

Class Office
Nominations
Close
Tomorrow

CALIFORNIA TECH

SATURDAY
IS
APRIL 19

California Institute of Technology

Thursday, April 17, 1947

No. 23

Volume XLVIII

Tri-College Dance At Turf Club Next Saturday Night Limited Number Of Bids Still Available To All Students

For the finest evening spent in a long time, the Santa Anita Turf Club, at the Santa Anita Race Track, will be the place to be this coming Saturday evening, April 19th. Desi Arnaz and Don Ricardo have both promised to make it an evening you won't forget.

This week Radio Stations KMPC and KXLA have offered to give the Tri-School Dance a number of spot announcements each day. Listen for them; they will prove interesting.

Caltech "Y" Men Relax And Reflect

Twenty members of the Caltech "Y" joined in last weekend's "Relax and Reflect" conference held at Camp Seely in the mountains near San Bernardino. In addition to the Tech delegates were thirty fellows and girls from UCLA and 20 from USC.

Highlighting the "reflecting" part of the programme were Dick Mills, a member of the American Friends Service Committee, and Dr. Raymond Wasser, Minister of the First Congregational Church in Pasadena.

"Read More Books"

In his address to the conference on Saturday morning, Dr. Wasser stressed the fact that in applying Christianity to College life, students should attempt to utilize all their time. "Specifically," Dr. Wasser stated, "I advise you to: (1) Get the most you possibly can out of your classes; (2) do as much outside reading during the year as you can; and (3) get into all creative activities possible."

Following Dr. Wasser's address, the conference split up into discussion groups. The results of the discussions were to draw up several concrete ways in which the delegates could apply Christian principles daily.

Ottestadt and Markoff Perform

In Saturday night's entertainment programme, Claude Hanson from UCLA organized and led several folk dances. Also included in the programme were several skits put on by the different cabins the most notable of which was Ottestadt and Markoff's midget act.

Campus Calendar

Thursday, April 17—Upper Class Luncheon Club at the Training Table, 12:00. Dancing Class, 7:30 p.m., in Culbertson Hall.

Friday, April 18—Fresh Orientation Lecture on Mathematics by Prof. Ward in 119 Kerckhoff, 9 a.m. ASCIT Assembly. Demonstration of Skill and Strength by Arthur Blackmer and his beautiful assistants in Culbertson Hall, 11:00 a.m. Golf aMAtch. Pomona at Caltech, 1:30 p.m.

Field Trip (Goodrich Rubber Company). ASME and SAE, 1:30 p.m. Throop Club Exchange Dance with Oxy. Blacker Theatre Party.

Saturday, April 19—Track Conference eMet at Pomona. Tennis Match. Pepperdine at Caltech, 1:30 p.m. Baseball game. Redlands at Caltech, 2:15 p.m.

Tri College Dance. Oxy, Pomona, and Caltech at Santa Anita. Semi-formal. 9 to 1 a.m.

Monday, April 21—Band Rehearsal in Culbertson Hall, 7:30 p.m. Glee Club Practice in Dabney Hall, 8:30 p.m.

Tuesday, April 22—Baseball Game. La Verne at Caltech, 4:15 p.m.

Wednesday, April 23—Fresh Luncheon Club at the Training Table, 12:00. ASME Dinner Meeting in the Athenaeum for the presentation of student papers, 6:30 p.m. Orchestra Rehearsal in Culbertson Hall, 7:30 p.m.

Thursday, April 24—ELECTION OF CLASS OFFICERS Upper Class Luncheon Club at the Training Table, 12:00. Swimming Meet. Compton JC at Caltech, 4:30 p.m. Dancing Class, 7:30 p.m., in Culbertson Hall.

Muscles, Music Sex, Headline Assembly Tomorrow

Probably one of the most unique assemblies of the year will be presented tomorrow at 11 a.m. in Culbertson Hall, with a program which will include athletics, the Caltech band, and Women!!

Heading the show will be Mr. Arthur Blackmer, noted authority on physical fitness, who will present his exhibitions of strength and skill. Assisted by several beautiful girls, Mr. Blackmer promises to tear up the big telephone directory into quarters and eighths, drive a 20 penny nail through a heavy board with one blow on his bare fist, and lift a man clear of the floor with his teeth.

(Continued on Page 6)

Class Elections

Will be held next Thursday, at the usual polling places. Polls will be open at 12:30. Polling places and closing hours will be given in next week's Tech.

Prizes At ASME Joint Meeting

The ASME Student Branches of Caltech, USC, and UCLA will hold a joint dinner meeting in the Athenaeum with the Southern California Section of the ASME starting at 6:30 on Wednesday, April 23. The main event of the meeting will be a competition in which two students from each of the schools will present papers. A first prize of \$50.00 and a second prize of \$25.00 will be awarded to the winners.

Prof. R. L. Daugherty will act as chairman and the judges will be Mr. John Gallagher, Engineer, Texas Company; Mr. John D. Hackstaff, Consulting Engineer, and Mr. H. S. Spaulding, Engineer, C. F. Braun and Company.

The contest is sponsored by the Southern California Section and will be the first to be held since the war.

"Know Your Professor" Series Started By Y

The first of a series of Y-arranged "Faculty Firesides" was held at the home of Dr. and Mrs. Lindvall on Wednesday, April 9.

These firesides, which are designed to promote greater fraternization and extra-curricular contact between professors and students, include meeting the families of the faculty members (showing that they are human, after all); discussion of any topic under or over the sun which may interest the students, and refreshments, in this case very ably prepared by Mrs. Lindvall.

For details of plans for future firesides drop in at the YMCA office in lower Dabney Hall.

Peace Group Organized

Calling themselves the World Peace Group, a number of students are discussing what they can do to help bring peace to the world. They are organized under the auspices of the YMCA and meet every Monday noon in the YMCA lounge. Anyone with ideas or who is concerned about war and peace is invited to come.

Class Elections Next Week; Nominations Close Tomorrow

Meager Interest in Government Displayed By Scanty Attendance at Class Meetings

Class nomination meetings held last Friday, April 11, were attended by only forty Sophomores and even fewer Juniors. Despite this lack of spirit, business was carried on, and nominations opened for the class offices.

Juniors Nominate, Discuss Prom

After discussing the Junior-Senior Prom, the Juniors threw open nominations for next year's offices. Bill Boutelle, Tom Hamilton, and Bud Mittenthal accepted nominations for the Senior presidency. The one nomination for vice-president was Bob Winchester. The job of secretary is being contested by Bob Davis and Bob Levy. Erwin Markowitz and Bill Seidan will run for Treasurer.

The greatest number of nominations were for the Board of Control, including Sage Burrows, Bob Hepple, Steve Morrison, and Bill Shippe.

Soph Nominations

The men running for next year's Junior offices are:

Chuck Forrester and Paul Saltman for the Presidency; Jack Ottestad for vice-president; Jim Malone for secretary; Earl Brown and Bob Walquist for the office of Treasurer; John Heath, Dennis Long, and Bill Palmer, for Board of Control.

Nominations Still Open

Further nominations or corrections should be directed to Bud Mittenthal, Blacker, for the Juniors, and Dave Browne, Ricketts, for the Sophs.

Frosh Meet Tomorrow

The Frosh Meeting to nominate officers will be held tomorrow at a time to be announced. Nominations for the class of 50's new officers should be submitted to section leaders tomorrow, April 18. However, in addition, nominations from the floor will be accepted at the meeting.

Since it is anticipated that more nominations for offices will be handed in prior to the deadline, official lists will be published in the next issue.

Throop Barn Dance Is Big Success

Exchange Dance at Oxy Tomorrow Night

Throop Club opened its social program with a bang last Friday night, when the off-campus men staged their Annual Barn Dance, which was held in the lofts and stalls of the Throop Lounge.

Low lights and soft music, mixed with generous quantities of superb "Throop-only" refreshments helped to make the evening a success. Some forty-odd couples attended the affair and the traditional costumes of cottons and Levis put everyone at ease.

Dance at Oxy Tomorrow

Next event on the calendar for the Throop men will be an Exchange Dance at Oxy tomorrow night, at which our worthy men will get a chance to meet off-campus Tiger women. The dance will be sport and will be held in the Oxy "Cooler," starting at approximately 8 p.m. A sign-up list for members is now posted in the club lounge.

Placement Schedule

April 17 & 18—Westinghouse Electric Company—Electrical and Mechanical Engineers—Open.
April 23—Union Oil Company (Summer Work), Chemical Engineers—Restricted.
May 9—Int. Telephone & Telegraph Corporation—Electrical and Mechanical Engineers—Open.

(Continued on Page 6)

The California Tech

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EPHEMERAE

Still Poor

If it weren't for the apparently very elastic nature of class constitutional procedures, it is very doubtful whether it would be possible to hold class elections any time in the near future here at Tech.

Where else can you find a measly ten percent constituting a quorum? Lucky for the Juniors, for instance, with their great turnout of 25. The Sophomore class was in hardly any better condition.

If present trends continue, one might suggest that the quorum be defined elastically—in other words, set a new (and probably lower) figure at each meeting, depending on attendance.

Bright Spot

If any silver lining is to be found in the murky gloom hanging over the assembly-activity scene, it is that at least there were sufficient men interested in class government to provide enough candidates for most offices for lively competition.

By the way, nominations remain open today and tomorrow; delegated class officers, as announced in the "Tech", are charged with receiving them.

In This Issue

A new feature, "Your Campus", makes its debut. In it John Whittlesey plans to take his readers down into the sub-basements and up into the experimental stations of the varied Institute labs and research programs, emphasizing particularly the less-well known of these.

Turning to the sports pages, another new column appears. Called "Talking It Over," it will be the brainchild of Stan Barnes and Paul Saltman, the present and past ASCIT athletic managers, who should know what they're talking about.

Poor Man's "Front Burner"

As a result of extended research this observer has decided that the way to tell whether a picture is worth seeing or not in Hollywood is to observe the line inside the theatre. If there is one, best plan is to head somewhere else. The pictures without inside lines are the good ones.

(This is clever in that it excludes outside lines—which practically no small theatre is without, since there is no inside to speak of; outside lines are thus poor criteria—as witness "Fantasia" at the Marcal, a good picture; too small a house.)

Lucretzia

(Continued on Page 6)

From Other Campuses

The University of Alabama's Crimson-White reports that an increase in the G I subsistence pay is very unlikely at this session of Congress. The Veteran's Affairs Committee may recommend an increase in the married veterans' subsistence, but even this has very little chance of passing the Senate. Senator Robert Taft very clearly announced: "It doesn't have the chance of a snowball in hell . . ."

Humor Department

From the Cal Poly El Mustang: "An attractive girl is one whom a Scotchman takes home and he can hardly keep his eyes on the taxi meter."

From This Collegiate World: "This hydro-carbon series gives you ethylene, butylene, propylene, and," said the chem prof turning to write several symbols and numbers on the board, "what will this give you?"

From the front row: "That'll give you Darlene; it's her phone number."

Which Is the Largest?

Dr. Raymond Walters of the Univ. of Cincinnati, widely known educational statistician, has announced that the Univ. of Calif. now leads NYU with 50,109 students to 45,209, but NYU claims that the spring registration should be included and, therefore, she leads with 57,604. According to the Univ. of Tex. California leads with 50,109, but NYU is only sixth with 20,407. Somebody has been stuffing the ballot box.

Texas Humor

A Univ. of Texas prof was asking the names of his students:

"And your name, son?"

"Jule, sir."

"You shouldn't abbreviate. Your name is Julius." The prof went on to the next student.

"And your name is . . ."

"Billious, sir," replied a scared freshman.

Open the Door, Dick . . .

A Scripps co-ed left a list with her roommate—to avoid confusion, she claimed. It read like this:

"If I get a call from:

Mort—I have a guest for the week-end . . .

Bob—I've gone to Azusa.

Squeazy—Gone Home. Don't ever expect to be back.

Richard—I'm in the libe.

Come on over."

Time Marches On!

At a certain Pasadena college-rank institution, a professor apologizing for not knowing how long the class had run, said: "My watch has stopped and the hall clock is not running."

A voice in the back quipped, "There's a calendar right behind you."

ture is good, and it is adequately directed and, in spite of a flimsy plot, manages to entertain.

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Musical Baedeker

—Frank Valle-Riestra

Frequently, in scanning music magazines, the reader encounters the rather loosely defined term, **bash**. A bash, briefly, is a get-together of jazz musicians assembled for the purpose of blowing off steam and presenting something that is called, often in a humorous vein, a "concert". This sort of activity is usually supervised by a mastermind commonly known as an M.C.; his responsibility is to round up enough famous musicians to attract the public, and then to drag them out of beds, bars, bands, and other spots frequented by musicians, just in time to make the concert.

Bash in Pasadena

Pasadenans are in for a real bash, to be held on the night of Tuesday, April 29th, at the Civic Auditorium. This stupendous affair is the first of a series of jazz concerts entitled "Just Jazz"; it is sponsored and M.C.'d by Gene Norman, L.A. disc jockey, who is more commonly known to local jazz enthusiasts as "Stuffy."

Tremendous Line-Up

The line-up for the concert is truly a gallery of fame, just about every jazz musician of any consequence, at present in Southern California, will be seen. Leading them all is Benny Goodman and his clarinet, Red Norvo on vibes, and Peggy Lee on vocals. Some of the other well-known musicians to be heard are Benny Carter, Errol Garner, Vic Dickenson, Red Callender, Andre Previn, Dodo Marmarosa, Tommy Todd, Howard McGhee, and many others.

Concert or Bedlam?

When applying the term "concert" to jazz music, it must usually be used rather loosely, for most jazz concerts turn out to be repulsive and noisy affairs. There have been noteworthy exceptions, however, and if Norman's promise to bar screechers and barnyard tenor saxists is to

Your Campus

by John Whittlesey

(The first in a series of articles attempting to give Techmen a closer insight into the varied laboratory and experimental activities going on at the Institute—Ed.)

On entering Room 9 in the basement of Astrophysics, one finds, separated by large glass panels from the outer reception room, the office and conference room of Mr. Youtz.

Behind the office lies a small but very complete metal and working shop, equipped for everything from moulding plastics to firing clay. Further back are found a unique library of several thousand volumes devoted to industrial design, and a drafting room, somewhat more colorful than most on campus, containing paint brushes and sketch pads as well as T-squares. Class models are displayed in an exhibit museum in 16 Astrophysics. Thus consists the graduate school of Industrial Design.

Specialized Program

The school offers a specialized two-year course to train men in design for mass production. Particular emphasis is placed on appearance and consumer needs. There are now 21 students enrolled; 200 desire entrance.

Industrial Design is a relatively new field, established as a legal profession since only 1941. In Pasadena it began when a group of wealthy citizens decided that graduate art students should be doing something better than mural work for the W.P.A., that they might be rendered useful to industry. In 1938 a school was started at Carmelita Gardens, connected with Caltech only through inter-

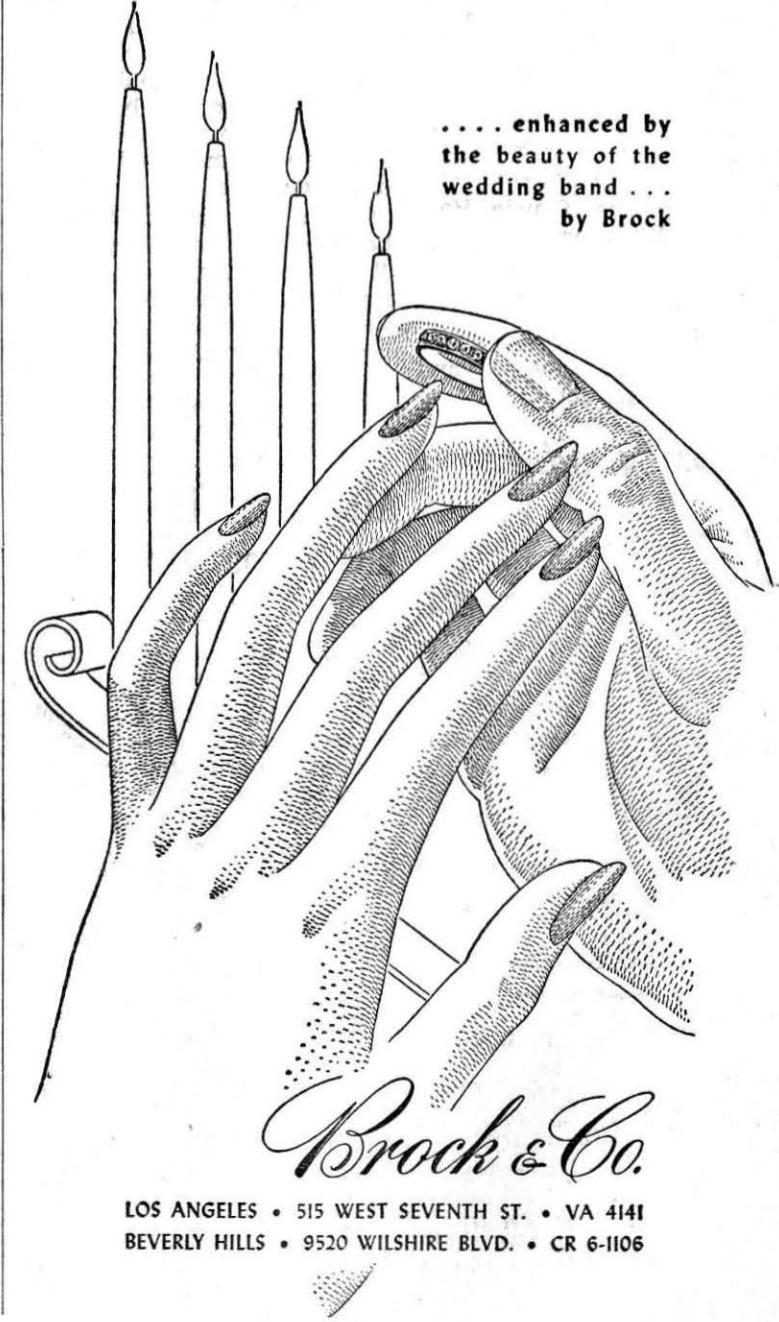
(Continued on Page 6)

be taken seriously, "Just Jazz" may turn out to be a truly representative series of jazz concerts.

Tickets Available

Tickets at \$1.00, \$1.50, and \$2.00 are available in Pasadena at the Bowling Ward Music Company, 712 E. Colorado. If the first concert turns out to be a success, jazz concerts at the Pasadena Civic will be monthly occurrences.

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Dr. Robert Sharp Appointed To Staff Tech Grad Strengthens Geomorphology Division

The California Institute of Technology is announcing the appointment of Dr. Robert P. Sharp as Professor of Geomorphology at the University of Minnesota.

Dr. Sharp received his Bachelor's degree in 1934 and his Master's degree in 1935 in Geology at the California Institute. He was a three-year letter man and in his senior year was Captain of the football team, as well as Student Body President. He was a member of Tau Beta Pi and was awarded the honor key on graduation.

In the fall of 1935 he went to Harvard on a scholarship and in 1936-37 was holder of the Woodworth Travelling Fellowship, awarded by Harvard University. His Ph.D. degree was obtained at Harvard in 1937.

On completing his graduate studies at Harvard, Dr. Sharp joined the faculty of the University of Illinois, where he remained until after the outbreak of the war, when he was commissioned in the Arctic, Desert and Tropic Information Center of the Army Air Forces. On release from war service he went to the University of Minnesota. He is the author of many scientific papers, the majority dealing with problems of geomorphology.

Tech Civils To Attend ASCE Spring Conference

A group of California Institute of Technology civil engineering students, members of the American Society of Civil Engineers' Student Chapter there, has been invited to attend a conference in Hotel Westward Ho, Phoenix, Arizona, April 24, during the three-day Spring meeting of the Society, scheduled for April 23-25.

The students will hear leaders of the civil engineering profession, some 600 of whom are expected to attend.

Eight technical sessions will mark the three-day meeting, at which leading civil engineers, experts on irrigation, reclamation, highways, air transport, sanitary and other civil engineering fields, will discuss post-war problems.

The 94-year-old American Society of Civil Engineers is the oldest national engineering organization in the United States, and throughout the country there are 123 student chapters affiliated with it.

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PAGE

Beaver Sports

Cal Tech Topped By Tough Tigers

Oxy Scores 7 Runs In Ninth To Win 12-7 Game

The Beavers came within one strike of winning the ball game against Oxy last Saturday, but a lucky hit opened the dike and six runs poured through. It was a tight game until the ninth inning, both teams matching run for run in the first three innings. After Oxy scored two in the first the boys came back with two runs in their half as Hedrick singled Petrusas and Norman home with two away. The same thing occurred in the second and third innings, each team scoring once in both innings. The Beavers went ahead, 5-4, in the fourth, but Oxy tied it up in the fifth.

Break in Sixth

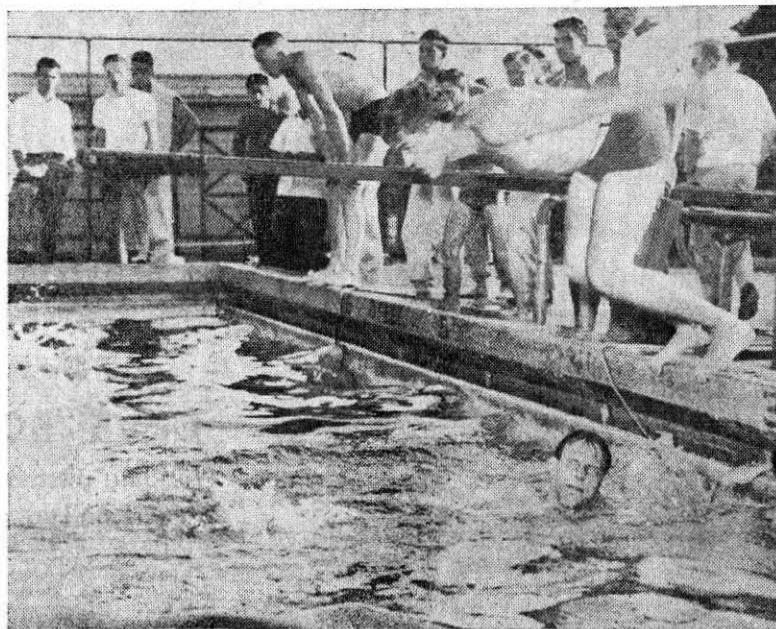
The break that looked like the ball game came in the sixth when Oxy's third baseman let Petrusas' grounder go through him to score two runs. From then on until the ninth it was one-two-three for both teams.

The Fatal Ninth

The first man up for Oxy in the ninth bunted safely, and after the next man flied out, he went to third on a double. The next batter grounded to Norman, who threw to third, forcing the runner. That made 2 out with a man on first when a single sent him to third. Hedrick got two strikes on the following hitter, who popped a lazy blooper to right field. The ball fell just two inches from Patterson's glove for a triple, which scored the winning run. From then on it was Oxy's ball game, as a hit and several errors compiled four more runs. It was the toughest game the team has lost this season.

Redlands Plays Here

This Saturday CIT plays Redlands here at Tournament Park.



Jay Montgomery and Bill Palmer in 300 Yard Medley

Weekend Sports

FRIDAY:

Golf: 1:30 P.M. Pomona at Santa Anita Course.

SATURDAY:

Track: 1:00 P.M. Conference Meet at Pomona.

Tennis: 1:30 P.M. Pepperdine at Cal Tech.

Baseball: 2:15 P.M. Redlands at Tournament Park.

Redlands has about the same caliber team as Oxy so it may be another close game.

CIT	AB	R	H	O	A
Patterson, rf	5	1	2	0	0
Butler, 2b	4	0	1	5	0
Norman, ss	3	0	1	0	2
Petrusas, c	5	1	2	9	2
L. Hedrick, 1b	5	1	2	4	1
Smith, If	4	0	1	1	1
Morrison, 3b	2	0	0	0	4
Mason, cf, 1b	4	0	0	5	0
MacGinitle, p	4	1	0	2	1
MacDonald, p	0	0	0	0	0
Totals	36	7	8	27	16
<hr/>					
OXY	AB	R	H	O	A
Trump, ss	4	1	0	4	4
Galassi, 2b	2	2	1	4	1
McLean, 1b	4	3	3	11	0
Osternan, rf	6	1	1	1	0
Fairbanks, 3b	4	0	2	1	0
Hall, 3b	1	0	0	0	0
Rhodes, cf	3	0	0	1	0
Coots, cf	1	1	0	1	0
Worner, If	3	0	0	1	0
Thompson, If	2	1	1	0	0
Fleishman, c	2	1	0	2	1
Rinehart, c	1	1	1	1	0
Giever, p	2	1	0	0	0
Perez, p	2	0	0	0	0
Totals	37	12	9	27	13
Oxy	2	1	0	0	7
CIT	2	1	1	2	0
	0	0	0	0	7

Summary: Errors: Norman (3), Petrusas (2), Smith (3), Morrison, MacGinitle, Osternan, Fairbanks. RBI: Butler, Petrusas, Medrick (2), Mason, Galassi, McLean, Osternan, Fairbanks, Rhodes, Thompson, Rinehart. 2-base hits: Petrusas (2). 3-base hit: Reinhardt. Double play: Morrison to Butler to Mason. Left on bases: Oxy, 10; CIT, 7. Struck out: By MacGinitle, 1; Hedrick, 6; Giever, 3. Winning pitcher: Giever. Losing pitcher: Hedrick.

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Tech Trounced By Tigers And Poets

Two Conference Teams
Hand Out Defeats

Twice during the past week the Beaver netmen got a dose of really tough competition on foreign tennis courts.

Alexander Stars Twice

After journeying to Oxy for a league clash there, the Tech squad members found themselves suffering acutely from the absence of Charlie Vadhanapanich. However, Ed Alexander sparked the team's play by taking his singles match, 6-2, 6-2, and then teaming with Tom Hamilton to win a doubles encounter, 8-6, 6-2.

Tied Match Halted by Dark

Those were the only bright spots in the Beavers' play, tough, for John Holmgren, Ray Palmer, Larry Nobles, Jim Suher and John McGuane all lost their matches. However, Larry Nobles and Dave Caldwell played a doubles match to a tie before darkness halted further play.

Poets Smother Techmen

In another conference clash on Saturday, Whittier played host to the squad from Beaverland. Pulling one of the biggest surprises of the season, the Poets jumped on the Engineers and gave them a beating they'll not soon forget. Only two sets in the tournament went into extra games and the Tech men merely garnered four sets in all the play as they went down to defeat, 9-0. Coach Johnny Lamb was certainly dismayed at the meager showing the Beaver courtmen made against the Poets' mighty efforts.

Forfeited to Dabney

Thus it was decided that because of lack of enthusiasm in other houses (possibly accentuated by a few unfortunate rumors) the Lilly meet had been forfeited to Dabney. Thereupon the Dabney skiers went back to bed.

Ski Club Comment

It has been criticized that the meet was not held last term. A ski club meeting was held last January primarily for the purpose of planning the meet. Nineteen people came to that meeting and voted to postpone the meet indefinitely. If there were ideas about time schedule why weren't they voiced then?

Famous Last Words

"A bunch of us got together last night and decided that it's been such a long time since any of us skied, that someone might break a leg or something if we raced."

GOLFERS
SHOOTING
FOR CONFERENCE

Golf Team Wins Second Victory; Defeats Redlands

Meet Strong Pomona Team
Tomorrow; Conference
Title May Be at Stake

The Cal Tech golf team chalked up its second straight win of the season in as many attempts by defeating Redlands, 14½ to 3½, at Santa Anita, the Beavers' home course. Losing only one of the six matches, the strong Techmen, paced by Jerry Harrington with a 74, Big Ed Revay with a 77, and Dave Douglas with a 79, had little trouble in besting the Bulldogs.

Pomona Tomorrow

Tomorrow afternoon at 1:30 p.m. Tech is host to a reportedly strong Pomona squad at Santa Anita. If Pomona can be defeated the golfers are well on the way to a Conference victory as Whittier, Redlands and Pomona will be replayed on successive Fridays.

Individual scores:

Harrington (CT) def. Thompson, 2 and 1.
Revay (CT) def. Moody, 7 and 5.
Douglas (CT) def. Smith, 3 and 2.
Gorden def. Burrows (CT), 6 and 5.
Benton (CT) def. Baker, 4 and 3.
Bennett def. Riegh, 2 and 1.

CALTECH AT OXY

SINGLES—
Xanthos (O) def. Holmgren (T), 6-4;
Miller (O) def. Palmer (T), 6-4, 6-0;
R. Jones (O) def. Nobles (T), 6-2, 6-2;
Moore (O) def. Suhrer (T), 6-1, 14-12;
Alexander (T) def. E. Jones (O), 6-2, 6-2;
Peckham (O) def. McGrane (T), 6-3, 6-4.
DOUBLES—
Xanthos-Miller (O) def. Holmgren-Palmer, 6-4, 8-10, 6-2; Hamilton-Alexander def. Jones-Jones (O), 8-6, 6-2; Moore-Peckham (O), tied Nobles-Caldwell (T), 6-1, 8-8.

Final score—Oxy, 6; Caltech, 2.

CALTECH AT WHITTIER

SINGLES—
Hamburg (W) def. Holmgren (T), 6-3, 6-2; C. Krueger (W) def. Palmer (T), 6-3, 6-4; D. Krueger (W) def. Van Anspanich (T), 2-6, 6-2, 6-2; J. Murray (W) def. Alexander (T), 6-3, 6-3; Tilton (W) def. Suhrer (T), 6-3, 3-6, 6-4; Diehl (W) def. McGrane (T), 6-3, 4-6, 6-2.
DOUBLES—
Hamburg-Murray (W) def. Holmgren-Palmer (T), 7-9, 6-4, 6-2; Krueger-Krueger (W) def. Vadhanapanich-Nobles (T), 6-2, 6-1; Tilton-Diehl (W) def. Alexander-Hamilton (T), 7-5, 6-3.

Final score—Whittier, 9; Caltech, 0.

PASADENA BOWLING COURTS

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Open 11 a. m. to 1 a. m. SY 3-1341
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Dabney House Notice

Dabney House will hold its

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Talkin' It Over

With Stan and Paul

Talking sports with Bermuda Bob Crichton in the Greasy the other day, he mentioned that there weren't enough ads this week to fill these six pages. Well, here we are, and the opinions expressed in this column are strictly our own and do not, and probably will not, reflect the opinion of anyone else in the school.

As any Techster over five feet tall and weighing more than 103 pounds knows, Coach Mason Anderson has his portable scale in operation and can be seen daily patrolling between Kerckhoff and Throop sizing up prospective talent for next year's eleven. He doesn't even say hello any more; it's just, "How much do you weigh, son?" Andy is ridin' herd on his beef trust every afternoon in Tournament Park getting the boys toughened up for the coming season. Andy says, "Any men who fill the necessary qualifications and do not suit up next week will get the same treatment I gave the Black Dahlia."

Turning now to the training room where Doc Hanes and his Munsingwear Men have their daily workout amidst the aroma of Mr. Musselman's cigar and Doc's pipe, we find the Oahu Cannonball, Elroy Chinn, and Bullet Bob Funk playing their nightly gin-rummy game under the heat lamps. While in the corner we find the shin-splint kid, Muscles MacLean, rubbing Doc's famous combination shoe polish and liniment over his concave calves. Watch these boys in the Conference Meet Saturday.

"The time has come," the Walrus said, "to speak of baseball games." We refer you to last Saturday's fiasco which featured Hustlin' Hal and his Hilarious Hybrids, who were clubbing the Bengals around the diamond for eight whole innings. And then—it looked like a merry-go-round the way those Tigers were running the circuit. But the squad batted well and the next game should find the Buffeted Beavers on top once more.

Fleming Challenged By Blocker For Discobolus

In an attempt to capture the prized Discobolus from the Fleming aggregation that has held it for over two months, the Blacker organization has challenged Fleming to a swimming meet scheduled for this afternoon at 4:30 at the P.J.C. pool. The meet will consist of a 300-yd. medley relay, 200-yd. breaststroke, and 200-yd. freestyle.

Blacker has shrewdly picked these events as Bill Palmer, Mike Hall, and Joe Curay, members of the Beaver swim team, shine in these races.

Fleming's opposition will consist of Chuck Murphy, Al Eschner, Bill Harris, Jay Montgomery, and Hank Schroeder.

Fleming won the Discobolus from Blacker in a volleyball contest and retained it when Ricketts forfeited a tennis challenge.

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Beavens Defeated By Poet Spikemen**Elroy Chinn Sets New Record In Broad Jump**

It was just another loss for Doc Hanes and his lads last Saturday on Paddock Field. In what should have been an easy victory for the Beavers, the boys from Whittier came through with some surprises—enough of them to down the locals 67-2-3 to 63-1-3.

Oahu Cannonball

With little Elroy Chinn going out 22'5½" for a new school record in the broad jump, the little lad from Hawaii erased one of Tech's oldest marks from the books. Ironically, a few minutes later, Brownell of Whittier jumped 23'2" to beat Elroy and better the Poets' standard for the event.

The Gazelle Again

Ken Shauer looked awfully good in winning the 440 in the near record time of 49.2.

While we're at it, congrats also to Don Peterson for a pounding eight laps in the blazing sun to garner a second.

Hurdlers and Shot Putters

Look for big things from Dwight Schroeder in the lows this Saturday in the Conference Meet. Just getting over a bad leg, Dwight's time last week: 25.2.

Although off his form this season, big Don Tillman hefted the shot 44'3½" to win the event.

Doug Brown finally decided to run another race and ground out the four-lapper in 4:52.3 to capture his second dual meet victory.

Also winning was Stan Barnes who stumbled around the 880 in 1:59.5.

100—Barton (W), Brownell (W), Deedon (W). 10.1.
220—Shauer (T), Barton (W), Funk (T). 22.0.
440—Shauer (T), Bayless (W), Cornelius (T). 49.2.
880—Barnes (T), Simons (T), Marshall (T). 1:59.5.
Mile—D. Brown (T), DePue (W), Kariotis (T). 4:52.3.
2 Mile—Cole (W), Peterson (T), D. Brown (T). 11:19.3.
High hurdles—Strahl (W), Schroeder (T), Saltman (T). 16.7.
Low hurdles—Schroeder (T), Braudrand (W), Strahl (W). 25.2.
Relay—Caltech, forfeit.

High jump—White (W), Litten (W), tie among Walt (T), Cooper (W), Morris (W). 6' 2".
Broad jump—Brownell (W), Chinn (T), Cooper (W). 23' 2".
Pole vault—Tie: Walt (T) and Vitt (W), Litten (W). 11' 6".
Shot put—Tillman (T), Fearey (W), Turley (W). 44' 3½".
Discus—Turley (W), Tillman (T), Fearey (W). 134' 3¾".
Javelin—Turley (W), MacLean (T), Litten (W). 181' 6".

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Field & Court

I see that I have a competitor who seems to be able to get the best space, but I will try to do the best with what I have.

Snow?

Some of the best snow conditions of the year were found by those who skied this last weekend . . .

Dead Cats

I hate to bring out dead cats, but I think that the skiing situation needs some clarification. It seems that Friday night, an individual, high in the ranks of the Ski Club, made the rounds of the Ski Club members and the conversation went something like this: "You don't want to race, do you? You don't? Well, neither does anybody in the other houses, so we won't have it."

Lame Duck

Apparently, there was a sudden change of plans, which those in authority decided to send through the correct channels, viz.—the house athletic officers. Various factors prevented the house officers from reaching all their men, and the first thing that most of them knew about it was an awful disturbance in the hideous hours of Sunday morning—something about skiing . . .

Forfeiture Not Legal

From what I have been able to discover about the rules of

Tech Men Swamped**By Oxy, Old Champs**

Team Met Pomona Wed.
Compton Next Thurs.

Last Friday the Caltech swimming team met the all-powerful Oxy team at the PJC swimming pool. The sun was bright and the weather fine, but Oxy still won. Oxy, by the way, is the defending Conference champion with a very good chance of remaining the top team of the league. We have one more chance to take this great team in a future meet, and the odds are not all in their favor.

Pomona at PJC

By the time you read this column the splashes of Tech will have already met Pomona at the PJC pool. Of course the results will be out, and it is a beforehand prediction that Tech will have a game to its credit.

Compton at PJC

Next Thursday, April 24, the team meets Compton JC at the PJC pool in another home meet, and if you come you won't be sorry. The Caltech splashes are

the Lilly Trophy, no mention is made of no race, therefore it will remain on Dabney's mantle, not through forfeiture, but because there is no legal resting place until next year.

Beavers Plan Entry**In Berkeley Regatta**

Plans for sending a team from Caltech to the Invitational Regatta to be held at Berkeley, under the joint sponsorship of the

University of California Yacht Club and the Pacific Coast Inter-collegiate Yacht Racing Association, are well under way. The races are to be held on Saturday and Sunday, April 26 and 27. One man "El Toro" dinghies will race on Saturday and bay racing craft, such as the PC's, will hold forth on Sunday.

A Caltech team placed seventh in the Pacific Coast Championships last December, giving to Stanford the trophy won by Tech in 1941. The reviving Tech team is under the direction of Alex Holser of Ricketts.

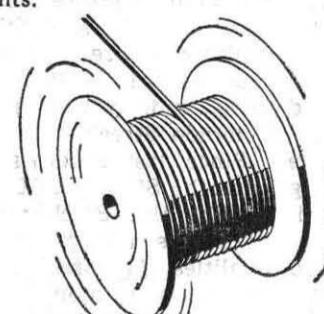
favored to win. This will be one of the last meets to be held so close to home. The time is 4:30 p.m. for most of the meets.

Here are the results of the past meet with Oxy.

Medley Relay — Caltech (Montgomery, Palmer, Mitchell, 3:31.1; 220 yd. freestyle—Scoles (O), Houser (T), Dixon (T), 2:36.0; 50 yd. freestyle—Crosby (O), Harris (T), Stephens (O), 25.0; Diving—Oliver (O), McKenna (T), Ross (O); 100 yd. freestyle—Crosby (O), Woodward (O), Murphy (T), 57.9; 150 yd. backstroke—Montgomery (T), Peterson (O), Armstrong (O), Clark (O), Dwelle (O), 253.5; 440 yd. freestyle—Scoles (O), Houser (T), Evans (O), 5:45.4; 400 yd. Relay — Oxy (Jacobson, Shrader, Crosby, Scoles), 4:09.4. Final score: Oxy, 46; Tech, 29.

**Newseworthy Notes
for Engineers****What is CV?**

CV is the answer to a tough problem. It stands for Continuous Vulcanization—a process developed by Western Electric engineers to speed-up and improve production of rubber-insulated telephone wire. It proved so efficient a process that more than thirty outside manufacturers have introduced CV into their plants.



Under previous methods, the rubber compound was fed by hand into a forcing or tubing machine which extruded it upon the wire. The conductor with this unvulcanized covering was coiled in pans in a layer of powdered soapstone and sifted chalk, with each flat coil separated from its neighbor by another layer of soapstone and chalk. The insulated wire in the soapstone and pan was afterwards placed in a steam vulcanizing oven and cured for approximately 45 minutes. An additional reeling or coiling operation was required and the complete process took from one to three hours depending on the insulation wall thickness.

Now the continuous insulating and vulcanizing machine—developed and built by Western Electric engineers—does the whole job in one operation. Rubber compound and bare wire are both fed continuously into one end of the machine and then through steam at high pressure which cures the rubber insulation in approximately 7 seconds. The insulated wire is taken up on reels in continuous lengths up to 30,000 feet in a fraction of the time required under the old panning process.

Halving the steps on Step-by-Step

Simplifying production of over 1,000,000 Step-by-Step "banks" per year—for use in dial telephone exchanges—gave Western Electric engineers an interesting assignment.

One of several types of "banks" consists of 200 brass terminals, assembled in 10 levels, the terminals of each level accurately positioned on a crescent shaped phenol fibre insulator which separates them from the next level. The entire assembly occupies a space of but 4½" x 2½" x 1½". Initially, banks were made in ten steps: (1) spray varnish on phenol fibre strips; (2) punch insulators from these strips; (3) punch individual terminals from coils of brass sheet; (4) assemble a preliminary pileup, picking up each terminal by hand,—200,000,000 per year, and accurately positioning it on the varnished insulator; (5) bake; (6) compress to secure terminals to varnished surface of insulators and then dismantle preliminary pileup; (7) make final assembly, inserting additional insulators and spacers; (8) bake; (9) compress and tighten clamping screws; (10) cut off excess length of screws and line rear mounting holes.



Western Electric engineers streamlined these ten steps into five: (1) punch insulators from unvarnished phenol fibre strips; (2) punch terminals, leaving them connected to each other, and wind into rolls; (3) automatically separate terminals from roll and eyelet to insulators in punch press equipped with dial feed tools; (4) make final bank assembly; (5) compress and tighten clamping screws.

Results—a 30% reduction in manufacturing cost, an improvement in quality, and more economical utilization of manpower and facilities.

Manufacturing telephone and radio apparatus for the Bell System is Western Electric's primary job. It calls for engineers of many kinds—electrical, mechanical, industrial, chemical, metallurgical—who devise and improve machines and processes for large scale production of highest quality communications equipment.

Western Electric

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Thomas Appointed By Governor Warren

Appointed by Governor Warren as member of the Colorado River Board of California recently, Dean Franklin Thomas attended the first meeting of this six-man board last week.

Dean Thomas will represent the Southern California Metropolitan Water District in protection of state interests in the water resources of the Colorado River in dealings with other states and the Federal government.

Directorate Office Open

The Board of Directors has set up office hours to transact necessary business during the day.

A member of the Board will be available in the Board room in lower Fleming from 2-4 p.m. Monday through Thursday, and from 11-12 a.m. each weekday except Wednesday, when a Board member will be present from 10-11.

The Friday 11 a.m. hour is assembly. The Board phone is Extension 685.

YOUR CAMPUS—

(Continued from Page 2) change of faculty and trustees.

Engineering Training Important

It was soon found that a broad engineering preparation rather than art training was needed if the industrial designer was to serve industry, and so, in 1941, the school was transferred to the Caltech campus; it was destined to become the most famous in the country.

The course includes training in design techniques, functional uses, production aspects, aesthetics, and costs. Instruction is given by Mr. Youtz and four other instructors, three of whom, incidentally, are partners in a Pasadena consulting firm called "The Industrial Design Associates."

Caltech Graduate

Mr. Youtz, C.I.T. '17, returned to Caltech in 1932; before this he enjoyed a most interesting career stationed with General Electric in South America. He rose to the position of vice-president of Lojas General Electric of Brazil. At Tech he now serves in several executive capacities: invention reporting, patent licensing, business manager of the California Institute of Research, and director of Graphic Arts.

During the war the Industrial Design School developed substitutes for critical materials, such as a clay heater, its only metal being two bolts. Other wartime "improvements" included four female research assistants.

A more complete idea of the activities and purposes of the department can be obtained from the current issue of "Engineering and Science."

New Hours

Beginning Monday, April 14, Institute switchboard closes at 6 p.m. Monday through Friday and at 1 p.m. on Saturday.

Classified Ads

WANTED TO RENT—3 bedroom furnished house, proximity of Huntington Library 2 to 2½ months beginning late June or early July. Write Hardin Craig, Jr., Rice Institute or call Wes Hershey, Caltech Extension 95.

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CAMPUS BARBER SHOP

Strong, Jones Leave To View Frosh Prospects

Early this week, L. W. Jones, Registrar and Director of Admissions at the Institute, left on an extensive tour of the eastern half of the United States, where he will interview prospective freshmen for next year. Dean Jones stated that he will probably personally contact over one hundred and eighty applicants in a trip which will include the cities of Chicago, Boston, New York, Philadelphia, Washington, Baltimore, and Pittsburgh.

Seeks Top Men

In commenting on his trip, Dean Jones noted that all of the men to be interviewed have made acceptable scores on the entrance examinations. Therefore, he said that the Institute would be most interested in the men who show real promise of becoming leaders in their respective fields, and who will contribute the most to the welfare of campus life, including athletics.

Strong Also Leaves

Foster Strong, Dean of Freshmen, is on a similar tour of the northwestern section of the United States. He will probably return to the campus about April 25, while Dean Jones will be in the east until May 5.

Sulmeyer To Speak At ASCE Meeting

Civil engineering student Irving I. Sulmeyer, will present a paper at the Student Chapter Conference of the American Society of Civil Engineers in connection with the Society's annual Spring Meeting in Phoenix, Arizona, April 23-25. His paper, "Pride and Unity in the Engineering Profession," was judged as the outstanding paper in a competition conducted by the Los Angeles Section of the American Society of Civil Engineers and he will present it in competition with winners from other Sections.

Electrical, Radio Groups To Hold Joint Meeting

The AIEE and IRE will hold a joint meeting in 101 Dabney at 12:30 Thursday, April 17, for the election of officers and planning of activities. The CES Constitution will be considered for ratification; copies may be read on Throop and Kellogg bulletin boards. All E.E.'s and others interested in the AIEE and IRE are invited to attend.

PLACEMENT—

(Continued from Page 1)

The California State Personnel Board has announced examinations on May 17 for the positions of Assistant and Associate Transportation Engineer and Senior Physical Laboratory Aid.

Some requests have been received for men with B.S. or M.S. degrees interested in the teaching profession.

Details concerning any of these opportunities can be obtained at the Placement Office.

PROMPT 5-DAY SERVICE

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CAMPUS BARBER SHOP

Campus Brewin's

The recent house elections saw a revival of more sundry rowdiness than has been seen since reconversion. Trick-of-the-year was pulled on Dean Johnson of Fleming, who in chickening-out of an honor traditionally bestowed upon the outgoing president, returned to find a cement mixer going full blast in his room, with a unique inscription on the revolving hopper. He actually seemed slightly P.O.'d about the matter. What's the matter, Dean, it was all in good clean fun!

Stack Job

Next award goes to the supreme stacking, or rather stripping job, done on Warren Marshall's room in Blacker. The newly elected Prexy returned from his evening dip to find four walls adorning his room, but little else. His desk was located atop the geology building and his bed in the basement of the Atheneum. Such other miscellaneous items as doors, window frames, wash-basin, medicine cabinet, light fixtures, etc., were scattered in remote unexplored regions of the campus.

To Dabney goes a Bronx cheer for letting most of the new officers get away. Not only that, one they captured, Dick Alexander, was deposited within a few blocks of his home. What's this about a woman on a horse?

Hot Toddy

Bud Mittenthal and Bill Karzas were dumped off in L.A. near the home of a certain charming friend of Bud's by the name of Joanne Shoneborne. She took the boys in, clothed them, and, ostensibly to keep them from catching cold, plied them mightily with hot toddies. The two arrived back at Tech, together with Joanne, at a wee hour and in completely exuberant spirits.

Around Campus

Saturday's informal dance in Dabney was another one of those quiet, dim affairs. My God, don't you fellows ever think about anything except trying to —, well, just trying?

Good news for pedestrian Scripps enthusiasts! No longer need you stay in on Wednesday nights just because the guys with cars mumble something about snaking. There is now regular bus service to Pomona, every hour, and making stops along Colorado Street.

Since last Friday's exchange with the SC and UCLA chapters of Phi Mu, Blacker men have been discussing the relative qualities of sorority women versus Scripps women. Let's look at it realistically, men, there is a difference. But it would hardly be fitting for me to attempt to express here what so many others have already said so well.

House Party

Barry Schuyler and Greg Young spent a fine week-end down at Balboa at a house party that lasted from Friday afternoon to Sunday evening. The girls were Mike MacEachron, Markie

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OPEN EVENINGS

Hardin, Sue Chambers, and Toni Flint, all of Scripps

What would you do with skunk oil, if you had any? Ed Mitchell and Bill Jarmie acquired some about 2 years ago and, after taking one whiff, promptly buried it in the most remote corner they could find in the catacombs. Building and Grounds scratched its head upon finding the stuff the other day, first had it checked for radioactivity, then took it to the Chem lab for analysis. Jarmie's name was discovered on the bottle and he was called up to do some tall explaining.

Miscellaneous Gleanings

Neville Long Brought Miss McGee of the Athletic Office to Fleming's record dance. After his date last Friday night, people are asking Ed Dufort what his score is now.

Little T

Applicants for the jobs of Co-Editors of the Little T must be at the Board of Directors meeting in the Board Room, Lower Fleming, tonight, in order for their applications to be considered. The job entails much summer work. A detailed description of the duties of the Editors is found in the Little T.

EPHEMERA

(Continued from Page 2)

For Techmen who enjoy the type of picture that is not run-of-the-mill, "Lucretia Borgia", now at the Sunset, is made to order. Free of the omnipresent Johnson Office, Henry Ullman has made a picture which, in spite of the difficulties presented to the American observer by the French text (mostly overcome by English titles), is recognizably far more realistic and potent than the watered-down Hollywood product. The story interweaves Papal history, Machiavelli ("The Prince"), and intrigue around the central figures, Lucretia and her brothers, in the days when the Borgias were Italy's most feared family.

—LEN

ASSEMBLY—

(Continued from Page 1)

Besides being strong and having lots of girls around during his act, Mr. Blackmer is also said to be a most interesting and entertaining speaker. He will close his portion of the program with a short lecture on ways to gain and retain physical strength and health.

Band to Play

Another sure-fire attraction for the assembly will be the appearance of the newly organized Caltech "Symphonie Seven", which will play several selections for men assembled.

New Registration Figures Given

Sophomores Lead With 228, Juniors Second; Grad Enrollment High

Enrollment at the California Institute for the third term totals 1307, it was learned today.

The Sophomore class shows the largest undergraduate enrollment with 228, with the Junior class a close second with 207, a drop of five students from last term.

The Frosh and Senior classes follow in that order, with 174 and 153 students, respectively, signed up.

Graduate enrollment continues at the high level reached during the last two terms, with 545 degree-holders returning for advanced studies.

Alumni Seminar To Be Held Here April 26

The tenth annual Alumni Seminar will be held on Saturday, April 26, at Tech. The campus program will include six addresses, while the evening program will include dinner and two more talks by prominent campus men. Luncheon and visiting hours have been planned so that alumni may renew old friendships at Tech again.

All members of the Caltech Alumni Association and their wives and guests are invited to attend this meeting. Registration is limited to 400, however.

Friday Oppenheimer Lecture Cancelled

The third lecture in the current Friday night series on Atomic Energy has been cancelled, it is announced.

The speaker scheduled for tomorrow night's lecture was Dr. J. R. Oppenheimer, Professor of Theoretical Physics, whose topic was "Atomic Energy as a Contemporary Problem."

A substitute date for the lecture was not announced.

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