of persecution, its blossoms have come to full glory only in a few places and at few times in human history. Here in America today it is thriving as in no other place at no other time. And even here

RUNOFF ELECTIONS

(Continued from Page 1)
pect in this race.

Frosh

The Frosh eliminated many from their bulging primary ballot, but Norm Gray and John Nobles are still in the running for the presidency. Peter Pauling and Don Tautz are competing for the vice-presidential office, while Al Haber was elected to the pencil pushing position. For treasurer, it's a four way affair among Dick Dickinson, G.I.I. Kitching, Carl Larson, and John McCool. Leon Michaelson was elected Athletic Manager, while John McCourt, Jack McEwing, and Bill Wise will try for the majority in the board of control race.

it thrives best only in those places where its freedom is most nearly unrestricted. We shall not want to run even the remotest danger of destroying this flower. Rather we need to redouble our efforts to insure the flourishing of scholarship of the highest order.

Progress

"I think no one can argue that the positive way to insure this development is to throw our private universities into the lap of the federal government. Much as we may welcome the government as purchaser of some of the services rendered by our universities we do not welcome it as an owner of the business. Freedom and progress for education and research do not lie in that direction."

SCHUSSING

(Continued from Page 4)
by the superlative skiing of this past winter.

Small Crowds

The crowds haven't been so large since vacation, with the result that the hut is looking very clean. We are waiting now for the las tsnow to go so that we can start our Spring construction. A good-sized treasury plus a lot of help from the Tech Service League is going to enable us to get a lot of good construction accomplished before the summer vacation. Be sure and watch the paper and this column for our first weekend work party.

SUMMER COURSE

(Continued from Page 3)

In addition to visits to points of historical and cultural significance within the city of La Paz, free week-end excursions to Tiahuanacu, Copacabana, Sorata and other places of special interest to foreign visitors will be offered by the University. At the end of the six-weeks course students will be given an opportunity to travel throughout the republic.

Switzerland of West

Since Bolivia is the most centrally located of the South American republics, it affords an ideal point from which to travel to other parts of the continent. Bolivia itself, however, is regarded by most North Americans as the most picturesque and colorful of all the countries of South America. Because of its rugged mountain ranges and its landlocked position, it has often been called the Switzerland of the Western Hemisphere.

CAMPUS BREWINS

(Continued from Page 2)
the house. Now all the houses are treated to the Eau de Bull.

The spirits of Ricketts and Blacker ran amuck Monday night in a grim water battle, with Blackerites rallying to the rousing strains of the William Tell Overture, blasted forth from Pre-vost's mighty amplifier. *(29) For the first time in recorded history, Blacker and Ricketts men got together, drafted a few Dabneyites, and assaulted Fleming in their very court. There the Saltman, Long, Bass, Walquist, Hibbard, and Charles Atlas team promptly made them curse the inspiration; Sioux, Cuse, Laff, *(30) Dickinson, and others now look on last Monday as a black day indeed.

The Varsity Club, after Dean Thomas's veto of their fire plugs, have turned to a new, horribly uncomfortable type of burden, calculated to strike fear into the most desperate dog. We foretell that these, too, will be vetoed, because they can be made to stand vertical, and are hence subject to the same fate as a fire plug. It may take a devious mind, but...

29. Sort of an electronic "Bosco."

30. "Laconic" Laff, Dabney's newly elected House Toilet.

TALKIN' IT OVER

(Continued from Page 5)
run the 220 lows around the curves. In fact, it is even rumored that the pole-vault run way is around a curve. This is no meet to have money on since it could very easily go either way.

Splashes

The swimmers tackle Pepper-dine Thursday at the PCC pool. If the Waves have invested as much dough in their mermen as they have in their football squad Marcus' boys will really have to turn on the steam. Not enough cheers have been given to Dick Libby who has been consistently coppering the 100 and 200 in great clockings. Within the next few years Dick should have broken every sprint record in the SCIC—keep your eye on him.

COTTAGE GRILL
915 East California Street
Malts & Sodas..... 20c
Large Savings with
Meal Tickets

**WHEN YOU ARE HUNGRY
WHEN YOU ARE THIRSTY
or
WHEN YOU JUST NEED RELAXATION**

SKIP INN
Beer - Plate Lunches
1352 E. WALNUT
Open Till 2 A.M.

"I like Chesterfield's
MILDER, better taste.
It's MY cigarette."

Joan Crawford

STARRING IN
"FLAMINGO ROAD"
A MICHAEL CURTIZ PRODUCTION
RELEASED BY WARNER BROS.

Oak Knoll
Cleaners
THREE DAY
Cleaning
Service
FOUR-DAY
LAUNDRY

902 East California Street
(4 Doors East of Lake)
SY. 3-6704

The TOP MEN of AMERICA'S SPORTS
smoke CHESTERFIELD

JACK KRAMER says... "MILDERR—MUCH MILDERR...
and really satisfying. That's Chesterfield
and that's MY cigarette."

MAKE YOURS THE MILDER CIGARETTE



A always Buy CHESTERFIELD
MORE COLLEGE STUDENTS SMOKE CHESTERFIELDS THAN ANY OTHER CIGARETTE . . . BY LATEST NATIONAL SURVEY

Copyright 1949, LIGGETT & MYERS TOBACCO CO.