

## 500 Tech Alumni Besiege Campus

Talks, Exhibits, and Festive Dinner Make Saturday Big Day for Visitors

By Larry Starr

It is said that the criminal always returns to the scene of his crime. This may or may not have been the reason for the return of some 500 of Caltech's alumni to the campus last Saturday. This is the Nth annual affair. Mr. Carl Tutschulte, '31, was in charge of the seminar.

After the registration at 8:30 a.m., the alumni heard talks by various professors on a variety of subjects. Fritz Went presented a talk on the research problems at the Earhart Plant Laboratory, a building with almost perfectly controlled atmospheric conditions.

### "Smog Problem"

The smog problem in interstellar space was the topic of Jesse Greenstein. Dean Thomas discussed a problem about which he is particularly well informed, the water problem in Southern California.

The title of a talk given by Albert Engel was "A story from the oldest books in the world." Dr. Engel spoke about the possibility of finding any of the earth's original crust.

### Panel Chitchat

The humanities profs also talked to the alumni. Alan Sweezy, visiting professor of economics, gave a talk on the economic advantages of the cold war. Harvey Eagleson, Carl Nieman, and alumnus Ward Foster, '27, held a panel discussion on the problem of admissions to Caltech. Perhaps one of the most interesting talks of the day was delivered by Hunter Mead, Caltech's popular combination professor and organ grinder, on the psychology of leadership.

### Special Exhibits

The alumni also toured the campus and saw special exhibits in most of the departments. The following are typical of the attractions on the campus tour: the animal farm, the water tunnel, the computing machines, and the M.E. laboratory.

The alumni, wives and guests ate lunch in the student houses and the Athenaeum. Dinner was held in the Masonic Temple. The after dinner speaker was Ray Untereiner, economics professor, who spoke on government spending during this year.

## Film, Talk, At Last CES Meet

Last Monday's CES meeting was highlighted by a speech and a film, both sponsored by the ASCE. The lecture was a general discussion of the U.S. Bureau of Public Health, dealing specifically with sanitary engineering projects in the Bureau. The talk was given by Mr. Omar C. Hopkins, West Coast director of the U.S. Public Health Service.

The second feature was a color film entitled "Underground Arteries." The picture, released by Johns-Manville, depicted the construction and uses of "Transite" pipe. Following the movie, Messrs. Gacaes, Crikscus and Millblad, representing Johns-Manville, answered questions concerning this topic.

## Campus Calendar

**THURSDAY, APRIL 20**  
12:00 Y Upperclass Lunch Club  
12:10 Throop Club Meeting  
7:15 ASCIT Board of Directors Meeting in Lower Fleming  
7:30 Dancing Class in Culbertson

**FRIDAY, APRIL 21**  
11:00 Assembly, Caltech Orchestra Concert  
1:30 Golf, Varsity at Pomona  
3:30 Track, Frosh All Conference Meet at Caltech Athletic Field  
4:30 Swimming, Varsity and Frosh vs. Pomona at PCC.

**SATURDAY, APRIL 22**  
1:30 Tennis, Varsity vs. Redlands at Caltech  
1:30 Tennis, Frosh at Redlands  
2:00 Track, Varsity All Conference Meet at Oxy  
2:15 Baseball, Varsity vs. Oxy at Caltech  
2:15 Baseball, Frosh at Oxy

**TUESDAY, APRIL 25**  
12:00 Y Frosh Lunch Club

**WEDNESDAY, APRIL 26**  
7:30 Orchestra Rehearsal in Culbertson  
9:00 Glee Club in Culbertson

## Tau Bete Report--Part 2

### Survey Gives Job Openings; Cites More Qualifications

Continuing last week's report on the Tau Beta Pi survey of 17 Los Angeles industries, this week's issue of the Tech will report on opportunities for graduates in local industries and on the national scene, summer job opportunities listed in some of the 17 companies interviewed, personality attributes expected of the college graduate by industry, the importance of participation in extra-curricular activities, and the importance of experience.

\*(The above date was not strictly a part of cmfwypetaoincmfw)

#### Job Opportunities NATIONAL

A 30 percent drop in employment of this year's engineering graduates is predicted by leading industrial concerns, government and state agencies, canvassed in a recent study of 1950 employment programs conducted by the General Survey Committee of Engineers Joint Council. Reporting organizations include 144 industrial companies, and 23 government agencies which are currently employing 91,400 engineer graduates.

A decrease of 28 percent in employment by industrial companies and of 33 percent by government agencies is indicated by the survey.

#### More Chemists, Physicists

Only chemical companies of the large industrial groups do

not expect a decline in employment. In line with this, a decrease of only 5 percent from 1949 is expected in the chemical engineering field, whereas estimated employment decreases in the other engineering fields average about 30 percent.

Graduates in physical science also face reduced employment opportunities, according to the Engineers Joint Council survey. Polled organizations employing such graduates expect a 16 percent drop from last year's figures. Although employment of chemists will probably decrease by 14 percent, a 7 percent increase in employment of physicists is expected.

#### Salaries

Average starting salaries of \$255 a month for graduates with (Continued on Page 2)

## Synchrotron

At this AIEE meeting Dr. R. V. Langmuir, famous physicist, will speak on the general theory, the RF circuit, and the 1,500,000-million-volt pulse transformer for this new particle accelerator.

There will also be a short business meeting to elect new AIEE officers.

Everyone is welcome to attend the talk.

## Whitney Elected Tau Bete Prexy

Bill Whitney is the newly elected president of the Caltech chapter of Tau Beta Pi, national honorary engineering fraternity.

Other officers elected at the chapter meeting held last Tuesday, April 18, were Jim Ibers, vice-president; Dick Taylor, corresponding secretary; Bob Kurland, recording secretary; John Bjerklie, treasurer; Jim McQuiston, cataloguer; and Dallas Peck, social chairman.

#### Past Officers

Whitney took over the president's gavel from Boyd Gage, who held the office during the past year. Other retiring officers were Martin Walt, vice-president; Walter John, corresponding secretary; Fernando Corbato, recording secretary; Victor VanLint, treasurer; Les Goodwin, Cataloguer; and Al Eschner, social chairman.

## CIT Orchestra Elects Calley

New officers for the Caltech orchestra, elected for the coming three terms, are Doug Calley, president, and Dave Elliott, librarian.

Last night the orchestra made its second appearance of the season at a concert for the Caltech Service League. Directed by Mr. Lauris Jones, they performed "Hungarian Dance No. 1 by Brahms; "Polka from Shvanda, the Bagpiper," by Weinberger, and excerpts from a suite by Bach.

#### Needed: Talent!

Caltech students who play orchestral instruments, especially those in the bass range, are welcome to join in the Wednesday night rehearsals in Culbertson. Present members of the orchestra would like to make it an all-Caltech organization capable of giving its own concerts, instead of having to import outside musicians to fill its ranks for programs.

## HOUSE SOCIAL NEWS

### Throop Club Holds Exchange

Perhaps the most memorable, and enjoyable, Stag in the history of Throop Club was held last Saturday night. The entertainment was unique, and the pretzels were judged delicious by several connoisseurs.

An Exchange Dance is planned tomorrow night, with women from Oxy, Pomona and possibly the Huntington Hospital nurses. Also, Co-Social Chairman Rudy DeJong has promised to bring five (5) of his own private girl friends.

Future events include an installation Picnic scheduled for Sunday, April 30. Further details will be furnished in the next issue.

### Darbs Hie to Beach; Preare for Formal

The Dabney troops will go to Emerald Bay again this Sunday for their second beach party of the term. Everything will be there: sun (guaranteed), beer, hamburgers, sand and T.S.

#### Dinner-Dance

Everyone is hereby advised to arrange his date as soon as possible for the Dabney formal a week from this Saturday. Both dinner and dancing will take place in the court, arrangements having been made for a good band. This should be one of the finest dances of the year.

Last Friday the Darbs were hosts to Fair Ones from Huntington Hospital, South Pas High and Oxy.

### Dinner-Dance Saturday For Fleming, Ricketts

Fleming and Ricketts are having their colossal semi-formal dinner-dance this Saturday night. The dancing will be under the stars in Fleming-Ricketts court with Bob Hayworth's superb orchestra playing from nine to twelve.

An excellent ham and turkey dinner will be served at eight o'clock at tables set up under the porticoes. A caterer has been hired in order to assure the Reds and Rowdies relief from Student House food. Fleming is in charge of dance arrangements while Ricketts is planning the dinner.

## Peace from Power To Be First Topic Of Channing Club

Martin Hall, former European correspondent and veteran of the anti-Nazi underground movement, will speak on the effectiveness of U.S. power in holding world peace at the first meeting of the Caltech Channing Club, this Monday at 7:15 p.m. in the "Y" Lounge.

These clubs have already been organized at UCLA, USC and LACC to give the students a chance to air their personal philosophies and unorthodox religious ideas. Mr. Hall will lead the evening's discussion.

## Musicale Plots Piano Concert

The distinguished keyboard talent of Evelyn Smithson will highlight next Thursday evening's Caltech Musicale concert in Dabney Lounge. Everyone is cordially invited to attend this free program, which is scheduled to begin promptly at eight, according to Doug Colley, Musicale president.

The program will be: Prelude and Chaconne from Violin Sonata No. 4 in D Minor by Bach and Busoni; Suggestion Diabolique by Prokofieff; Rachmaninoff's Prelude in E Flat; Chasin's "Shvanda" Fantasy; and Griffes' Sonata for Piano.

#### Renowned Artist

Miss Smithson has been a student at the Juilliard School of Music and is well known locally. A good turnout at this concert will insure the presentation of future concerts by the Musicale, remarked Calley.

Also on the agenda for the future is a concert, scheduled for May 7, to be performed by the Hungarian String Quartet, the group famous for their "Evenings on the Roof" concerts. The Coolidge Foundation is making this latter concert possible by paying half the cost, and general admission will be \$1.20, while students can get in for sixty cents. The program will consist of works by Mozart, Schubert, and Bartok.

This same ensemble gave six concerts here in 1936 to capacity audiences. Tickets will be on sale at the Book Store.

## Concert Band Premiere At 11 Tomorrow Morning

45-Minute Program Will Feature Trumpet Quartet, Trombone Trio

Making its 1950 debut, the Caltech Concert Band will present a diversified program of popular and novelty selections and marches tomorrow at 11:00 in Culbertson.

The band members, directed by Mr. William T. Killgrove, have been working together since last September preparing for the concert.

#### Program

The 45 minute program will include a trumpet quartet and a trombone trio. The quartet, composed of Bob Laff, Bill Sampson, John Marion, and Bob Stanton, will play "Among My Souvenirs"; and the trio, composed of Dick Hyde, Carl Rambow, and Gordon Zentner, will play "Temptation." Other numbers include: "Aces of the Air," "March of the Toys," and "Margie."

#### Center Staging

Last week, when we were hosts to a PCC drama group, Culbertson Hall was re-arranged to accommodate "center staging." In this novel program the acts were presented on a portable stage in the middle of the hall with seats placed on all four sides (and on the permanent stage). This presentation was very successful and added greatly to the audience's enjoyment of the short plays.

The program included three Actor's Digests of which "Dear Brutus" starring Donna Lowe and Bill Linton received the largest applause; and a one-act comedy, "The Wedding," starring Joy Lombard and Gil Hoegson.

## Interview Schedule

APRIL 24, 25 and 26—GENERAL MOTORS CORP., Detroit, Michigan. Mr. E. Henderson of their Dayton office, interviewer.

BS degree men in Mechanical, Electrical, and Chemical Engineering. MS & EE— for training to do product development, product design, drafting, testing, process and methods work, power plant work, plant maintenance engineering or manufacturing supervision.

CNE—qualified for laboratory work, production electroplating, and production work on rubber products.

MS degree men in Mechanical, Electrical, Chemical and Industrial Engineering, qualified for training to do product research, automotive fuel research, or teaching.

To qualify for consideration in these interviews, a student should have at least a C plus cumulative scholastic average, and have the interests, personality, and attitude that will qualify him for industrial employment. Most of the openings will be in plants located in Michigan, Ohio, Indiana, and Illinois. There are some openings in the Divisions located in New York, New Jersey, and Connecticut.

April 27 & 28—MINNEAPOLIS HONEYWELL REGULATORY CO., Minneapolis. Minn. Mr. G. S. Younk, Pacific Regional Manager, Los Angeles; and Mr. Vance Jewson, Minneapolis, Representatives. PhD Chemists; MS & PhD degree men in Physics; MS & PhD degree men in Electrical and Mechanical Engineering; and MS degree men in Aeronautical Engineering and Mathematics. Positions are open in Minneapolis, Minn.

May 1 & 2—NORTH AMERICAN AVIATION, INC., Inglewood, Calif. Mr. William T. Nance, Representative. Tentative date but they expect to visit the Institute.

All interviews take place in the Placement Office unless otherwise designated in announcement. Contact the Placement secretary as soon as possible for definite appointments and application blanks—120 Throop Hall.

All application forms filled out for interview appointments should be completed and in the hands of the placement secretary two days before the date of each particular interview.

#### SUMMER EMPLOYMENT

All students who are interested in the possibilities of summer employment should contact the Placement Office immediately to fill in a summer job application card. Making this application will not assure students of securing summer employment but it may help. The summer job situation is extremely difficult. All students interested in summer employment should make every effort on their own of locating a job. The application in the Placement Office is merely one possibility.

#### JOB OPENINGS AVAILABLE TO JUNE GRADUATES

- Men with Engineering background to work in Sales plus tax and trust problems. Sales personality. (Educational program—Evening classes). BS not essential. Los Angeles.
- Service assistant agents (fire, casualty, marine, bonds). Seven months in N.Y. office and then back to Coast to be assigned to field office in one of 11 Western States. All selling through agents and brokers. BS or MS degree. Age limit—25 yrs. Starting salary—\$200.00 per month.
- Ph.D. Physicist with some experience or fundamental research in optics. Opening will be partly academic research and partly industrial research. Salary in area of \$500.00. Los Angeles.
- Applied Chemists with BS degree to do laboratory, service and control work with paints, or plastics, or chemical control. Salary—open. Los Angeles area.
- Mechanical Engineer with BS or MS (Continued on Page 4)

## Hams!

A meeting of the Radio Club will be held Monday, April 24th, at 11:00 a.m. in 401 Bridge. All members are requested to attend. New officers and policies will be discussed.

## A.C.S. Honors Dr. Kirkwood

Dr. John G. Kirkwood, Arthur Amos Noyes Professor of Chemistry at Caltech, was announced the recipient of the American Chemical Society Richards Medal for 1950, the third member of the Tech faculty to be so honored.

This medal, one of the highest awards in the field of chemistry, is presented every two years to a member of the profession for "conspicuous achievement in chemistry." The first of the nine recipients was Dr. A. A. Noyes, for whom the professorship which Dr. Kirkwood holds was established. Dr. Linus Pauling, chairman of the Institute's division of chemistry and chemical engineering, was awarded the medal in 1947.

#### Kirkwood's Work

Dr. Kirkwood is widely known for his work in the field of statistical mechanics and its application to chemistry problems. For many years he has been interested in the physical chemistry of large molecules, proteins and high polymers. He recently developed a new method of separating proteins by electrophoresis.

The medal will be presented to the Dr. Kirkwood on May 11 at Cambridge, Mass., at which time he will address members of the northeastern section of the American Chemical Society on the Physical Chemistry of Proteins.

## Conger Essays Due Tuesday

Manuscripts for the Conger Peace Prize Assembly being held Friday, May 5, must be submitted not later than next Tuesday, April 25, according to Lester McCrery, who is now accepting these entries in his office at 303 Dabney Hall.

Plans are under way to make the coming assembly an impressive event, with some off-campus celebrity invited to preside. First-place winner in the contest will receive \$50, and second-place winner will receive \$25. Any regularly enrolled undergraduate student who has not previously won a prize in the Conger contest is eligible.

Essays which are selected will be presented orally before the student assembly. The general topic may be either world peace or industrial peace, as the entrant prefers.

## Fellowship Club Discusses John 16

"How can I find peace amid the turmoil present in the world?" is the often-asked question which will be discussed next week by the Caltech Christian Fellowship.

John 16 will be discussed by the Fellowship on Tuesday and Thursday at 12:30 p.m. in 201 Dabney. Everyone who is interested is invited.

**SURVEY GIVES JOB OPENINGS**

(Continued from Page 1)

bachelors degrees are about the same as for last year, with chemical and petroleum companies offering the highest salaries. For graduates with masters' degrees, the average will be about \$320 a month, and for those with engineering doctorates \$445. In the engineering colleges, employing teachers and research workers however, \$390 will be the average starting salary for graduates with doctors' degrees.

**LOCAL**

Only 4 of 17 local companies interviewed by Tau Beta Pi had a definite program of recruiting employees from college graduates by means of interviews. One of these was a large southern California oil concern predominantly interested in ME's and Chem Engineers, one was a large research laboratory, and one was a large construction company.

The other companies either made no definite statement as to opportunities, or as in the case of the small companies, reported generally that only a few college graduates were hired each year.

**Summer Jobs**

Due to the levelling off of production after the war, many companies reported less opportunities for summer jobs than before, particularly for undergraduates. However two companies reported a regular summer job program for undergraduates:

1. **National Technical Laboratories**, 820 Mission St., South Pasadena, takes every summer two juniors; these summer jobs may lead to permanent positions.

2. **West Coast Electronics Co.**, 1601 S. Burlington Ave., L.A., hires men for summer jobs from the undergraduates; contact Mr. Grove, Chief Engineer, if interested.

Summer jobs for graduate students are more plentiful, particularly in research work. Below are listed two companies which have specific summer job programs for graduate students; some companies stated there were occasional summer jobs for graduate students or exceptional undergraduates.

1. **Oil Field Research Division, La Habra Laboratory of the California Research Corporation** hires a few graduate students for summer work.

2. **Aerojet Engineering Corporation** sometimes hires graduate students whose work is in line with that of Aerojet; graduate students often contact the Aerojet engineering department for a thesis subject.

**Extra-Curricular Activities**

The emphasis which companies place upon participation in extra-curricular activities seems to depend upon the type of work which the prospective employees would be doing.

For jobs which require meeting and talking to people, salesmanship, leadership and the ability to work efficiently and productively in groups, the experience gained from holding college offices, belonging to school clubs, and taking active part in other student body affairs would be of definite value.

For men whose work will be primarily of a research nature, however, where the responsibility for completing a given job rests entirely with the individ-

ual, taking part in non-academic activities seems not to have much influence in determining whether they will or will not be hired.

**Personality Requirements**

Nevertheless, all companies seem to agree that the men who will eventually work for them should possess certain desirable personality characteristics. The most important of these is amiability. Every employee, research man or salesman, should know how to get along with those about him, even if his job is of a nature which does not require working effectively with them. One company stated that they were looking for men whose personalities would fit that of the company. The extreme individualist or impractical idealist would here be out of place.

Personal neatness is an important factor; sloppiness in dress and habit is considered by some companies to imply sloppy thought and work habits, besides. Natural shyness or reserve is not necessarily a great fault in employees; however extreme forwardness is never desirable.

**Society Membership**

Several companies stated that membership in some engineering or honorary society was helpful to the job applicant. Such a membership indicated that the prospect was interested in his professional subject, other than as a school subject. Other companies, however, while not counting such membership against a job applicant, did not consider it of any significance.

**Experience**

The only general conclusion which may be drawn as to the value of experience in getting a job is that experience seldom, if ever, hurts. About fifty percent of the 17 companies interviewed listed previous experience as mandatory, and many others felt it desirable.

The idea was expressed that men entering production or maintenance work needed previous training, (even, if necessary, at the expense of academic work,) whereas those who intended to do research should concentrate on scholastic work.

This belief was not, however, universal. One company thought that men graduating as engineers from college should have at least some time in industry before doing graduate work.

**Small Companies**

Smaller companies tended to require more experience in a prospective employee than do large companies, but not always. The main reason given for this was that a small company can usually not afford an extensive training program for new men like a large company can.

One of the men interviewed said that he did not believe the

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**CAMPUS BREWINS**

**We cast but false pearls among real swine. —The Beak.**

It has occurred to the Beak that, to date, he is undefined, and that such a thought must be a horrible one to an inmate of this edifice of learning. It therefore behooves us to describe ourselves. The Beak presents at first glance a most singular and awe-inspiring appearance: his posture is best represented by the "integral stoop" and his gait has become famous as the Wennstrom shuffle.

A simple unpretentious man of a grave yet reptilian mien, his gaunt profile blends the best features of John Taine, Lou Tellegen, Caliban, and Pericles. A bloodshot and dull eye sparkles above a seamed cheek which has been tanned a rich oleomargarine at the Skip Inn and the P.A.C. His loosey flapping levis, hinged upon one hip-bone, are worn with all the easy authority of a man accustomed to shuffle into a pawnshop, lay down his slide-rule, and take his four bits

**THE SQUARES' CIRCLE**

**To the Editor:**

I would like to clear up any questions about last week's assembly running overtime.

First, I would like to thank the students for staying till the show was over. This avoided any outside embarrassments; in fact, the P.C.C. troupe remarked how responsive and enthusiastic the audience was.

This courtesy meant missing lunch for a great many.

Future dealings will be as follows:

1. It will be **DOUBLY** emphasized by me to the entertainers that the assembly must conclude by 11:55.

2. If, through any unforeseen circumstances, the show does run over, Miss Huck will be notified and will hold late meals until 12:20 (when the others are through eating).

3. Thus, in the future, everyone at an assembly can be assured of a meal.

Miss Huck was put in a predicament last time. Feeding the assembly group would have cost at least \$15 overtime in wages for the cooks. This is hard on the skimpy budget Sue has at her disposal.

Sue is graciously willing to cooperate on the 12:20 notification plan; and therefore I hope all is cleared up.

Respectfully,  
**Frank Ludwig,**  
Rally Commissioner.

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home with him. Nevertheless, under his apparently placid exterior, the Beak is at this very moment prey to a hundred conflicting sensations. Hypertension, nausea, the dull ache of being unable to express himself coupled with the anticipation of having to hand in this column within the hour—a host of emotions are now striving for mastery within his breast.

**Hearses Versus—**

The Beak is further unnerved by the epic of Soule, who, while clambering over the cliffs of Laguna in contemplation of seals (we quote) battered and bruised himself almost beyond recognition. On the other hand, glad tidings of Bowen have come to our attention—he received a decidedly negative grade on a recent exam at the local pill box.

And yet others are suffering from afflictions of the flesh: we note Gus Soux' bout with that common childhood complaint—tonsillitis, and the plight of his adjoining-bedmate, Al Marshall, laid low with the mysterious and ubiquitous mononucleosis. When shall we, alas, hear the knell of bells, and the hollow voices echoing "Bring out your dead?"

**—Nurses**

But to depart from these lugubrious vagaries and back to the contemplation of the more substantial joys of life. The weekend began early, with a host of exchanges, ad nauseam. The Lemmings, Darbs, and Bladders ran from house to house but found no solace anywhere.

Typical was the plight of Peter Knoepfler, who spent a hemmed-in evening enjoying the matronly attributes of several Florence Nightingales. No better off indeed was wanderer-afield Stowe, who, not inappropriately, found himself as chaperone at a Anokia high school dance. In contrast, the Cheshire Casanova Brow is burbling about his trio of feminine "conquests" over the weekend. Can it be that Ray has at last seen fit to hold hands with a woman??

**Schmipps Takes Risque**

Scripps is still agog over the dinner dance given (at \$2.75 a couple) by the sophomore class in the Olive Court Friday. Both our eyebrows are raised at what we consider an unnecessarily risque gesture by the administration—boys were allowed in the rooms from 5:00 until almost sundown.

We cannot view this opportunity for licentiousness with aught but alarm. Obviously it was impossible to chaperone all of the rooms simultaneously; indeed it is possible that some rooms escaped chaperonage altogether. We trust the Scripps faculty will realize the embarrassment this oversight must have caused the Tech men present, and will take steps to prevent the recurrence of this unseemly situation.

After a delightful ham dinner the couples enjoyed the prime entertainment of the evening, a four-piece no-beat orchestra. Featured was a petite vocalist, with a voice as small as her tiny

**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

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frame. The complete novelty of the band's no-beat style so stimulated many of the couples that about three-fourths of them had left by 10:30 to discuss this style and to compare it closely with the unimaginative ones of other dance orchestrations, before its vividness had left their minds.

**Some Like Men Cold . . .**

Observed having a hilarious time was Averre. The reader will please note that Averre doesn't like Pasadena women because they are too affectionate. It is rumored, furthermore, that he recently lowered his purity score; you guessed it, he kissed

(Continued on Page 4)



**WITH SMOKERS WHO KNOW... IT'S**

# Camels for Mildness

**Yes, Camels are SO MILD that in a coast-to-coast test of hundreds of men and women who smoked Camels—and only Camels—for 30 consecutive days, noted throat specialists, making weekly examinations, reported**

**NOT ONE SINGLE CASE OF THROAT IRRITATION due to smoking CAMELS!**

# Engineers Victorious On Track And Field

It is with deep regret that we must report that last Saturday saw Caltech's track team break a cherished tradition by winning not one but two track meets in a single day. This somewhat unusual debacle was accomplished in a three-way meet between Caltech, Redlands and Whittier, scored as two dual meets between Caltech and Redlands, and Caltech and Whittier. Since Whittier had previously defeated Redlands, this meet was not scored.

**No Character**  
Saddest part of the whole affair is that the track team now has a winning total in conference competition, having been defeated only by Oxy. Even worse is the overall record which shows Caltech to have lost 1 and won 6. Coach LaBrucherie is to receive a severe reprimand from higher authorities of the school for allowing the team to take a second place in the conference. Such regrettable lack of ability to build character, especially after an auspicious beginning in the fall, is only to be deplored in a man in a position of authority.

**Shot Record Broken**  
Leading offender of the Caltech team was Hal Tyson whose 48' 10" shot put broke the old school record, set by him last year, of 48' 7 3/4". Among others who face expulsion for their flagrant disregard of tradition are Dwight Schroeder who scored 14 points against Whittier and 16 points against Redlands in the 100, 220, low hurdles and broad jump, and Mason of Caltech who scored ten points against each in the distance events. His efforts were re-deemed in some measure, however, by Mason of Redlands who

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## At A Glance

**TRACK**—Caltech, 79 3/4; Redlands, 51 3/4. Caltech, 74; Whittier, 57. Caltech Frosh, 71 1/2; Whittier, 59 1/2. Caltech Frosh, 94; Redlands, 37.

**SWIMMING**—Caltech, 40; Pomona, 35. PCC, 38; Caltech, 37. Pomona Frosh, 43; Caltech, 21.

**BASEBALL**—Redlands, 3; Caltech, 0. Caltech, 5; Chapman, 3. Muir, 9; Caltech Frosh, 3. Pas. Nazarene, 7; Caltech Frosh, 5.

**GOLF**—Caltech, 9; Occidental, 9.

**TENNIS**—Occidental, 8; Caltech, 1. Pomona, 7; Caltech, 2. Occidental Frosh, 5; Caltech, 3. Pomona Frosh, 8; Caltech, 1.

## SPEAKIN' SPORTS

with Mike

With the announcement that football uniforms are currently being issued, we begin once again speculations as to Tech's 1950 season possibilities. Big news of the meeting of all football men last Monday was the announcement by Coach LaBrucherie that the team would fly, fly that is, to San Francisco to take on the S.F. State squad. Earlier in the fall preseason practice the Beaver gridmen will journey to the north to play Santa Barbara. We must agree that these two worthy opponents will provide ample practice to make the squad ready for the 5 conference and 2 non-conference games they take on after they return.

**Beaming Faces**  
Hanging around the meeting at 206 Dabney, Monday, I saw several faces that should make Bert happy. One in particular was that of Bill Wise, inactive on this year's squad, but a live wire on last year's Frosh squad at right end. Many notable Frosh of the current year's team were observed pushing pencils across football sign-up cards. Good sign.

**Patapoff Ponders**  
Those of us that saw Harry Patapoff in the role of spark plug of the Throop touch football squad await with equal eagerness as to the outcome of Harry's indecision. Rumors and Patapoff's elusive nature combine to still leave wonder as to whether he will come out for football next year. Let's hope he does.

**Oval Orchids**  
Nice goin' rabbits. Too bad Oxy has such an exceptional team this year—without it, Tech cindermen would have an excellent chance at the conference crown. Climaxing dual competi-

(Continued on Page 4)

## Tennis Tournaments

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Details of Tournaments Are Posted in Lower Throop Hall

# Beaver Sports

## Tossing For A Record



Hal Tyson strains as he tosses the shot to a new record of 48' 10", surpassing the old one by 2 1/4". Hal also took second in the discus in both dual meets last Saturday. He'll be trying for the conference record day after tomorrow at the All-Conference meet.

## Bulldogs Nip Netmen Lose Caltech Nine 2; Home Now

The Caltech Varsity nine lost a well-played ball game to Redlands last Saturday. The Redlands team collected four hits and two runs in the first inning and one run on two hits in the fourth. Otherwise the ball game was a pitching and fielding game. The Tech men never bunched enough hits to drive in a run.

**Double Plays**  
The Tech infield came through twice to pull the team out of a hole with two double plays. The first came with men on first and third and one out. Stallkamp

(Continued on Page 4)

## Netmen Lose 2; Home Now

Last week saw the Tech tennis team bow to two Conference opponents. On Wednesday, the scene of the crime was Occidental, where the Tigers managed to capture eight of the nine played. Jim LaFleur, playing sixth singles, was responsible for our only point. The individual results were as follows:

**Singles:**  
Simpson (O) def. Martin, 6-1, 6-1.  
Houghton (O) def. Blanchard, 6-3, 4-6, 7-5.  
Thompson (O) def. Poindexter, 6-1, 6-3.  
Muller (O) def. Baier, 7-5, 6-4.  
Rice (O) def. Berk Welch, 6-3, 3-6, 6-2.  
LaFleur (CT) def. Howland, 6-2, 5-7, 6-1.

**Doubles:**  
Simpson-Muller (O) def. Mar-

(Continued on Page 4)

# Pomona Tankers Fall; Try Again Tomorrow

## Final Relay Gives Meet to Engineers 40-35; Six First Places To Caltech

Hoping that they will be as successful next week, the Engineer tankmen celebrated a victory over Pomona last Friday in the losers' pool. Actually, there was little expectation of a win when the team was host to Oxy last Tuesday. However, we should triumph again tomorrow, when we again compete with Sagehens, but in our own pool.

## Frosh Sports Roundup

by Perry Vartanian

In a three team meet that was scored as two dual meets, the Caltech Frosh trackmen downed Whittier 71 1/2-59 1/2 and Redlands 94-37 last Saturday.

First place winners in the three-way scoring were Clair Veazey in the high hurdles (17.0), Al Johnson in the 880 (2:05.8), John Winslow in the high jump (tie at 5' 9 1/4"), Pat Fazio in the 100 (10.9), Jim Kliegel in the low hurdles (27.2), Veazey in the broad jump (19' 4"), and the relay team of Johnson, Walker, LaTourette, and Teague (3:39.6).

Second place winners in the three-way scoring included Dave Stevens in the mile and two-mile, Al Teague in the 440 and shot-put, Fazio in the 220, Kubik in the discus, and Veazey in the low hurdles.

This meet put our thinclads third in the conference with a two win, two loss record.

This Friday at 4:15 the Frosh mermen will meet Pomona at the PCC pool. Last Friday's meet against the Sagehens ended with our Frosh on the short side of a 43-21 count. Saturday the netmen meet Redlands at Redlands and the Baseball nine travels to Oxy for a 2:15 game. Friday afternoon at 3:30 the track squad will compete in the All-Conference Meet on the Caltech field.

## Darbs, Throopers Share IH Lead

Last week saw inter-house football off to a bone-crushing start. In the winners spots were Dabney and Throop, each with two victories. Ricketts split its two games, while Blacker and Fleming brought up the rear with two losses each.

Dabney's dessert plutocrats got their schedule off to a successful start by downing their arch enemies, Fleming, 6-0. The second game of the week saw a very powerful Throop club team clubbing Blacker to the tune of 19-6. By next defeating Ricketts 12-0, Dabney further inflated their supply of sundaes. Throop's second win of the week was against Fleming 6-2, and Rick-

(Continued from Page 5)

## Relay Decides

It took the last relay to finally decide the meet in our favor 40-35. In fact, the Beavers were trailing by 2 points as the relay started. Aside from the fact that it decided the outcome of the meet, this free-style relay was notable in that it was the fastest swam by Caltech this year, by some 10 seconds, the time being 4:00.1.

The first event, the medley relay, Caltech lost to a very superior Pomona relay team. Von Herzen and Houser came back in the 220 to garner 8 points for the Beavers. Libbey took the 50 yard sprint, as usual, but had to stretch to touch out Van Vorst of Pomona. This left Caltech in the lead 13-10, but the diving results reversed the relative positions, making the score 18-14. Although the Engineers won the rest of the events except the backstroke, they still trailed by 2 points going into the final relay as was explained before.

## Iron Man

Brad Houser has become the real iron man of the team, swimming 760 yards in the course of each meet. Against Pomona he took first in the 440, second in the 220, and swam a fast leg on the winning free-style relay, only a few minutes after finishing the 440.

As usual, those regular point-getters, Von Herzen and Libbey, took two events apiece. These two swimmers plus the relay team will probably do most of the scoring against Occidental. And don't forget the meet with the Sagehens tomorrow at the PCC pool.

**Results:**  
50 yd. free style—Libbey (CIT), Van Vorst (P), Disney (P), 25.9. 100 yd. free style—Libbey (CIT), Dabney (P), Van Vorst (P), 58.1. 150 yd. backstroke—Beckner (P), Hall (CIT), Well (CIT), 1:57.7. 200 yd. breaststroke—Von Herzen (CIT), Ford (P), Metzberg (P), 2:44.9. 440 yd. free style—Houser (CIT), Grisselle (P), Chandler (P), 6:07.4. 220 yd. free style—Von Herzen (CIT), Houser (CIT), Grisselle (P), 2:36.23. 300 yd. medley relay—(Pomona) Beckner, Dabney, Colburny, 3:35.4. 400 yd. freestyle—(CIT) Barmore, Houser, Von Herzen, Libbey, 4:00.1. Diving—Hospers (P), Yeager (P), Reinecke (CIT).

## Knickermen Split With Occidental

The mighty Caltech golf machine, firing on only three of its six cylinders, coughed its way to a 9-9 tie with the Oxy tigers. The Bengals were fielding their first team in two years; consequently the ever-generous Beavers went out of their way to boost the morale of said Tigers. Many of the matches were not decided until the last green, where one notable applied chemist was seen transforming his putter into a helix.

The box score read as follows: Smith (O) defeated Sims (T) 3-0; Jackson (O) defeated Revay (T) 2-1; Gallagher defeated Bennett (T) 3-0; Pardee (T) defeated Kernott (O) 3-0; Moffatt (T) defeated Fulton (O) 2-1; Hanna (T) defeated Patch (O) 3-0.

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CAMPUS BREWINS

(Continued from Page 2) a woman of the opposite sex. Jon Goerke was seen Sunday being picked up convertibly by one Peggy of Clark. Next thing we knew Jon was back in Dabney changing madly just in time to pick up a woman from Browning. We realize Jon that as social chairman of Dabney it is your duty to become acquainted with as many of those women as possible, and we admire your courage, but . . .

**Bored Board Stayed Staid** This year's Board Banquet seems to have been a singularly staid affair. No news as to how our money was spent has leaked out of the Beverly Hills Hotel, other than the revealing fact that the doorman refused to park Hanna's creeping coffin.

Saturday night saw Joe Fisher, in a reversal of his usual role, transformed into a snake's snake who had to be removed bodily from the middle of the Ricketts dance floor by five white-coated attendants. He is now reported resting comfortably, though in straightened circumstances.

Thus the Beak, by now quivering with exhaustion, calls it a day. False pearls indeed, but oh, how real swine!

JOB OPENINGS

(Continued from Page 2) present colleges were giving enough work in practical engineering to enable most graduates to step directly into jobs without further training. (He said that in other ways the present schools were adequate.) One company which used to train inexperienced men has found that it is not feasible under present conditions.

It may be generally stated that experience is valuable for routine production jobs, and academic work necessary for research.

Survey Data

Names of companies interviewed for the survey, and copies of the individual reports for each company upon which the California Tech article is based may be obtained from Bob Kurland, Dabney 8.

\*(the above data was not strictly a part of Tau Beta Pi's survey of local industries, but it is felt the information will be so timely and helpful to job-seekers that it should be included.)

DARBS, THROOPERS

(Continued from Page 3) etts started off the second week by downing Blacker 12-0. Both Dabney and Throop are in the win column, and will undoubtedly be gunning for the football crown, while Ricketts is a possible dark horse.

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ENGINEERS VICTORIOUS

(Continued from Page 3) scored firsts in the 100 and 220. Mason (of Redlands) ran a 9.8 hundred, best in the conference this year. Other offenders, who will probably be punished by being forced to take part in the All-Conference meet next Saturday, are Johnny Lewis and Martin Walt, who took firsts in the discus and pole vault, and Bob Waid who picked up a total of ten points in the two meets.

Next Saturday will see the Caltech team attempt to return to its old form in the All-Conference meet. The meet will probably see several records broken including a possibility in the shot by Hal Tyson, and in the discus by both Tyson and Lewis. Naturally Coach LaBrucherie will try to prevent any such catastrophic event, but his control over these men is limited, and anything may happen. Field events are slated to begin at 2:30 p.m. Student body cards are good, and it will be well worth the effort of attending to see some good performances.

100—Mason (R), Hays (W), Schroeder (CT), Ladwig (R), 9.85. 220—Mason (R), Schroeder (CT), Ladwig (R), Hays (W), 21.95. 440—Beckett (W), Newton (W), Tony (R), Carson (CT), 51.65. 880—Smith (W), Parnes (CT), Everson (R), Tanner (R), 2m. 45. Mile—Mason (CT), Creasey (R), Brody (CT), Hedges (W), 4m. 42.15. Two mile—Mason (CT), Creasey (R), Cobb (CT), Hedges (W), 10m. 365. 120 high—Baudrand (W), Waid (CT), Stanaway (CT), Irwin (CT), 15.35. 220 low—Baudrand (W), Schroeder (CT), Sweeney (R), Waid (CT), 24.25. 4-man mile relay—Whittier, Caltech, Redlands, 3m. 29.25. High jump—Tie between Beckman (R), and Thorsen (R), tie among Soule (CT), Waid (CT), Waid (CT) and Conly (R), 6ft. Pole vault—Waid (CT), tie between Crandel (W) and Conly (R), tie between Tautz (CT), Riggs (CT), Beckman (R), Discus—Lewis (CT), Beckman (R), Tyson (CT), Miller (CT), 133ft. 1/2in. Broad jump—Tucker (W), Schroeder (CT), Waid (CT), Mason (R), 22ft. 4 1/2in. Javelin—Ward (R), Reid (W), Tucker (W), Noble (CT), 186ft. 3 1/2in. Shot-put—Tyson (CT), Lewis (CT), Peary (W), Alvarez (R), 48ft. 10in. (New school record). Final score Caltech, 66 1/4; Whittier, 48 1/2; Redlands, 48 1/4. Dual scores—Caltech, 74; Whittier, 57; Caltech, 79 3/4; Redlands, 51 1/4.

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BULLDOGS NIP

(Continued from Page 3) made a spectacular catch of a line drive and caught the runner off first base. Number two also came with men on first and third with one out. A ground ball to Stallkamp was fielded, Stallkamp to Baker to Neverman, thus retiring the side. The Redlands infield also worked a double play.

The best hit of the day was made by Baker of Caltech. With one out in the third inning Baker hit a triple between the center and right fielders. The other hits were made by Pfeiffer, Stallkamp, Wise and Kam.

**Oxy Here** Next Saturday the Beavers take on Oxy here. Oxy is supposed to be the best in the league but with a little teamwork and hits in the right spots, Caltech could show Oxy who is boss.

The box score: Caltech AB R H PO A E Karasawa, 3b.... 3 0 0 0 1 0 J. Smith, lf..... 4 0 0 1 0 0 Pfeiffer, c ..... 4 0 1 3 0 1 Stallkamp, ss.... 4 0 1 2 2 0 Koons, rf ..... 2 0 0 1 0 0 Neverman, 1b. 3 0 0 12 0 1 Wise, cf ..... 3 0 1 1 0 0 Baker, 2b ..... 3 0 1 2 5 0 Grey, p ..... 3 0 0 0 3 0 Kam, rf ..... 1 0 1 2 0 0 \*Munro ..... 1 0 0 0 0 0

Totals .....31 0 5 24 11 2 \*—Batted for Neverman in 9th.

SCORE BY INNINGS Caltech runs .... 000 000 000—0 Hits ..... 101 000 201—5 Redlands runs.. 200 100 00x—3 Hits ..... 400 211 00x—8

SPEAKIN' SPORTS

(Continued from Page 3) nexed second only to our western neighbors. A big ole cluster of dandelions to Coach LaBrucherie for his achievements in his first year as Tech's track commander.

Hal Tyson's discus heave of 126 feet is not to be sneezed at, but when we saw his 139 foot throw just after official measur-

NETMEN LOSE

(Continued from Page 3) tin-Blanchard, 6-2, 6-3. Thompson-Rice (O) def. Poindexter-Ed Welch, 6-3, 6-4. Dunlap-Howland (O) def. Hyman-Butler, 1-6, 6-2, 6-1.

**At Pomona** On Saturday the racquetees journey to Pomona only to be again defeated, this time by the score of seven to two. Tech's two victories are accredited to Blanchard and Baier, playing second and fourth singles respectively. Captain Jack Poindexter's match with Pomona's Linthicum was the match of the day, Poindexter being edged out in the third set by the close score of twelve to ten.

The individual match results were as follows:

**Singles:** Baker (P) def. Martin, 6-4, 6-4. Blanchard (CT) def. Biddle, 6-4, 6-3. Linthicum (P) def. Poindexter, 7-5, 3-6, 12-10. Baier (CT) def. Kenyon, 6-3, 6-1. Nava (P) def. B. Welch, 6-3, 6-3. Clarkson (P) def. LaFleur, 6-2, 6-1. **Doubles:** Baker-Kenyon (P) def. Martin-Blanchard, 8-6, 6-1. Biddle-Hatch (P) def. E. Welch-B. Welch, 6-3, 6-1. Nava-Maree (P) def. Hyman-Butler, 6-1, 4-6, 6-0.

**Home Now** Those two matches concluded the team's season away from home. Coach Lamb and the team hope that returning to Tournament Park for the rest of the season will change the team's luck. Wednesday, the team has a practice match with Muir JC here in preparation for a Conference match with Redlands here this Saturday.

ing terminated, we can see reason for Mr. Form being perturbed. Hal was second to Lewis' 133 foot mark, however, so we're all happy since first and second place stayed in the family.

INTERVIEW SCHEDULE

(Continued from Page 1) degree to design hydraulic control devices, valves, etc. Some experience with Hydraulic control devices. Salary—open. Los Angeles. 6—Chemical or Mechanical Engineering background though degree not essential. Sales opening, not too highly technical. Contacts with manufacturers. Products have to do with the heat treatment of steel. Company sells 800/1000 items and man must learn products and application of products. \$250/300 to start and later on commission basis. Los Angeles. 7—Chemist or Chemical Engineer with BS degree. Company polishes and plates metal parts for manufacturers of automotive accessories, refrigeration equipment, radios, television and electronic devices, and various novelty items. The opening is for a chemist with either a limited industrial background or with an interest in securing employment in industry. Salary open. 8—Chemists, Physicists, and Chemical Engineers with a degree plus some work experience for positions of administrative nature. Will not involve laboratory work. Government work in Chicago. 9—Physicist or Mechanical Engineers with BS or MS degrees. Openings as thermodynamicists. Salary—open. San Diego. 10—Chemical and Mechanical Engineering with MS or PhD degrees. Prefer men with research experience pertaining to thermodynamics and heat transfer problems. Salary—open. Los Angeles area. 11—Geophysicist with PhD degree. Work in the field with field party for most of time during the first year which is training period, after which man will be assigned to a more permanent position. Salary in the area of \$475. 12—Civil Engineer with MS degree as Instructor in Midwest for academic year 1950-51. Should have background study in Soil mechanics or highway design and be able to teach Water Supply, Sewerage, Plain Concrete, Soil Mechanics, Hydraulics, Highway Design. Salary not over \$3200. 13—Electrical Engineers and Physicists with BS or MS degrees. Special test work in Point Mugu. Work concerned with instrumentation, engineering field test work with both electrical and electronic equipment. Want men who are in upper third of class. 1 year or so industrial experience desirable or experience in armed service in either Electrical engineering or electronics. Salary for BS in area \$250.00. 14—Civil Engineer with BS degree. To work with contractor who is building houses. Man to work with him who can deal with clients and workmen. Industrious and pretty efficient with details. Salary—open. Pasadena. 15—Physicist with PhD degree as Instructor in Physics. San Francisco, Calif.

To teach graduate work leading to MS in Physics. Man's field should be in theoretical physics with interest in teaching. Hours of teaching rarely more than nine per week. Salary on 10-month basis, \$3800-\$4000. 16—Aeronautical Engineer and Meteorologist with MS degree. Position teaching courses in Air Frames and Power Plants, Meteorology and Navigation, The Economics of Air Transportation and Air Law and Regulations. Two years of successful teaching experience and should be a pilot of some ability. Alaska. Salary—open. 17—Mechanical Engineer with or without BS degree to work in Inspection Department. Good common sense most necessary ingredient plus technical background. Probably lead to a top position. Los Angeles. 18—Mathematician or Mechanical Engineer with PhD degree as Assistant Professor, Associate Professor or Professor. Sept. 1, 1950. Teaching in the Department of Mathematics. Should have teaching experience in an Engineering College or research experience in Physics, Mathematics or Mechanics. Excellent if have experience in Elasticity, Hydrodynamics, Dynamics, Electricity and Magnetism, Heat Transfer and Thermodynamics. Salary \$4,000 to \$4,800. South Dakota. 19—Mechanical Engineer with MS or PhD degree. Instructor, Assistant Professor, or Associate Professor. To teach usual courses in the junior and senior year of the Mechanical Engineering curriculum. \$3,000/\$4,500. South Dakota. 20—Chemical Engineer with PhD degree. Opening in reservoir fluids group. Particularly interested in people whose research work has been in phase equilibrium studies and who want to continue in that work in the field of production research. Salary—open. Oklahoma. 21—Chemist and Math. combination or Physics and Math. with PhD degree. Position in core studies group—production research. Salary—open. Oklahoma. 22—Mechanical Engineers with BS degree. Refrigeration and air-conditioning industry. Training program in Sales Engineering. Salary to start, \$240.00. Pennsylvania. 23—Mathematician with PhD degree as Assistant Prof. or Associate Prof. Teaching in Department of Mathematics. Salary \$3,600/5,000. New Mexico. 24—Mathematicians with PhD degree. Applied Math. Non-linear mechanics, theory of games, statistics, transformer methods, resistor tensor analysis, analog computing equipment, etc. Los Angeles area. 25—Chemist or Chemical Engineer with BS degree who has taken clay meteorology or ceramics. Will be dealing with oilwell drilling muds or fluids. Will have to know about colloidal chemistry. Company is to a degree a sales organization, therefore man must have personality. Salary—\$250.00. Los Angeles. 26—Electrical Engineers with a BS degree. Electrical drafting—primarily installation, wiring, instrumentation, etc. Salary—open. Los Angeles area.

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