

Volume XLIX

California Institute of Technology
Thursday, February 26, 1948

No. 18

ASCIT Elections Today Climax Campaign Week

Tau Beta Instructor Poll To Be Conducted Next Week

Machine Tabulation to Simplify Huge Task, Members to Work on Job of Averaging

Schedule for March 1-6, the Tau Beta Pi instructor rating programs will soon give students a chance to list the foibles and fine points of their instructors and lectures.

Tech Debate Teams

Place In Oratory

Contest At UCLA

Caltech again proved its forensic prowess last Saturday at UCLA when Irving Sulmeyer won fourth place in oration and four of Tech's five entering men placed in the semi-finals. Four of the Tech teams, also placed in the semifinals of Discussion, a panel type contest, but were unable to continue on to win. Sulmeyer's oration, "The Messenger," told of Wendell Willkie's words to a troubled world. Saturday's meet at UCLA completed the joint Caltech-UCLA tournament, the first part of which was held here on February 7. Next on the calendar for the school squad is a three-day tournament at College of the Pacific in Stockton, Calif., on March 25, 26, and 27—during spring vacation.

Golden oratory takes a more local turn tonight at 7:30 in Fleming lounge when Blacker challenges Fleming for the Abe Lincoln forensic trophy. Blacker's John Heath will give his oration, "Song of the South," and Fleming's Bill Wood will defend with his "Promise of Tomorrow."

In the past there have been no rules governing the contests over this trophy, and consequently a dispute has arisen over this event. Fleming feels that Blacker should not be permitted to enter Heath inasmuch as he has entered with this same oration into intercollegiate competition. Blacker, on the other hand, feels that any house man should be allowed to enter. Final settlement of the dispute was reached when Fleming accepted the challenge with the recommendation that the interhouse committee draw up a set of rules for future events.

Kyropolous Host At Next Fireside

Future events of the "Y" Sunday Firesides will include Dr. Peter Kyropolous, and some members of the Board of Trustees, Tom Tracy said today.

Last Sunday night Dean Lacey and his wife had a very enjoyable session. Students attending were plied with cherry pie and cocoa, which kept the par of the fireside on a high level.

Campus Calendar

THURSDAY, FEBRUARY 26—
Upper Class Luncheon Club at the Training Table, 12:00.
Throop Club Meeting, 12:30 p.m.
Dancing Class, Culbertson Hall, 7:30 p.m.
Glee Club Rehearsal in Throop Club, 8:30 p.m.

FRIDAY, FEBRUARY 27—
Student Assembly, 11:00 a.m.
Basketball Game, Caltech vs. Pomona, here.
Open House after the game, Blacker.

SATURDAY, FEBRUARY 28—
Basketball Game, Caltech vs. Loyola, here.
Open House after the game, Ricketts, Dabney-Blacker, Barn Dance.

SUNDAY, FEBRUARY 29—
Movie in Dabney Lounge, 7:30 p.m.

MONDAY, MARCH 1—
Student Assembly, 11:00 a.m.

TUESDAY, MARCH 2—
Newman Club, Dabney Lounge, 4:15 p.m.
Band Practice, Culbertson Hall, 7:30 p.m.
Christian Science Organization, 208 Dabney Hall, 7:30.

WEDNESDAY, MARCH 3—
Frosh Luncheon Club at the Training Table, 12:00.
Math Club, 106, Astro, 4:30 p.m.
Y Cabinet Meeting, Y Lounge, 7:15 p.m.
Fencing Class, Dabney House, 7:30 p.m.
Orchestra Practice, Culbertson, 7:30 p.m.

THURSDAY, MARCH 4—
Upper Class Luncheon Club at the Training Table, 12:00.
Throop Club Meeting, 12:20 p.m.
Dancing Class, Culbertson Hall, 7:30 p.m.
Glee Club Rehearsal in Throop Club, 8:30 p.m.

New Amendments....

For ease in casting your ballot on the proposed changes to the ASCIT By-Laws as they appear on the ballot today we have grouped the changes in the following manner. Because so many of the changes are interdependent it was felt this was necessary.

ART. IV, Sec. 3, Sec. 5 and ART. XII, Sec. 6.
ART. VII, Sec. 3.

ART. XI, Sec. 7.
ART. XII, All Sections.
ART. XIII, Sec. 2.
ART. XIV, Sec. 1 and Sec. 2.
ART. XV, Parts A & B, Sec. 3.
ART. XV, Part C, Sec. 4.
ART. XV, Part D, Sec. 1.

There will be copies of the California Tech containing the full content of the changes as printed last week at all of the polling places.

Industrial Design Talk To Highlight Next CES Assembly

At the CES assembly next Monday Mr. Henry Dreyfuss, visiting lecturer in industrial design, will address the group on "The Relationship of Industrial Design to Engineering."

Material for the talk will be drawn from the speaker's experience which includes design of the interiors of transport and personal aircraft, ocean liners, dining cars for the Santa Fe Railroad, and even special freight cars for the New York Central System.

Award Recipient

In addition, Mr. Dreyfuss is President of the Society of Industrial Designers and was the recipient of the Lors and Taylor Design Award in 1939 and the American Designer's Institute Award for outstanding contribution to American design in 1943. During the war, he did consulting work for Bell Laboratories in connection with the design of radar installations.

The following Monday, March 8, the ASME will hold trials to determine who will represent Tech at the annual ASME Student Convention which will be held here in May. Papers which can be delivered orally in fifteen minutes, on engineering topics, will compete for cash prizes. Further details can be obtained from Bob Poincexter, Dabney 51, or Prof. Hollander in the ME building.

SAE Field Trips

The final trip of the term is scheduled for the GM assembly plant in South Gate tomorrow afternoon, and all Techmen are invited. There is a sign-up list in front of the ME building for those interested.

The SAE has already held its field trips to Pacific Airmotors Corp. and Firestone Rubber. Those present found both trips extremely interesting as well as informative.

"Y" Drive Completed With Goal Topped

As of last Monday, the Caltech YMCA Finance Drive, held between February 16 and 20, over-subscribed its goal of \$1750 by \$100. When all of the receipts are in, the drive is expected to reach the \$2000 mark.

A large factor contributing to the Drive's success was the large sum donated by the off-campus students. Under the direction of Dick Rhemo, Representatives in each class collected a total of \$400.

Dabney Leads

Dabney led the Student House contributions with a total of \$203 which is an average of over \$2 per man.

Wes Hershey and Dave MacKenzie, Y treasurer, wish to thank all the men on the soliciting and publicity committees for doing such a thorough job. It is to them that the drive owes its success.

The opinion generally held, from the impressive state dignitaries down to the miserly beggar, was that the tremendous turnout in such a conglomeration of garbs marked this as one of the finer fiestas of the year.

Two Compete for President, All Major Offices Contested

Important Amendment Questions Also Slated In Annual Ballotting

The ASCIT elections will take place at the following polls today. There will be polls open in each house and Throop Club from 12:30 to 1:00, in lower Throop from 12:30 to 4:30, in the court between Ricketts and Fleming from 1:00 to 4:30. In order to vote you must present your Student Body card. The ASCIT officers that will be chosen are

most important to Student Body affairs. The men elected to the first nine offices named are the members of the Board of Directors.

Candidates

The following are the offices and candidates: ASCIT President, Stan Barnes and Chuck Forrester; Vice President, Dennis Long and Bill Karzas; Secretary, Ralph Lovberg, Dick King and Stan Boicourt; Treasurer, Bob Walquist and Hugh Carter; Athletic Manager, John Kariotis, Bill Palmer, and Mike Sellen; Publicity Manager, Jack Ottestad and Bill Gothard; First Representative-at-large, Bruce Robinson and Carl Price; Second Representative-at-

Tech Editor Resigns Over Slip

The Editors and staff of the California Tech wish to express their deep regret over the inclusion, in last week's issue, of material in extremely poor taste in one of the news articles.

Due to a set of irregular and unfortunate circumstances, the article was not reviewed by the copy staff or editors, and consequently not deleted.

As soon as the Editors became cognizant of the material in question, the entire issue was called in for revision. To those who picked up the early, unaltered edition, and were offended, the Tech can only offer its sincere apologies. The writer responsible has been suspended.

Editor's Statement
Len Herzog, Editor of the Tech, released the following

(Continued on Page 4)

Steel Course Offered Seniors

The Placement Office revealed today that the Bethlehem Pacific Coast Steel Corporation has announced its Loop Course training program. This is offered to a small, selected group of graduates of the Pacific Coast colleges who received their degrees in 1948. A booklet on this Loop Course is available in the Placement Office.

Requirements Announced

Specifications call for specific interest in the steel industry, for steel construction, contracting, steel plant operations, and selling. Also important is an outstanding personality, ability to work successfully with others, and a good scholastic attainment. Successful candidates will be sent to the offices and plants of the Bethlehem Steel Company in the East but will, upon completion of the training, be assigned to permanent positions with Bethlehem Pacific Coast Steel Corporation on the Pacific Coast.

Any Civil, Electrical, or Mechanical Engineers interested should obtain further information from the Placement Office, 120 Throop Hall.

Interview Schedule

FEbruary 26 AND 27—
GENERAL PETROLEUM CO., Los Angeles, Calif. ME, EE, CE and PHYSICISTS. Petroleum production work—two-year trainee program. Practical side of engineering, not research.

A few PhD's in PHYSICS and PHYSICAL CHEMISTRY.

MARCH 1—
PRATT AND WHITNEY AIRCRAFT, a division of United Aircraft Corporation. Mr. F. W. Powers. BS or MS candidates in Aeronautical or Mechanical Engineering interested in engineering or research in aircraft industry. Location of work—East Hartford, Conn.

MARCH 1 TO 5—
STANDARD OIL COMPANY OF CALIFORNIA—Mr. Fred K. Ausfahl and Mr. F. Wyatt. RE-INTERVIEW OF ME NOTIFIED.

MARCH 2 AND 3—
E. I. DUPONT DE NEMOURS CO., Wilmington, Delaware. J. W. Reynard. PhD candidates in fields of CHEMISTRY, CHEMICAL ENGINEERING, PHYSICS, MECHANICAL ENGINEERING, PLANT PHYSIOLOGY available through June, 1949.

MS candidates graduating in June, 1948, in fields of CHEMISTRY and CHEMICAL ENGINEERING.

All men must be interested in employment in the East in Research and Development.

MARCH 3 AND 4—
INTERNATIONAL TELEPHONE AND TELEGRAPH CORP., New York N.Y., Mr. J. A. Nelson.

ELECTRICAL ENGINEERS for the design and development of telephone and radio equipment and a few with special aptitude for basic research and development. Should be willing to go most any place in the world. Single men preferred unless married men willing to move around.

Band Concert at Friday Assembly

The Caltech Band under the direction of Audre Stong will be the main attraction at the assembly in Culbertson at 11:00 tomorrow. Audre Stong is Dean of Men, Band Director and general dynamo at PCC, besides which he takes time to manage the Caltech Band. The band will play everything from semi-classical to hot jazz.

Singer Featured

Karen Larsen, a member of the PCC Highlighters, who you will remember from last year's Pajamerino, will sing several numbers. There will be a clarinet solo by Mike Fossier and a special arrangement of Liza by Fossier, Dixon, Zwick and Howard. There will be a trumpet solo by Don Lovelace and a trio with Lovelace, Gavril and Sampson. This promises to be an hour of fine entertainment, which your band has done a lot of work on. Altogether it adds up to a fine program you can't afford to miss.

Tech Bridge Teams Hold Practice Meet

Coach Carl Savat ran the Caltech Bridge Team through its paces in the preliminary elimination heat of a national inter-collegiate championship bridge tournament last Thursday. Caltech's four teams played against each other, using prearranged hands prescribed by the contest authorities (the usual manner in tournament bridge), the team standings being determined by the measure of the success of their offense or defense using the standard hands.

Finals in Chicago

The grand finals in this tournament will be held in Chicago in the spring. Caltech's team consisted of Brattmoer and Heggland, Cornelius and Evans, Fox and Tracy, and Holser and Hummel.

Interhouse Standings

On the inter-house bridge tournament scene, Throop and Ricketts are tied up for the lead. Participation in this tournament has been rather good, with an average of three teams from each house entering the two sessions that have been held so far.

Monterey Park Host To Dabney-Blacker Athletic Contests

As usual, the Crew-race for the Interhouse Trophy will be the featured event of the annual Dabney-Blacker Championship Barn Dance, to be held this Saturday at the Richard L. Luy Post of the American Legion, 330 S. Ramona, Monterey Park. Early in the week, teams from both houses started serious training to prepare for the event, with Blacker determined to wrest the trophy from Dabney, and Dabney just as determined to hang on to it.

Many Events Scheduled

But regardless of who wins, the prospects are that all who are present for the dance will have a good time. This year the two houses will have an extra hour to enjoy the sporting events, beauty contests, folk dancing, entertainment, and refreshments, as the dance will be held from 8:30 to 1:00.

Dabney-Oxy Picnic Success

The Dabney-Oxy picnic was held last Sunday despite threats that the weather might not be all that was predicted for it.

From 1 p.m. to 4 the men from Dabney and about 40 girls from various houses at Occidental participated in various sorts of games contests, etc. As is its custom, Dabney emerged from the milk-drinking contest with the trophy.



The candidates who are up for election today are shown here. They are, reading from left to right, Front row: Stan Barnes, Bob Haufe, Dick King, Ralph Lovberg, Bill Palmer, Bill Karzas, Stan Boicourt.

Campaign Statements

FOR PRESIDENT:

In selecting a man for an ASCIT office, especially for the most important office, that of President, there are two important items to consider. These are (1) Experience and (2) Grades. My candidate, **Stan Barnes**, has both in goodly quantities. He has served on the Board of Directors of the ASCIT for two years—as Second Rep. in 1943-44 and as Athletic Manager this past year. During both his terms of office he has done an outstanding job and it is my belief he will do an equally good job as President. Beside this he is a two-year track letterman and was his Frosh Class Chairman. Stan is not a Tau Beta—but he does have good grades and as a result he will be able to spend sufficient time to be a good President. With all these qualifications, it is obvious that Barnes is the man for our next ASCIT President.

Bill Muehlberger.

We are all continually looking ahead. I would like very much to be in a position where I can help materially in making this next year as successful as possible. I sincerely think that I can and will do an excellent job as President of the ASCIT because of my interest in the work, previous experience in similar positions and my will to find out what is needed and do it as soon and as well as possible. **Stan Barnes.**

Caltech Students Welcome At
Neighborhood Church
A Church of Liberal Religion
225 West California Street
SUNDAY WORSHIP 11 A.M.
Student Club Party
Sunday, Feb. 29, 7:30 p.m.



SPORT COATS

All Wool—New Pattern and Colors in Spring Shades

\$32.00 and Up

Open Fri. &
Sat. Nites

881 E. Colorado
Fowler & Schrader

WE ARE READY FOR

SPRING SPORTS

BASEBALL - TRACK - TENNIS

CHAMBERLAIN ATHLETIC CO.

27 SOUTH EL MOLINO

SY. 6-4161

Jonker's Florists

You can walk to this new shop which is only three doors South of Lake & California St. to order

Corsages OR TO TELEGRAPH Flower
OPEN EVENINGS AND SUNDAYS
TELEPHONE YOUR ORDERS SY. 3-7167

The Honor System is a great and wonderful tradition and, like freedom, its price is eternal vigilance. Its principles and workings should be made clear to every member of the student body. I would sincerely appreciate an opportunity to serve you as your Vice-President.

Dennis Long.

The position of ASCIT Vice-President requires a man with an active interest in student body affairs, experience in the Board of Control and Board of Directors, and above all, mature judgement with which to direct the workings of the Honor System. With these requirements in mind, I feel qualified to serve you as your Vice-President.

Bill Karzas.

FOR SECRETARY:

For any student body office you want a man who has shown his interest in a variety of student body activities and who will, therefore, be a representative of all the students and not a small group. **Stan Boicourt's** record shows his qualifications for your ASCIT secretary. He has had experience on the board of control, writing for the paper, on the school debate squad, working with the Y, and he's active in sports, holding a varsity letter in Swimming. These activities make him the logical choice for your student body secretary.

Bob Dalton.

The office of ASCIT secretary is one of great importance. I feel that I am qualified for the job because of all the activities in which I have participated. Being managing editor of both the California Tech and the Big "T" has brought me into contact with almost every phase of student body government. And, if elected, I will do my best to fulfill the duties of the office.

Dick King.

(Continued on Page 4)

Frosh Sports Roundup

—By Earl Hefner

Day after tomorrow the annual Interclass track meet comes off, and, unless we miss our guess, the Frosh are going to make a pretty fine showing in many of the events. No holds will be barred this time, since everyone is eligible, including track letter-winners.

With the Interhouse track meet mere history now, in looking over the results, the few Freshmen that did participate in the meeting did a nice job. They accounted for 32 points, of which there were two firsts, two seconds and three third places.

Noel Reed, athletic manager for the Freshmen, has spent this week rounding up a suitable team to compete against the Upperclassmen. He has some fine material in the 880 and shot and discus, but definitely needs the participation of more Frosh. As evidenced last Saturday morning, it is the third, fourth and fifth place spots as well as the winners that determine the meet, and Noel expresses the hope that all Frosh capable of lifting the shot or lasting the mile run will show up Saturday to clean up some of the "small" points.

We've seldom seen a colder team than that aggregation which lost to the Whittier Frosh last Friday. The Poets, winning their final game of the conference, combined the Beaver's inability to hit the bucket with a fast break to win easily by 17 points.

A win tomorrow night for the Frosh will put them in third place, a bare game behind their rivals of tomorrow, Pomona. The Oxy Freshmen have the loop sewed up, with a single game with Redlands' Bullpups left on their schedule.



Research simplifies print making with development of "Varigam" Paper

Chemists and physicists make important contributions

Photographic film that has been overexposed or overdeveloped usually means a "hard" or "contrasty" negative—too much silver is deposited on the highlights in comparison with that in the shadows. The opposite effect, a "soft" or "thin" negative, results from underexposure or underdevelopment. At one time photographers had to stock four or five grades of enlarging paper to correct for these conditions and get the right degree of contrast.

To eliminate this expensive, unwieldy situation, scientists developed "Varigam" variable contrast photographic paper. With "Varigam," the whole procedure of getting different degrees of contrast is reversed. Instead of using several grades of paper, the photographer uses only one. He gets variation in contrast by use of filters that control the wave lengths of light reaching the paper, thereby getting finer degrees of contrast than are otherwise possible.

The action of "Varigam" depends on the ability of certain dyes to extend the sensitivity of silver halide emulsions beyond the blue and blue-green regions. This effect was well known to scientists. But "Varigam" has an added feature—it gives high contrast in the blue por-

tion of the spectrum and is also sensitive to light in the green region, with low contrast.

"Varigam" the work of many men

The first job was one for the physical chemists. Silver halide emulsions, normally sensitive to blue light, had to be made to give maximum contrast when exposed to light in this region.

It was known that certain dyes would extend the sensitivity of the emulsion over as far as the infra-red. But they were not practical for photographic paper, being affected by the red safety light used in the darkroom. Research by chemists showed that certain dyes such as 1:1-diethylthiopseudocyanine iodide extended the light sensitivity only to the green region. And, most important, they produced low contrast when used in lower-than-normal concentrations. When such a dye was combined with high-contrast silver halide emulsion, the result was an emulsion that gave high-contrast prints when exposed to blue light, and low-contrast prints when exposed to green light.

Physicists Develop Filters

Physicists made this contrast control a reality by preparing sharp-cutting filters that allow the user to control his printing light selectively. These filters,

which are attached to the lens of the enlarger, range from blue for high contrast to yellow, which cuts out the blue almost entirely and gives low contrast. In between are eight grades of filters with intermediate degrees of blue and yellow light transmission. All of the filters are made in such a way that neither light nor printing time needs to be varied as filters are changed, except the last two on the blue end. These require approximately twice the time of the others.

In "Varigam," made by Du Pont, chemical science has given the photographer new economy and convenience in printing, and a degree of contrast control more precise than is possible with any combination of commercial papers.

Questions College Men ask about working with Du Pont

What types of training are needed?

The majority of openings for college graduates at Du Pont are in technical work and are usually in chemical, physical, or biological research; chemical, mechanical, civil, electrical, or industrial engineering. Openings are available from time to time in other fields, including architecture, ceramics, metallurgy, mining, petroleum and textile engineering, geology, mathematics, accounting, law, economics, and journalism. Write for booklet, "The Du Pont Company and the College Graduate," 2521-C Nemours Building, Wilmington 98, Delaware.



BETTER THINGS FOR BETTER LIVING
...THROUGH CHEMISTRY

More facts about Du Pont—Listen to "Caravade of America," Mondays, 8:30 P.M., PST on NBC



Normal print (center) can be obtained from either a "soft" negative (left) or a "hard" negative (right), using "Varigam" variable contrast paper.

FLEMING FIRST IN IH MEET

Whittier Dumps Tech to Clinch Tie For Crown

The Whittier Poets cinched at least a tie for their second straight Southern California Conference championship by humbling Caltech's meager Beavers, 52 to 41, on the Whittier court Friday night. The Poets finished their league season with a record of 6 wins against 2 losses, while Occidental, boasting a 5-2 mark, finishes up against Redlands tomorrow night in quest of a tie for the crown.

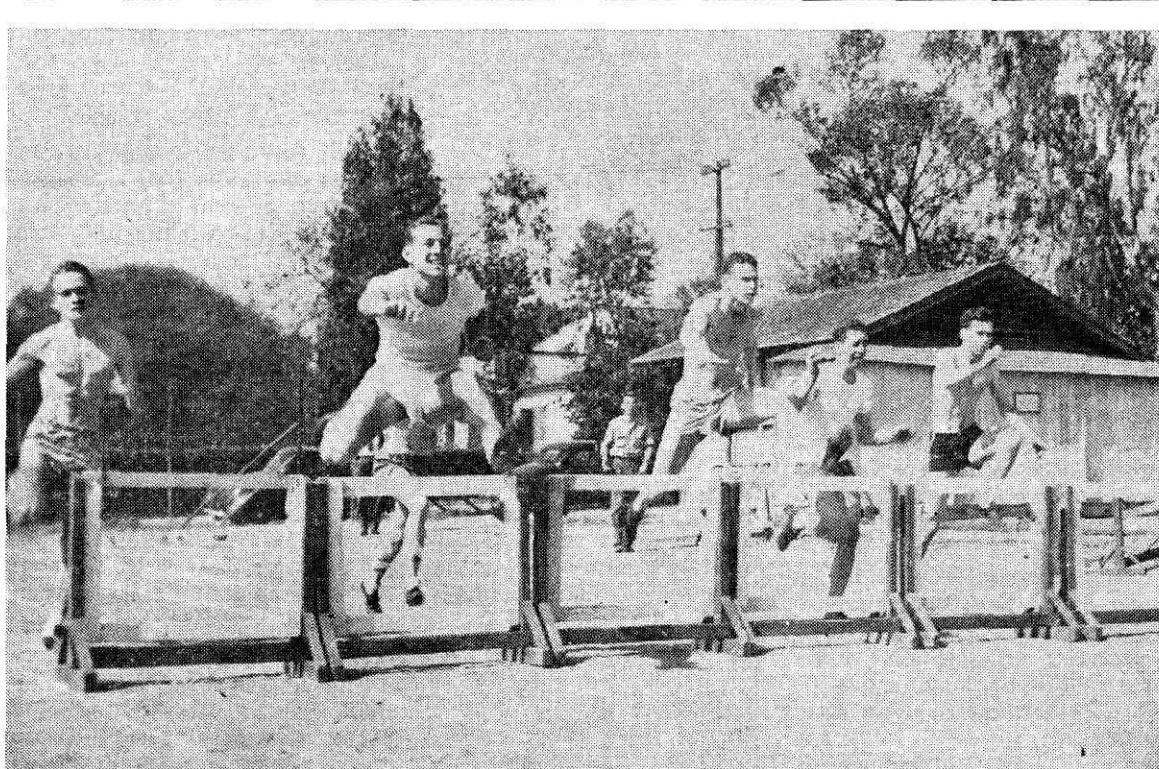
Instrumental in handing the Beavers their seventh straight loss, the last five of which have been in league competition, was Poet guard Gordon Pedersen. During the first half he helped his outfit roll up a 20-to-20 lead by maintaining a perfect shooting percentage. Pedersen made good all five of his shots at the basket plus two free throws in two attempts for 12 points. The Poet sharpshooter added five more points in the second half for a total of 17, high for the winners. He was topped, however, by the Engineer's Manuel Bass, who tallied 18 points.

Keyed up for the pennant-clinching contest, the Poets started off like a tornado and ran up a 17-to-5 lead before the Beavers could find themselves.

With seven minutes gone in the second half the Beavers had narrowed the Poet lead to 34 to 27 when Saltman's fifth nudge of the evening retired him from action. This was a crippling blow to the Engineer attack and in no time Whittier had pulled away, 50 to 30, their largest margin of the night.

The visiting Beavers staged a game rally in the last four minutes, outscoring the champs, 11 to 2, but this still left them on the short end of a 52-to-41 score.

Whittier (52) Caltech (41)
Martin (14) F. Bass (18)
Hooper (4) F. Tyson (6)
Moore (12) C. Saltman (6)
Pedersen (17) G. Stokely (2)
Wardman (4) G. Cox (2)
Barton (1) Vreeland (2)
Montgomery (3)
Greenwood (2)



HURDLERS—Off to a fast start in the 220-yd. low hurdles are Ronald Greene, Ricketts; Wayne Herzog, Dabney; Chuck Norman, Fleming; Bob Bible, Fleming; and Dick Spelman, Dabney. Norman nosed Herzog at the finish.

Beaver Frosh Drop Tilt to Whittier Poets

Caltech's Frosh basketballers couldn't have been much more frigid las Friday night as they gave the Whittier Freshman five its first victory the season, 54-37.

Airtight Defense

Unable to cope with the Poet defense of three men guarding the Poet basket with two men at midcourt, the Beaverbabes had a hard time finding their eyes, even at the free-throw line. Their sub-normal record on free shots was five for 21 attempts.

League Standings Unchanged

The defeat did not change the conference standings of the Beaverbabes, as the Redlands Frosh dropped a pair of tilts to Pomona's Sagehens over the past week-end. Tomorrow night the Frosh play their final conference game of the 1948 season, meeting Pomona at the Armory. Saturday evening the Beavers and their 14-game season at the Armory in a return bout with Loyola. Game times are 6:45.

Scoring:

Caltech (37)	Whittier (54)
Freise (7)	F. Chapman (8)
Sereno (9)	F. MacInnerny (11)
Butler (11)	C. Knolles (10)
Brewer (4)	G. Rehwoldt (6)
Greutert (4)	G. Grundeman (6)

Half-time score: Whittier, 27; Caltech, 18.

Scoring subs: Caltech—Libbey, 2; Whittier Phillips, 3; Jenkins, 6; Copeland, 4.

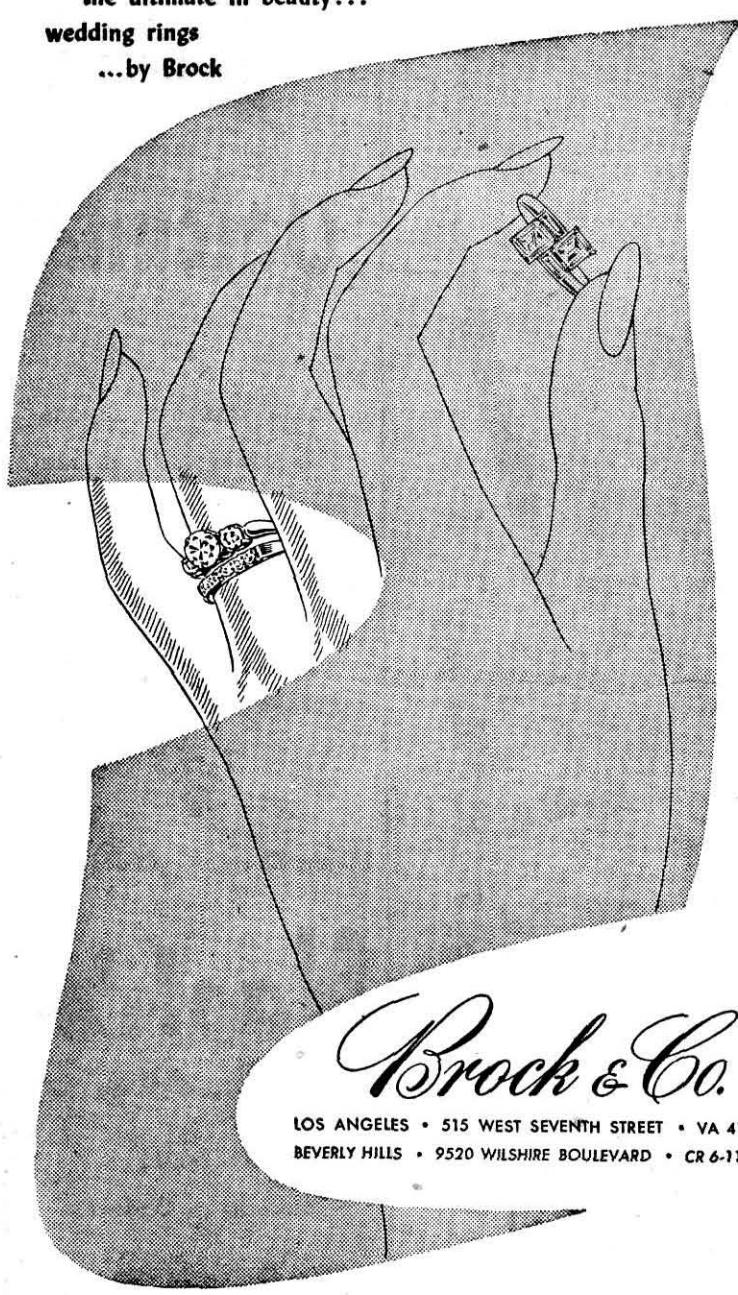
PASADENA BOWLING COURTS

970 East Colorado
Rendezvous 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

the ultimate in beauty...

wedding rings

...by Brock



Beaver Sports

Throop, Blacker Top Bowling Week

Interhouse bowling this week resulted in seven wins for both Throop and Blacker, while other houses captured only two apiece. As a result, Blacker rose from the cellar to fourth spot, while Throop extended its lead to a big 21 games over second-place Ricketts. Throop took all team honors this week: Throop No. 2 rolling high series of 2137, and No. 1 taking high game at 758. Present standings: Throop, 59 wins; Ricketts, 38; Fleming, 37; Blacker, 34; and Dabney, 32.

Week's High Scores
Highest series yet in the

league was scored by Woody Bratnaber of Throop with games of 171-202-210 for a 583 total. Every frame contained a mark with the exception of a split in the first game. Other big series this week were rolled by John Rider of Ricketts with 525, Ray Heggland of Throop with 518, and Don Barrie of Fleming at 503.

Eleven games above 180 were scored this week, the more impressive ones being: Ralph Stone of Dabney, 207; Bob Heppe of Blacker, 205; John Rider of Ricketts, 197; and Dick Marsh of

Petrellias, catcher for the Rowdies, was one of the best in that position, and the Ricketts outfield with Kachadorian and Winchester was also top ranking. Dabney and Ricketts got ten points apiece for their efforts in winning the third spot, and Blacker received five points for seeing the season through. Fleming, 193.

BLACKER NABS SECOND, MANY RECORDS FALL

In the finest Interhouse Track Meet in several seasons, the Fleming Powerhouse took first place by a narrow margin over a strong Blacker squad. The scores in the Saturday morning contest were: Fleming 49; Blacker 45; Dabney 32; Throop 15; Ricketts, 12.

Four interhouse records were broken by the fleet footed and strong armed Beavers in a meet full of fine performances.

Jack Marshall of Blacker lowered the mile mark to 4:47.6, while his teammate, Dick Cornelius, sliced the 440 yard dash record to 52.9. Chuck Norman of Fleming used his pitching arm to good advantage when he heaved the javelin to a new record of 165' 8", and Tom Hamilton of Dabney claimed the broad jump record leaping 21' 4".

Individuals Sparkle

Chuck Norman proved to be the most gifted individual on the field as he took high scoring honors of 13½ points, paced by firsts in the javelin and low hurdles and a second in the 100. He was closely followed by his teammate, Dave Madden, with 11½, whose first places were in the 100 and 220 yard dashes. Wayne Herzog of Dabney made 11 points by a first in the pole vault and two second places.

Many Good Marks

Ray Heggland of Throop took first in the high jump at 5' 8¾" while his leap of 21' 4" was a close second in the broad jump. Warren Marshall and Art Miller of Blacker had things their own way with the weights as they traded first and second spots in the shot put and discus.

Bob Cobb gained another win for Throop in the half mile, while Dirck Hartman of Dabney took first spot in the high hurdles. Blacker produced the winning relay team with Bill Sylves, Ray Bowerman, Jack Marshall and Dick Cornelius doing the half mile in 1:39.3.

As official competition draws near, the squad will engage in the Interclass Meet this Saturday morning at 10 a.m. in Tournament Park. Pre-meet dope points to the Juniors as favorites, but strong squads from all other classes should provide interesting competition.

MEET RESULTS

100—Madden (F), Norman (F), Root (R), Green (D). 10.5.
220—Madden (F), Green (D), Sylves (B), Wilcox (R). 23.5.
440—Cornelius (B), Sylves (B), Edwards (F), Carson (F). 52.9.
880—Cobb (T), Edwards (F), Bowerman (B), Cornelius (B). 2:10.7.
Mile—Marshall (B), Forster (F), Sellen (F), Kurland (D). 4:47.6.
High hurdles—Hartman (D), Sellon (F), Berg (T), Kariotis (D). 20.1.
Low hurdles—Norman (F), Herzog (D), Spellman (D), Greene (R). 28.1.
High jump—Heggland (T), J. Marshall (B), Soule (R) and Winchester (R). 5' 8¾".
Broad jump—Hamilton (D), Heggland (T), Sylves (B), Hartman (D). 21' 4¾".
Shot put—W. Marshall (D), Miller (B), Hibbard (F), Lewis (F). 37' 7".
Pole vault—Herzog (D), Francis (F), Biddle (F), Madden (D). 9' 6".
Discus—Miller (B), Marshall (B), Fuller (D), Darrow (R). 11' 2".
Relay—Blacker (Sylves, Bowerman, J. Marshall, Cornelius, Fleming, Madden, Norman, Edwards, Carson), Ricketts (Wilcox, Root, Greene, Steese). 1:39.3.

Monday Bowling

Tech's bowling is not the best in the country, but it is also far from the worst to be seen. An open invitation is hereby extended to all interested spectators to visit the Pasadena Bowling Courts on Monday afternoons and view the activities.

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HOTALING'S

TWO MEN'S STORES

54 East Colorado Street

921 East Colorado Street

CAMPAIGN STATEMENTS

(Continued from Page 2)

The many talents of **Ralph Lovberg** make him the leading candidate for Secretary of the ASCIT. Not only is he a top student but a great personality as well. His being elected President of his Fresh class, Secretary of Blacker House and Tau Beta Pi Outstanding Freshman of the year are distinctions which speak for themselves. This year, as photo-editor of the Big T, he has demonstrated his terrific capacity for great quantities of work of the best quality. Next year, Ralph would like to put this drive and ability into a student body job. You won't go wrong electing Lovberg secretary.

Stan Barnes, Nominator.**FOR TREASURER:**

For Treasurer, we need a man who can handle accounts. **Hugh Carter** has had this experience in his two years of editing the Little T. In 1946 he produced, single-handedly the first post war edition—a monumental job, considering all the organizing and soliciting of ads required.

Last year he co-edited the Little T with Bruce Worcester. In addition he has served on the Board of Directors as Publicity Manager, in 1946-47 (handling publicity for the school on all athletic events.) He also served on the Big T and was Feature Editor of the Tech.

With this varied experience, Hugh Carter is the man best qualified to be next year's Treasurer.

Bill Muchlberger, nominator.

I would like to hold the office of ASCIT Treasurer because I feel I have the qualifications, time and interest for such a position. Any student body office requires experience and the desire to work. I believe that my being class treasurer in my Soph and Junior years gives me the necessary qualifications. If you see fit to elect me, I shall do my best. But, win or lose, I've enjoyed running.

Bob Walquist.**FOR FIRST REP.:**

The First Representative at Large has a very important job requiring a tremendous amount of work. As social chairman of Caltech, he must plan and carry out all of the big dances of the year. I believe that I am qualified to serve you in this capacity. Last year I proved my ability to carry heavy outside activities by earning an honor key, which should speak for itself.

If I am elected my program as to the social life of Caltech is to hold a poll shortly after the elections to determine what **you** want as to the type, place, and

time of the future dances. I hope that you, the student body, are in favor of such a program and will let me serve you in this manner.

Bruce Robinson.**FOR SECOND REP.:**

When you go to the polls today, one of the issues facing you will be your choice of the man for the office of 2nd Representative. This job, besides being messenger boy, office boy and janitor for the Board of Directors, has the added responsibility of placing little white letters on a bulletin board in Lower Throop. In all the above occupations I have had considerable experience and I feel that I can handle the position capably. And if elected, I shall see that your best interests are represented at the Board of Directors. So remember when you go to the polls today:

NO BUTS ABOUT IT; BUT LER FOR 2ND REP.**Thorne Butler.**

Like that other stalwart citizen, Charles C. Charles, **Ollie Gardner** is proof that good things can come from Boston. His activities on campus have reflected both his extensive high school experience in student government and the overpowering sense of responsibility gained as a staff sergeant in his rich Uncle's army. He made the YMCA one of his first interests upon his arrival and now is serving on the Y cabinet. In his first year he has found time to manage the water polo team, work on the Big T and serve as Secretary-Treasurer of his class. In his spare time he can be found cutting a neat slalom in Snow Valley.

Ollie will bring an eagerness and personality to the office of Second Rep which makes him, I believe, the best qualified man for the job. He will serve you to the best of his ability and an abler man will be hard to find.

Dave Browne, nominator.

For a firmer foundation vote for Dick Libbey. I have the biggest feet on campus, so you can be sure my platform is stable. It's to do my best to represent the lower classmen and to do all that's possible to support inter-collegiate athletics.

Dick Libbey.**FOR ATHLETIC MANAGER:**

The Athletic Manager is an important representative of the Student Body. He is a member of the Athletic Council and will represent the men who give their time in athletic competition. He will also represent Caltech to other colleges with which we have competition. Also large

sums of money are appropriated to this office for the purchase of athletic awards and banquets.

I have the necessary time to do these important duties for the ASCIT Corporation. I also have had experience in the management of athletics in the inter-house competition. I have been on the football teams of '46 and '47 and the track team of '47 and understand the wishes of the men on the varsity teams. I intend to expend my best efforts to promote Tech athletic activities and will represent you with the best of my abilities in these matters.

J. C. Kariotis.

In reviewing the qualifications for Athletic Manager we find that first and foremost is an interest in athletics. As a member of the Board of Directors he should have an interest in student affairs. To do his job well he should have a certain amount of initiative and leadership. I believe that I have these qualities to the necessary degree and feel that if I were elected to the position of Athletic Manager I could do much more than a satisfactory job.

Bill Palmer.

The strength of athletic teams in the years to come will depend in great part on the encouragement given the incoming students to participate on those teams. The Athletic Manager has the opportunity at Fresh Camp to speak to the Freshmen personally, and as your Athletic Manager I would work to see a greater participation in athletics by encouraging men to report for sports regardless of whether they have participated before. I would also work to see better-arranged athletic schedules and that these games are given more notice.

Mike Sellen.**EDITOR RESIGNS**

(Continued from Page 1) the Board of Directors of the ASCIT, for their action tonight. "Before learning of this incident, we had considered last week's paper one of our most worthwhile issues. Although I cannot expect you to overlook this one breach of responsibility, I hope the rest of the issue did not lose force, to your minds, because of it."

—Len Herzog.**Classified Ads**

FOR SALE—'36 Nash Cpe. Eng. transm. just rebuilt. New clutch. Radio. Good Trans. \$290. Pollak. Blacker 38.

FOR SALE—1935 Oldsmobile 4-door sedan, 6 cylinders. Reconditioned motor. Only

\$350. Superb condition. New battery generator, water injection carburetor and milled heads. A. C. Anderson, Home Ex.

8355 or Coop. Wind Tunnel or see Bud

Mittenthal 41. Blacker.

FOR PUBLICITY MANAGER:

Men of Tech:

The Publicity Manager of the ASCIT can do a great deal in creating outside interest in the affairs and activities of the Tech student body. It is the constant aim of this representative to obtain more recognition for our social and sports programs. With these aims in mind, if elected, I will work to the best of my ability to do justice to our school and its activities.

Jack Ottestad,

Statement from Bill "Perry" Gothard—Candidate for Publicity Manager.

The duties of Publicity Manager call principally for the promotion of publicity for the school's athletic teams. Having worked on the sports staffs of both the City News Bureau of Chicago and the Chicago Sun, I believe I am familiar with the type of material which newspapers desire from colleges concerning their athletic teams. I have handled the publicity for the Caltech basketball team since January, including the write-ups of the games in the California Tech, and I feel I am qualified to extend my efforts next year not only to the other divisions of athletics but also to the promotion of publicity for the additional student activities which are under the jurisdiction of the Publicity Manager.

Bill Gothard.**CAMPUS BARBER SHOP**

In Coffee Shop Building
(OLD DORM)

CAMPUS BREWINS

Well, the Sorbs have finally had their day and it was quite an occasion. Nappy Lamare and his group provided some fine intermission music when they could be routed out of the bar. Once they were playing, the problem was how to stop them and get back to the dance music.

Best-Looking Sorb

Jim Hawthorne handled the contest admirably. He seemed to be quite an odd character and fitted in very well, going over quite well with the assembled throng who had never heard seal barks coming from a human being. It was interesting to watch the intense emotion appear in his face when that stirring Sorbian anthem was played.

Knee-Pants Win

Mike Hall won the contest with the waist of his trousers at his knees producing a rather off effect. But was well worth the effort and indignity to win the prize.

Driftwood

The female winner was Bob Benton's wife, Mrs. Benton. She came as something washed up on the beach and was quite fetching, although having her mouth hanging open and her eyes bugged out seemed a bit odd.

Quaint Sorbian Dress

Church Forester looked pretty daring in his bathing suit, and,

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BREWINS

of course, there were numerous people in military garb. J. C. Bear with cape looked most debonair and distinctly of that period. Bill Bouteille obviously interpreted the contest to mean an attempt to look like the ugliest man. He wore a burlap outfit that was very chic and in general looked as if he had just been rolled over in the gutter.

Many Sams Britches

On a whole the costumes were of superior quality, by far outdoing any costume dance held on other campuses this year. The men seemed to be more in the Sorb mood than women, throwing all inhibitions to the wind. It was amazing how so many people interpreted the Sorbian costume as not including pants.

Hardy Dabneymen & Others

Some of the more rugged Dabneymen made it to an exchange hamburger eating party the next afternoon. If they all looked as bad as Phil Lamson and Paul Fullerton at Monday breakfast it must have been a mighty rough week-end.

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