

Volume XLIX

California Institute of Technology
Thursday, April 22, 1948

No. 24

ASME to Convene Friday Talks, Dinners Featured

Student Papers to Be Given in Two-Day Session; Campus, Hydro Labs, Mount Wilson Set for Tours

Over half a hundred students representing the larger engineering schools in the Southwest will be on campus Friday and Saturday for the ASME Student Convention. The occasion for this assemblage of mechanical engineering students is the presentation of their carefully prepared papers in competition for prizes ranging from \$50 to \$100.

Judges

Three outstanding men in the engineering profession have been secured to act as judges. They are:

Mr. H. L. Doolittle, former chief design engineer of the So. Calif. Edison Co. and past vice-president of the ASME; Mr. V. A. Peterson, manager of the So. Calif. Div. of the Elliott Co. and chairman of this section of the ASME; and Mr. J. D. Hackstaff, consulting engineer.

Schedule

Another outstanding feature of the convention will be the Banquet at the Athanaeum Friday evening. The schedule is as follows:

FRIDAY, APRIL 23—
9:00-12:00 a.m.—Registration of the guests in Dabney Humanities Lounge and tours of the Campus and Engineering Labs.
12:15 p.m.—Introductory luncheon and welcome address by Prof. F. C. Lindvall at the Athanaeum.
1:30-4:00 p.m.—First technical session for presentation of student papers in 119 Kerckhoff. The Chairman will be Mr. R. E. Brown of the University of Arizona. Those presenting papers are: M. L. Campbell, Santa Clara; B. A. Salz, Cal.; J. W. Wechsler, Caltech; M. Myers, SC; D. J. Denkers, Stanford.
4:00-5:30 p.m.—Tour through the Hydrodynamics Lab in the West Wing of Guggenheim.
6:30 p.m.—Banquet at the Athanaeum, the Chairman being Mr. L. Holmes, SC. Mr. Bruce Rule, Chief Engineer of Mount Palomar Observatory, will speak on "Engineering Aspects of the 200 inch Telescope."
SATURDAY, APRIL 24—
8:15 a.m.—Honorary Chairmen Breakfast at the Athanaeum.
9:30-11:30 a.m.—Second technical session in 119 Kerckhoff. Papers will be presented by: G. C. Vane, Cal.; W. Seiden, Caltech; J. T. Meckill, SC; N. A. Vogel, Santa Clara.
12:00 a.m.—Luncheon in Blacker House—R. S. Dougherty of Santa Clara presiding. Prizes for the winning papers will be awarded by J. C. Brown, Regional Vice-President, ASME.
1:30 p.m.-5:30 p.m.—Field trip to the Mount Wilson Observatory.

Caltech Debaters Place at Stockton Speech Tourney

Surpassing 120 competitors from over fifteen colleges, Caltech's Bernard Rudin won fourth place in Extemporaneous Speaking at the tournament held spring vacation in Stockton, Calif. The official results which arrived recently also indicate superior performances by Leo Breiman, who placed in the semifinals of both Extemp and Impromptu Speaking, and by Irving Sulmeyer, who led to the semifinals of Extemp.

Annual Event

This tournament was the annual event sponsored by the national honorary forensic society, Pi Kappa Delta. This year it was held at the College of the Pacific.

The Caltech chapter enjoys the distinction of being the second one organized in California, having formed in 1922. Newly elected officers are Bernard Rudin, president, and Ulrich Mersten, secretary, who replace Irving Sulmeyer and Tom Vrebalovich.

"Y" Political Forum Monday; All Three Parties Represented

More excitement for the not-so-staid campus is due next Monday evening when the Y presents the Forum: Politics 1948, Title Bout. Time is 7:30. Place is 119 K.

Party Speakers

Three men are to speak, each wishing to assure the Tech machine that his party, and his alone, can save the country. The Republican is Willis Sargent, nine years an Assemblyman in New York, graduate of Harvard Law School, and one-time secretary of the Republican State Central Committee.

Demo and Wallace Supporters

Carl Diesenroth, well-known to Tech luncheon groups, will defend the Democrats, while none other than Judge Stanley Moffatt of South Gate will take up the Third Party cudgel.



Judge Stanley Moffatt

Judge Moffatt first achieved fame by arresting his own chief of police, and lately is under fire in the trial of a police officer in his courtroom. The University of Chicago and Stanford Law graduate has been outspoken in support of Henry Wallace, whom he believes to be carrying on the Roosevelt tradition.

Next Monday will be a rare opportunity for Tech to preview the claims and disputes that will develop in the following months.

Dabney, Throop Tie In Bridge Tourney

The first night of Interhouse Bridge competition was held last Tuesday, April 13, in Ricketts' Dining Room.

Teams representing each of the five houses are competing for the Goldsworthy Trophy in a series of four meetings.

Dabney, Throop Tie

The end of the first week finds Dabney and Throop tie for the lead with three wins and a loss apiece, while Ricketts and Blacker each have two wins and two losses. Fleming forfeited all four of its matches and trails.

Teams of four represent each house and scoring is on a total point basis.

The next meet will be held April 27 in Blacker Dining Room and will run from 7:30 to 10:30. Kibitzers are welcome.

Exchange, Beach For Dabney Men

Saturday evening Dabney holds its annual Department Store Exchange, when the men from the house will meet some of the counter girls from Bullock's Pasadena. In preparation for the event, scouting parties have been sent out periodically during the week to shop around for likely prospects.

With its customary foresight, the Dabney Social Committee has followed up the Saturday exchange with a Sunday beach party, to be held at Emerald

(Continued on Page 2)

ASCIT Publicity Manager, Class Officers To Be Elected

Forester New ASCE Polls To Be Located In Houses, President; Fresno Convention Nears

Last Thursday, April 15, the student chapter of the ASCE elected its officers for the year 1948-49, in keeping with a custom started last year which allows the newly elected officers to gain experience by working with their counterparts during the third term of this year. The officers elected for next year are Chuck Forester, president; Ray Davis, vice-president; Byrne Perry, secretary; and Charles Knight, treasurer.

After taking care of other business on hand, President Tom Waters announced plans for the trip to Fresno, where the ASCE is holding a state-wide conference for three days beginning April 22. In addition to the usual technical sessions there will be an inspection trip to Friant and Pine Canyon Dams. It appears that all attending will have an informative as well as enjoyable trip.

Herzog Named To ASME Presidency

The men elected as next year's officers of ASME are Wayne Herzog, Student Chairman; Harold J. Linderman, Vice-Chairman; and Sam Fong, Secretary-Treasurer. They will take over their new duties next week from the present officers, Bob Poindexter, Earl Beder, Bruce Gavril and Dave Reese.

The increase of 300% in the size of Caltech Student Branch over last year has made it one of the largest student organizations on the campus. Although a large proportion of the members will graduate this June, it is anticipated that next year's membership will exceed the present 55 members by a wide margin.

City Councilman Host To Fireside Grong

The second "Y" Fireside at the home of a prominent Pasadena family proved as successful as the first last Sunday when Mr. and Mrs. Preston Hotchkiss opened their home to a group of Techmen and treated them to a lively evening.

The Hotchkisses were entertaining hosts, providing an interesting time and delicious refreshments for all.

Mr. Hotchkiss is a member of the Pasadena City Council, a delegate to the Republican National Convention, and president of the Colorado River Association.

The first of the new series of Firesides was held the week before at the home of the John A. McCones, where Techmen found the pool refreshing. Dr. and Mrs. DuBridge added their presence to the gathering. Mr. McCone is a Trustee of the Institute as well as being an Institute Associate.

1949 "Little T" Seeks Editor

Stan Barnes, ASCIT president, announced today that candidates for the office of Editor (or Editors) of the "Little T", Caltech handbook, will be interviewed at the Board meeting next Thursday, April 29.

The position is considered the most remunerative of all the ASCIT offices, and competition is usually keen. Individuals or co-candidates should come prepared to offer experience and ideas.

Polls To Be Located In Houses, Throop, Dabney Hall, East Bridge

The elections for ASCIT Publicity Manager and for next year's class officers will be held tomorrow. Each class will have a separate ballot, and each class member must vote on the ballot for his class only. You are asked to bring your student body card. The polls will be open at the following places and times: In the courts of the houses and Throop Club from 12:30 to 1:00, in the Ricketts-Fleming court from 1:00 to 4:30, in East Bridge from 11:00 to 1:00, in lower Throop from 12:30 to 4:30, and outside Dabney Hall from 11:00 to 4:30. To date Ralph Lovberg is the only candidate for ASCIT Publicity Manager. The nominations for the class officers were made at class meetings last Monday.

Bill Woods Chosen New Beaver Prexy

The Caltech Beavers, honorary campus service organization, last Monday elected Bill Woods to the presidency of the organization for the coming year at a meeting held at the training table.

Officers

Other officers elected include Dick Schuster, vice-president; Don Sheppard, secretary, and Hugh Carter, treasurer.

Fleming men, seeing their railroad equalled for the first time recently by an unintentional Dabney bloc, craftily suggested the creation of a new office, for which they had an unrivaled candidate. The motion was carried and Paul Saltman is thus the first Beaver Tail.

Constitution

Other business included a unanimous acceptance of the new Beaver constitution, drawn up by Herzog, Wood and Sheppard. The new constitution provides for the election of faculty members to the Beavers as active members, thus making permanent a temporary experiment successfully undertaken this year.

ASCIT Queen

The organization also voted to sponsor a candidate for the ASCIT Queen-Crowning assembly May 14. Herzog was placed in charge of procurement.

At a meeting last night at Col. Goldsworthy's home, the organization voted in new members. Results of the elections will be announced in next week's paper. A Beaver initiation party is planned for Saturday, May 1, to extend throughout the day and most of the night.

Campus "Bombed" by Caltech Bible Club

The brightly covered 'gospel bombs' which Techmen found scattered around the campus yesterday morning were distributed by the Caltech Bible Club, an informal group of Institute undergraduates which meets regularly on campus.

In connection with the distribution of the pamphlets, which was authorized by the Dean's office, the club released the following statement:

"Our purpose is to present the claims which Christ makes upon all men. We have found in our own lives that Christ alone can meet all our needs and we sincerely believe that he can meet yours."

Nationwide Program

The distribution of the leaflets is part of a nationwide program being conducted throughout the United States, the idea for which originated in the local churches.

The Caltech group meets twice weekly, from 12:20 to 12:55 in room 304 Bridge for informal study of the Bible. It has extended a welcome to everyone on campus to participate. Persons interested in joining the group or in talking with one of its members map come to a meeting or contact Ray Sjodin, Don Hass, Bob Kofahl, Bill Lansdown, or Jim Alder.

Senior Officers

For next year's Senior Class the nominees are: President, Chuck Forester, Don Hibard, Bill Karzas; Vice President, Bill Simons, Chuck Wallace; Secretary, Erle Brown, Kent Terwilliger; Treasurer, Roy Gould, Jack Marshall, Bob Walquist; Board of Control members (2), Leo Breiman, Clay Engler, Walt Hirschberg, Dick King, Bill Palmer.

Next year's Junior Class nominees are: President, Dave Mackenzie, Don Baker; Vice-President, Carl Fox, Ralph Stone; Secretary, Mike Sellen; Treasurer, Roger Picciotto; Publicity Manager, Walt Davidson; Athletic Manager, Harrell Tyson; Board of Control, Red Furth, Monty Marx, Bob Crichton, Burt Housman.

For next year's Sophomore Class we have: President, John Fee, John Lewis, Walt Pfeiffer; Vice President, Thorne Butler, Dallas Peck, Bob Smith, George Suman; Secretary, Walt Edwards, Dick Libby, Ulrich Mersten; Treasurer, Pete Price, Bill Whitney; Athletic Manager, Bob Cob, Earl Hefner, Al Serano; and Board of Control members (2), Harry Begg, Lynn Crowwhite, John Flynn, Hiroshi Kamei, Tony Malanoski, Noel Reed.

Interview Schedule

April 21 BETHLEHEM STEEL CORP. interview of men notified.
April 22. CONSOLIDATED VULTEE AIRCRAFT CORP., San Diego, Calif., and Fort Worth, Texas. Mr. H. Schior, and Mr. H. Pope will be on the campus April 22, Thursday, for the purpose of interviewing MS, Professional and PhD candidates in Aerodynamics, Electronics, Physics, Dynamics (structural stability) after vibrations.
April 22 & 23. NAVAL ORDNANCE TEST STATION, Inyokern, Calif., Mr. G. M. Schroeder, and Dr. Benett. All types senior and graduate students in Ae and Ph.
April 26. HUMISTON-ROSENDAHL INC., Mr. M. O. Rosendahl. They are engineering constructors, participating in the construction of industrial, chemical, refinery and process plants, with particular emphasis on refinery construction. Positions open for Graduate civil or mechanical engineers to work under our Chief Engineer in performing the following duties: Quantity take-off analysis of drawings for bidding and material ordering purposes. Detailing of piping systems for field fabrication. Calculations as pertain to construction operations. Preparation of progress reports, engineering drafting. The location of this work is at our home office in West Los Angeles.
April 26 & 27. NORTHRUP AIRCRAFT, INC., Hawthorne, Calif., Mr. S. Krieger and Mr. R. L. Ehringer. MS, Prof. and PhD candidates in Aerospace Engineering.
April 27 & 28. WESTINGHOUSE ELECTRIC CORP., Pittsburgh, Pa., Mr. E. W. Morris and Mr. W. G. Wilson. Seniors and Graduate students in E, ME and BS men in APH—If advanced Ph, and Ma. Job will be in this company they are welcome to an interview also. All must go back East. General talk will be given at 4:30 p.m. on April 26th in 205 Dabney Hall. All who are being interviewed are requested to attend, to save their time as well as the company's. All others interested in learning about Westinghouse are also invited.
April 29. STANOLIND OIL AND GAS COMPANY, Tulsa, Okla., Mr. C. F. Pedford and Mr. S. B. Richards. B. S. men and up in ME, CE, EE, and CE in technical positions in the producing department. Mr. C. L. Larson will interview men, BS and up, for both the Geological and Geophysical Departments in Ge, Ph, and Ma. Job will be in middle Southwest, and Rocky Mountain Areas—Summer work available for a limited number of students who will graduate June 1, 1949.
Mr. C. F. Bradford of Stanolind Oil and Gas Company, Tulsa, Okla., will have a group discussion on April 28, 1948 at 5:15 p.m. Dabney Hall. All who are being interviewed are requested to attend, to save their time as well as that of the company. Anyone else interested may also attend.
April 30. HUNTER-DOUGLAS CORP., Riverside, Calif. Mr. J. M. Ivory and Mr. Charles Davison. Interview of men notified.
RADIO CORPORATION OF AMERICA, Camden, N.J., desires candidates for BS & MS degrees for openings varying in nature from advance development to design work, both in circuitry (electrical) and in mechanical fields. Also need technical graduates in production departments. All BS men must go through training course. Application blanks in Placement Office, deadline for their return, April 23.

Dr. Zwicky Leaves for Oxford; To Give Halley Lecture in May

Zwicky to Speak on "Morphological Astronomy" At Lecture Considered Top Honor by Astronomers

Oxford University's Halley Lecture, considered by astronomers as perhaps the top honor in that field, will be given on May 12 at Oxford by Dr. Fritz Zwicky, California Institute of Technology astrophysicist.

Dr. Zwicky, accompanied by Mrs. Zwicky, will leave immediately for England.

Subject of Dr. Zwicky's paper at Oxford will be "Morphological Astronomy" which will deal with the material contents of the universe, the material laws of the universe and the development of methods of attack upon astronomical problems.

A physicist who first approached astronomy from that field, Dr. Zwicky has gained renown for numerous contributions to

both astronomy and astrophysics. His survey of super-novae (exploding stars) has been unequalled by anyone and he is considered today to be the leading authority in the world in this field. He has made outstanding contributions to the dynamics of nebulae, especially of clusters of nebulae, concerning himself particularly with their tendency to group. He has also contributed much to the interpretation of the so-called red shift, which many leading men believe to indicate an exploding universe—a conclusion with which Dr. Zwicky does not entirely agree.

Distinguished Company

The Halley Lecture was founded in 1910 in memory of Edmund Halley for whom Halley's comet was named. Its founding in 1910 was based upon the return of the comet, as predicted by Halley, at that time. Since then, the lecture has been given each year by outstanding astronomers and astrophysicists throughout the world; including such famous British astronomers as Arthur S. Eddington of Cambridge; E. A. Milne, Oxford University; James H. Jeans, The Royal Society; and from this country, the late William W. Campbell, University of California; Harlow Shapley, Harvard University; and Henry Norris Russell, Princeton University; and Edwin Hubble, Mount Wilson Observatory, Pasadena.

Dr. Zwicky will visit the Paris Observatory soon after arriving in Europe where he will be a guest of astronomers there for three days prior to going on to Switzerland where Mrs. Zwicky will remain until they return to this country late in June. Dr. Zwicky will go to Oxford from Switzerland early in May and in addition to delivering the Halley lecture he will also deliver an engineering lecture at Oxford on the "Morphology of Jet Propulsion."

Campus Calendar

THURSDAY, APRIL 22—
Upper Class Luncheon Club at the Training Table, 12:00.
Throop Club Meeting, 12:20 p.m.
Y Cabinet Meeting, Y Lounge, 7:15 p.m.
Dancing Class, Culbertson Hall, 7:30 p.m.
Drama Club Rehearsal, 208 Dabney, 7:30 p.m.
Glee Club Rehearsal in Throop Club, 8:30 p.m.
FRIDAY, APRIL 23—
ASME Convention, 11:00 a.m.
Elections
Swimming Meet, Caltech vs. Oxy, there, 4:00 p.m.
Fleming Theater Party.
SATURDAY, APRIL 24—
Baseball Game, Caltech vs. Redlands, there, 2:15 p.m.
Dabney Exchange Dance.
SUNDAY, APRIL 25—
Musicals in Dabney Lounge, 7:30 p.m.
Ricketts Exchange Beach Party.
Dabney Beach Party.
Drama Club Rehearsal, Culbertson, 7:30 p.m.
TUESDAY, APRIL 27—
Baseball Game, Caltech vs. Chapman, here, 4:20 p.m.
Band Practice, Culbertson Hall, 7:30 p.m.
WEDNESDAY, APRIL 28—
Fresh Luncheon Club at the Training Table, 12:00.
Fencing Class Dabney House, 7:30 p.m.
Orchestra Practice, Culbertson, 7:30 p.m.
THURSDAY, APRIL 29—
Upper Class Luncheon Club at the Training Table, 12:00.
Throop Club Meeting, 12:20 p.m.
Y Cabinet Meeting, Y Lounge, 7:15 p.m.
Dancing Class, Culbertson Hall, 7:30 p.m.
Drama Club Rehearsal, 208 Dabney, 7:30 p.m.
Glee Club Rehearsal in Throop Club, 8:30 p.m.

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Tech Cowpunchers Cheered by News of Arizona Rodeo

Last week your ASCIT prexy was cheered to receive a chummy letter from Wendell "Pat" Patterson, ASTC (Arizona State Teachers College, at Flagstaff) president, regarding a projected Second Annual Intercollegiate Rodeo. The proposed date is May 8 and 9, 1948.

It is felt that Registrar Jones will be delighted to extend a leave of absence for such a worthwhile affair. With urging, H. Z. may even grant P.E. credit for such events as Bareback Bronc Riding, Calf Roping and Bull Riding.

A certain amount of confusion attended the arrival of the Flagstaff letter here. Our ever-efficient mail office, noting the subject matter was rodeo, promptly sent the letter to the Radio Club.

Barnes Answers

In answering Wendell "Pat" Patterson, our own Stanley "Barney" Barnes was quick to point out that the Techman's intimate knowledge of bull-throwing should qualify a large number of contestants for the major events.

It is not believed, however, that much interest will be aroused in the Girls' Pickup Race, nor such questionable contests as Father and Son or Daughter Tying.

Reap Glory

You, too, can bring honor and fame to Caltech if you have an entry fee, at least a six-unit load, and an overpowering desire to wrestle wild cows.

The Flagstaff hosts will be more than happy to provide stables for you and your stock, and it is even suggested that contestants may be allowed to eat at the college dining hall.

Dabney has given up entering its one-man team, Sage Burrows, since it was learned that the entry fee was \$30 per contestant.

Entry blanks may be had from Carl Price, who plans to make this novel event an integral feature of the ASCIT social program.

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CAMPUS BREWINS

The chief social activity of this past week end was the ASCIT Dance at the Altadena T&C Club. It was quite pleasant, but one got the distinct feeling through the evening that some other activity was also going on on the premises. In contrast to last year when only beer was served in the sumptuous bar downstairs and even the bartender went out to the parking lot, the bar was being used exclusively by some other motley crew.

The management did, however, manage to dispense whiskey and water upstairs, but nothing else. From a distance it looked like a bread line. Hap Hayward spent the entire evening going through for "seconds."

Swimming?

The movement to start up an informal swimming party in the outdoor pool, petered out as the evening wore on. Abner Kaplan was apparently another one of these out door sport advocates as he spent a large part of the evening with a date wandering around the golf course and plotting out strategy under the trees.

Warren "this time it's the real thing" Marshall was whisked off to a UCLA function with one of his true loves. It was easy to see what sort of a time he had from the look on his face. She produced such a remarkable effect on him that he spent the next day in church followed by a heavy gingerale drinking bout at the Bayou Room. He must be getting so he almost prefers the ones who speak English.

A striking contrast was presented at the dance by Bob "Maj" Barraclough whose date furnished gyroscopic stability for them on the dance floor; and Bud Mittenenthal who had his hands full pulling his cute little drag down from the ceiling all night.

Botts

Mac Botts got to the dance, but was so well supplied with bubbly water ("he thought it was fruit juice") by some Finnish friends that late-comers-in from the dance found him rolling on the floor of Dabney House lounge wearing only swimming trunks, shoes, garters, and socks. Mouth-dropping cheerfulness at all and sundry who passed thru, he was quickly quelled by the Major, who put Mac through a few fast drill routines before he remembered he wasn't in the Army any more. Coming out of the spell at last, he reacted in a manner that would have court-martialed him under every article of war invented and a few more for defamation of character. When last seen he was doing push-ups in the middle of the court, certainly a unique way to break the monotony.

A couple of Dabneyites also were noted shortly after this taking a poll of the houses to test some obscure point of grammar, but this does not necessarily have any connection with the team above other than that the other "Galluper" was Kariotis.

Jeff Disappears Again

After receiving a phone call from an unknown girl early last Saturday night, Jeff Williamson, Elder Statesman of Ricketts House disappeared for the second week end in a row for a thirty-six hour period. He must be awfully tired losing that much sleep.

Wheel Corner

In checking over a few of the

important wheels on campus, we find that the ASCIT prexy and V.P. have not received the proper amount of publicity due their position. Dennis "Pretty Boy" Long has been having a rough time with the fair sex. In fact it is rumored straight from Alley 1 latrine that of the last nine women he has called to get a date, not one would go out with him. He must be a Mauler!!

The other esteemee gentleman is the wheel of wheels, Stan Barnes who, at present at least, seems to be successfully burning the candle at both ends—due no doubt to a geographical phenomena of 400 miles. During the term a certain little gal Scrippsward holds his love but on vacation, it's a mighty pretty gal at Cal-Berkeley.

Fleming Propoganda

While on the subject of the Red, White and Blue House, as in Mudville when the mighty Casey struck out there is no cheer in Fleming after the trouncing they took at the hands of the "Mighty Mites" from Dabney in touch football. They have suddenly come to realize, after years of fat complacency, that there is going to be a white spot on the wall over their mantle peculiarly shaped like the Interheats trophy. For with the defeat today, Dabney holds a big advantage in the rest of the sports coming up*.

So it looks to us as if a new champion is coming up. With this bitter pill to swallow, the athletes have only one consolation: they will hold political sway next year, but evidently at the expense of their athletic prowess.

Ma Bunton Celebrates Birthday

On approximately 21 April, Mrs Bunton, Student House Manager, celebrated her twenty-first birthday and thus will be able to vote in the November elections. We feel that this column speaks for all the men in the Houses when we wish her many more happy birthdays.

*Editor's note: Fleming after its loss, still holds a 9-point lead in trophy competition and appears invulnerable in Basketball and Tennis.

EXCHANGE, BEACH

(Continued from Page 1)

Bay. The party is scheduled to start at 11 a.m. and continue through the rest of the day. Emphasis for the afternoon's activities will be on sports.

CROWN

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"The BRIDE GOES WILD"

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VAN JOHNSON
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Radio's Shudder Favorite

"Return of the Whistler"

Frosh Sports Roundup

—By Earl Hefner

Guest Columnist This Week: HIROSHI KAMEI

Caltech's Frosh spikemen have been plagued all season with inability to pick up the second and third spots which decide the track meets. This was emphasized Saturday when the Beaver-babe tracksters were nosed out in the three-way meet with Pomona and Whittier.

Dominate First Places

The dozen track and field men that compose the team certainly didn't lack in taking firsts Saturday. The Frosh took first in the 440, 880, mile, two-mile, relay, shot put, and discus. Bob Cobb, Walt Edwards and Art Miller were all double winners, and therein lies the story of the squad's lack of manpower.

Distance Events

Bob "The Machine" Cobb continues to be Frosh pace-setter in the mile and two-mile. He won both events without any trouble Saturday, only his teammate, Dick Smyth, giving him competition in the longer event. Walt Edwards ran two good races, and really put on a final burst of speed in the half-mile to overtake Jackson of Pomona. Ray Bowerman is one of the few who consistently pick up the much-needed runner-up points. Ray has never competed in high school competition, and may prove valuable in future Tech track teams.

A prospective quarter-mile was found in Harry Begg as he ran his first race Saturday. The Ricketts snake was nosed out of a third spot by a Pomona man.

Miller Takes Two Firsts

Art Miller came through as usual in the shot and discus by annexing first in each event. Art is another boy who has never competed in school track before. Saturday the Santa Monica heavyweight bettered his own shot record by a couple of feet when he tossed it slightly less than 40% feet.

Fee Recovers

John Fee suffered a wrenched knee two weeks ago, but placed a second in the Tech-Whittier discus affair. It was the first meet for John, and he promises to make trouble for Frosh opponents when he overcomes his handicap. Chuck Paulson remains the young Beavers' only hope in the sprints. Chuck was barely nosed out in the century and 220 Saturday. In the hurdles Ken Berg offers Tech's only chance for victory.

(Note: This week's column has been written by a member of the Frosh cinder squad, Hiroshi Kamei. Hiroshi is the team's only contribution to the broad and high jump events. The diminutive Frosh was one of the speediest men on the Freshman basketball team.

BOWLING AWARDS OFFERED

Manager Jim McGrath of the Pasadena Bowling Courts announced today that he will donate two trophies to the winners of the Caltech League Sweepstakes, scheduled for May 3.

Point Honors

A trophy will be given to the man rolling the highest individual game and the man compiling the highest three-game series, including handicaps. These handsome trophies will have the winners' names inscribed upon them.

Throop Leads

In last week's competition, Blacker lost all its games and thus replaced Dabney in the league cellar. Meanwhile Throop continued its victory march with seven wins, while Fleming took five and Ricketts and Dabney each won four.

High Games

Throop team No. 2 fired a hot 735-800-737—2272 for series honors while Ricketts No. 1 shot 744 and high game.

Woody Bratnobar of Throop tied the league high-game mark this week with a 244 game and added scores of 190 and 180 for a 614 series. Andy Check of Ricketts rolled consistent scores of 184-189-190 for 563 and Walt Eatherly of Throop garnered a 536 series. Other high games were bowled by Vern Edwards of Fleming, 198, and Bill Root of Ricketts, 189.

The Sweepstakes will be held on Monday, May 3, the week following the close of League competition. Entry is open to any individual who has bowled six or more league games, with a limit of eight men from each house.

Skiers Third In So. Calif. Snow Contest

The Caltech Ski Club concluded their season Saturday, April 17, coming in third, behind USC and UCLA, in the Southern California Interscholastic Ski Union championship meet.

The meet, held on Slide Peak, consisted of two runs of Giant Slalom. Excelling for the team was Jim Blom, who finished second out of forty-four contestants. Hank Schurmeier came in fourth for the squad.

Snow conditions were excellent for the get-together, and there will be skiing next week end at Slide Peak.

In the recent election of club officers Dick Schuster was voted

Frosh Tripped By Wave Nine In Close Game

Aided by 21 Caltech Frosh errors, the Pepperdine Frosh took a 16-11 decision from the Beaver-babes in a three hour game last Saturday Despite the Frosh mishaps, the Tech boys managed to keep in the game until the last out in the final stanza

Heavy Hitting

Both squads collected 12 hits as each team used a pair of pitchers. Louis Stallkamp started on the mound for the Underclassmen, but yielded to Dean Daily in the eighth inning. Stallkamp won batting honors of the day for the Frosh with 3 for 4, highlighted by his long homer in the eighth.

Poor Defense

The Beaver Frosh showed offensive power throughout the fray, but infield errors marked their defensive play, giving the Waves only four earned runs.

Pomona Powerful

In their first contest of the season with Pomona, April 3, the young Beavers were held to 5 hits as the Sagechicks scored a 15-3 victory. Pomona chucker Red Herbener went nine innings for the chicks, while Stallkamp and Daily split pitching duty for Caltech.

The Beaverbabe make their third attempt at a victory Saturday when they meet Oxy's Tiger-cubs at the rival field. "Batter up" will be called at 2:15.

Box Scores:	
Pepperdine vs. Caltech.....	2 0 1 5 0 4 3 1 0
Caltech vs. Pepperdine.....	0 1 0 1 1 1 3 3 1
Pomona vs. Caltech.....	1 0 2 0 0 0 4 6 2
Caltech vs. Pomona.....	0 1 0 1 0 1 0 1 0

president, and Blouke Carus was elected to the joint office of secretary-treasurer.

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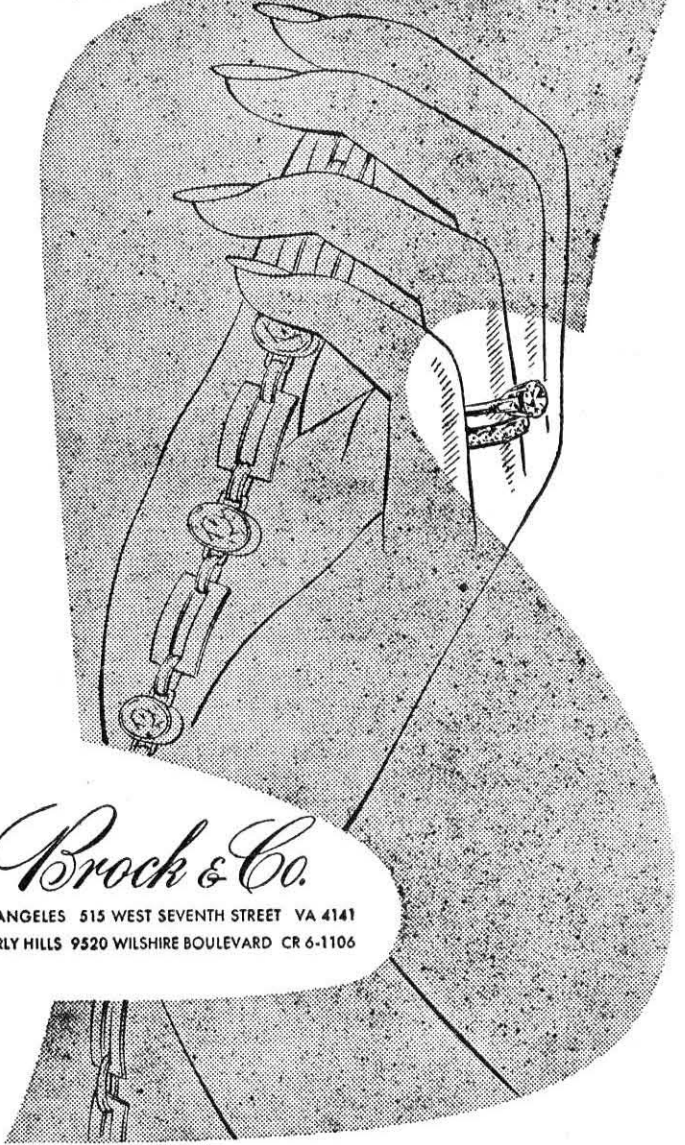
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BULLDOG, HEN, MERMEN DUNKED BY ENGINEERS

By taking first place in all but the fifty yard free style, and grabbing second and third place throughout a three-way meet, the Beaver swimmers swamped both the Redlands host and the Pomona paddlers last Saturday at Redlands. Final scores were Caltech 60½, Pomona 25½, Redlands 12.

Frosh Second

The Frosh finnen, lacking depth, dropped first place to Pomona, and edged out the Redlands Frosh for second place, with the final tallies at 40, 22 and 20.

Merrick Gives Lesson

Noteworthy events for the Tech tanksters were the performances by coach Bob Merrick, in the 220 yard breast stroke and in the final relay. Swimming unofficially and "for practice," the tank tutor really showed his boys how swimming should be done.

Oxy Saturday

Next Friday the squad journeys to Occidental for its second encounter with the Tigers. The gun goes off at 4:30 sharp.

Box Scores:

Medley Relay—CT 3:21.3; 220 yard free style—Curry (T); Eschner (T); Zimmerman (P); Thornberg (P); 2:42.9; 50 yard free style—Spear (P); Mitchell (T); tie Waters (T); Person (P) 27.4. Diving—Elmore (P); Waters (T); Duncan (R); Schneider (T); 100 yard free style—Dixon (T); Disney (P); Murphy (T); Chapman (R). 60.2. 150 yard backstroke—Montgomery (T); Hall (T); Conway (P); Long (R) 1:57.2; 200 yard breast stroke—Palmer (T); Lynn (R); Boicourt (T); Elmore (P); 2:45.3; 440 yard free style—Schoen (T); Waters (T); Danielson (R); Chandler (P); 400 yard free style relay—Caltech; Pom; Red. 4:08.4.

IH TENNIS Matches Start Next Monday

Interhouse tennis begins next Monday with Blacker-Fleming and Dabney-Ricketts matches scheduled throughout the week.

Each house meet will consist of two singles and a doubles match. Individual players will be allowed to play in only one match against each house. Participation in both a singles and a doubles match in the same meet will not be permitted.

Players will be determined by a ladder submitted by each house. Ladder revisions will be accepted until Monday of each week.

Following is the schedule:

April 26-30—Blacker vs. Fleming
Dabney vs. Ricketts

(Continued on Page 4)

Netters Crush Redlands Team In Tight Meet

The Varsity tennis squad came through again last Saturday with a 5-4 win over University of Redlands. The match was played on Redlands' sparkling new tennis courts which gave our boys a slow start, but four of Tech's singles men came out to win and once more a doubles match was taken by Alexander and Vadhanapanch to put the Beavers in the win column.

(Continued on Page 4)

Sports Calendar

FRIDAY, April 23:

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

Swimming: 5:00 p.m. Varsity and Frosh at Occidental.

SATURDAY, April 24:

Tennis: 1:30 p.m. Varsity at Pomona; Frosh vs. Pomona at Tournament Park.

Baseball: 2:15 p.m. Varsity at Redlands; Frosh vs. Occidental at Tournament Park.

TUESDAY, April 27:

Baseball: 4:20 p.m. Varsity vs. Chapman at Tournament Park.

WEDNESDAY, April 28:

Tennis: 3:00 p.m. Varsity vs. Occidental at Tournament Park; Frosh at Occidental.

Beaver Sports

Talkin' It Over with The Goon

The other day, while walking past that little green shack that houses the College of Physical Education, I was suddenly halted in my tracks by the distressed voices of two fair beauties. Without question, I rushed up the steps and without looking burst through the door. There was my mistake.

Mechanization

Before I could check myself I was sliding down a steep chute into the darkness. At the bottom was a conveyor belt which deposited me on a Toledo which stamped 195 on my shirt and then carried me off. The next device encountered was some mechanical monster which measured height, chest, waist, shoe and head size. After this a claw reached out and placed me in a chair under bright lights. Then an ominous voice began to ask ceaseless questions about age, high school experience, speed, etc. As if this were not enough, a tattooing pencil began scratching letters on my arm which I later found to spell **teckle**.

Final Step

Once again the clanking belt seized me and pulled my bruised and beaten body upward again. The next thing I recalled as consciousness was regained was that I was in the spacious office of "Fritz" Anderson (who, by the way, has decided not to take a \$100,000 studio contract to play opposite Lana Turner because he feels, "My roots are too deep in Tech.")

New Method

"What do you think of my new little gadget, Salty?" the coach asked. "It's been working better than that portable scale and tape measure I was using out in front of Throop last season." Sure enough, this diabolical contraption was the new answer to Tech's football problems. With the two charming sirens,

FOOTBALL PRACTICE TO START

With the majors opening this past week and spring sports at Tech reaching their climax, the pigskin sport may seem far removed to most Caltech men. Despite javelins and baseballs Coach Mason Anderson has issued the call for spring football practice to begin Monday, April 26.

Men Needed

The Beaver mentor wants men of previous experience to turn out, as well as any men who lack experience but have any desire or ability. Frosh and Sophomores with any speed, weight or ability are especially wanted. All prospects participating in current spring sports are asked to report upon the conclusion of their sport. The pigskin coach stressed the need for managers, and asks that those interested contact him.

Conditioning

The first week of practice will be devoted to conditioning, and the rigorous five week period of bruises and sprains will end with an intra-squad contest. Practice will be held on Monday, Tuesday, Wednesday, and Thursday of each week.

Anderson expects about 10 returning lettermen, and about 15 from last year's squad who did not earn "T"s. A new Caruther's charging dummy will face the Beavers' 1948 team, and its effects will soon be felt.

1948 Football Schedule
 *Saturday, Oct. 2 CAL POLY at San Luis Obispo
 *Saturday, Oct. 9, POMONA at Pomona.
 *Saturday, Oct. 16 WHITTIER at Whittier.
 *Saturday, Oct. 23 LA VERNE at La Verne.
 *Friday, Oct. 29 OCCIDENTAL at Rose Bowl.
 *Saturday, Nov. 13 REDLANDS at Rose Bowl.
 *Saturday, Nov. 20 PEPPERDINE at Pepperdine.
 *Night games.

Miriam and Miss McGee, to lure the luckless lads off the bricks, (Continued on Page 4)

Tech Cinderemen Drop Home Meet

Close Contests Cause Calamities As Tables Turned on Track Team

The Beaver track team went down to defeat in its second triangular meet of the year, bowing before the superior strength of Pomona and Whittier on the Tech oval Saturday afternoon.

Top Men Lose

The meet was merked by many ups and downs for the local spikesters. Two of Caltech's first place men were barely beaten in their respective events. Dwight Schroeder, who definitely was expected to take a first in the low hurdles, came over the last hurdle leading the pack but was nipped at the tape by a terrific finish on the part of Welsh of Pomona.

GREEN TAKES CRUCIAL, 12-0

Fleming Defeat Keeps Dabney in Trophy Chase

In a hard fought game Tuesday afternoon, an inspired Dabney six made history as it tripped an equally keyed up Fleming football squad, 12-0. The large turnout of Dabney's band and rooters for both teams made the competition even livelier.

Although the first score was not made until the last five minutes of play, Fleming threatened only once, as a result of a dropped punt, and the score could have read 24-0 if the Green had had luck on its side.

Dayman, Hamilton Score

Bain Dayman, Dabney half, scored the first TD when he took a long pass from Tom Hamilton and galloped the remaining 25 yards to paydirt. Hamilton personally accounted for the second score a minute later when he intercepted a Fleming pass at midfield and scampered around the entire Red team to score.

Dabney vs Blacker Today

This afternoon, the victorious Green will take on Blacker, with the record predicting an easy win and first place in the Interhouse League for the Darbs.

Blacker showed spurts of power and weakness as it managed to drop Throop into the cellar, 18-12 on Monday. Last Thursday, Fleming eked by potent Ricketts, 6-0, to set up Tuesday's "crucial." If Dabney had been held to a tie or beaten, Fleming would have clinched the Interhouse trophy for another year. But Dabney wins in the two remaining sports, tennis and basketball, can now give the Darbs the trophy, assuming they get the Blacker this afternoon.

Tyson Beaten

Hal Tyson who should have had a first in the shot-put according to the pre-meet dope sheets, was disappointed when Yates of Whittier hit one just right and walked off with the event on the strength of a solid 47 ft. 11½ in. throw. Tyson came back, however, and beat Yates in the discus with a heave of 130 ft. 1 in.

Good Marks

On the brighter side of the ledger, several Tech men turned in good performances. Martin Walt won the pole vault as he again went 13 ft. He took another stab at the C.I.T. record just 2-7/8 in. away but just couldn't quite make it. However, we still think Walt will put his name on the record books this year.

Men Improving

"Baldy" Brown got rolling and ran two good races in the 440 and the first lap of the relay. Elroy Chinn seems to be finally rounding into shape, showing definite improvement by coming thru with a third in the broad-jump against the powerful Whittier contingent. Jack Marshall in his first showing since his automobile accident, ran a very good mile, considering the little opportunity he has had to get into shape.

Frosh Second

In the Frosh meet Pomona again walked off with scoring honors as they copped both the triangular and dual meets. Caltech's Freshmen made fine showing in many events, and managed to win 7 events. In three-way scoring Pomona had 62, Caltech 48, and Whittier 41. The Frosh (Continued on Page 4)

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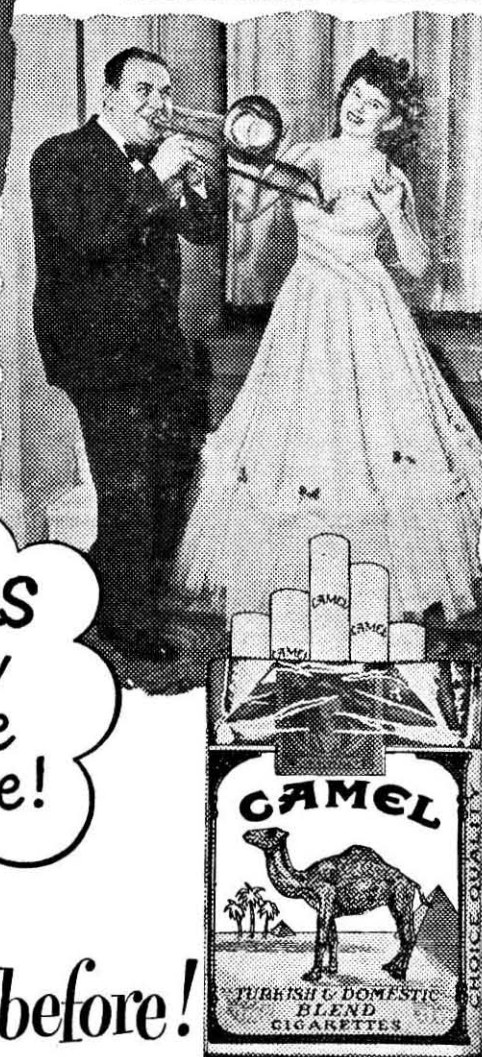
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TECH CINDERMEN

(Continued from Page 3)
dropped Whittier 68 to 51, but mate, Walt Edwards, won both the 440 and 880. In the field events Art Miller grabbed first in both the discus and shot put. Miller heaved the discus 123 ft. 10 1/2 inches. The mile relay was defaulted to the Beaver Frosh.

NETTERS CRUSH

(Continued from Page 3)
All No Losses
The Redlands match kept the batting average at one thousand for the Caltech netters so far this season. On Saturday, April 24, the Varsity travels to Pomona's courts with odds still on our side, but all matches should be close ones.

TECH GOLFERS DROP MATCH TO POMONANS

The Caltech golf team suffered its first defeat of the season last Saturday at the hands of the Pomona aggregation, 10 1/2 to 7 1/2. The surplus of barrancas and Eucalyptus trees covering Rancho Don Lugo, Pomona's home course, proved to be too much for the Techmen.

Moore (C) def. Parker (P), 3 & 2; Revay (C) def. Wilson (P), 1 up; Benton (C) halved Ortlieb (P); Henzie (P) def. Sims (C), 4 & 3; Lingenfelter (P) def. Hoffat (C), 4 & 3; Wilcox (P) def. Burrows (C), 2 & 1.

TALKIN' IT OVER

(Continued from Page 3)
and the machine to classify the prospects, no person—with any eligibility left—would be overlooked.
Spring Practice
All kidding aside, Andy begins putting his pigskinners through their paces this coming Monday on the Tournament Park gridiron.

CAMPUS BARBER SHOP
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guts any guy will make himself a berth on this year's eleven.

Empty Berths

The graduation route will leave quite a few gaping holes, not only in the backfield, but also in the line. Andy faces the difficulty of having many of his candidates out for other sports.

Andy was thinking of running not only an offensive and defensive squad this year, but also a time-out team that will go on the field when every the clock is stopped. Undoubtedly this will revolutionize the game!

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POETS WIN 19-4

Playing their poorest ball game of the season, Caltech's diamond men suffered a 19-4 defeat at the hands of Whittier, last Saturday.

IH TENNIS

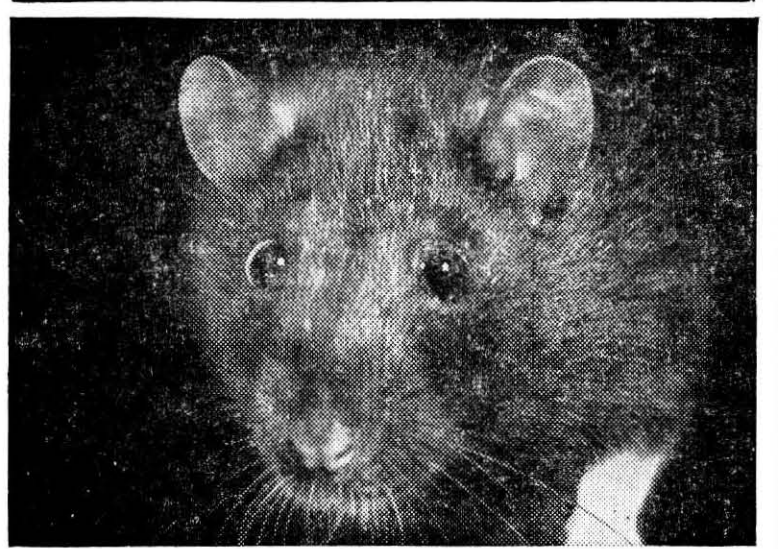
(Continued from Page 3)
May 3-7—Throop vs. Blacker Fleming vs. Dabney
May 10-14—Ricketts vs. Throop Blacker vs. Dabney
May 17-21—Fleming vs. Throop Ricketts vs. Blacker
May 24-28—Dabney vs. Throop Fleming vs. Ricketts

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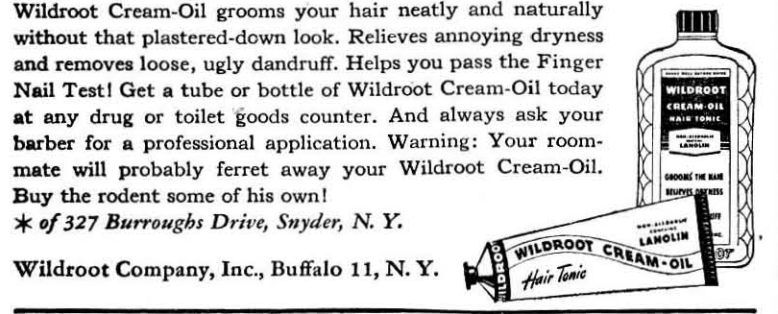
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