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CALIFORNIA TECH

ASCIT
DANCE
SATURDAY

California Institute of Technology

Thursday, May 18, 1950

No. 28

Volume LI.

Fee, Lang Chiefs Of Upperclasses

LaTourette New Soph President

John Fee, Frank Lang, and Jim LaTourette were chosen to head the senior, junior, and sophomore classes, respectively, at the class elections last Thursday, May 11.

Completing the list of senior class officers were Ray Greutert, vice-president; Bob Cobb, secretary; Bob Munro, treasurer; Pete Mason, athletic manager, and Dallas Peck and Neal Pings, board of control members.

Fee defeated rival candidate Noel Reed for the presidency by a narrow margin.

Prexy's Word

The following statement was forthcoming from Fee, entitled "Report From the Class of '51"

"The whole Institute's curiosity was reflected in the questions that were directed towards me from a representative group of students today. Their inquisitive attitude could be summed into the query: 'What will the Class of 1951 do next year?'"

"Well, that's like asking one to describe the universe and give two or three examples, because the momentum that this class has received in its three years at Tech, coupled with the outstanding leadership that it will have next year in Greutert, Cobb, Munro, Mason, Pings, and Peck just won't let it slow down.

"Unused Ideas"

"True, we'll probably carry out the traditional Garden Party, Prom, and Class Day events, but its those 'unused' ideas that will grant us our claim to fame.

"Because of anticipated jealousy from members of other classes, plagiarism, green-eyed envy, and our love for grade points, we prefer (at the present) merely to call these ideas 'Operation '51.'"

Senior Skip Week?

"Who knows? Maybe we'll initiate a Senior Skip Week, propound a coeducational system for Caltech, or even present Throop Hall with a genuine glass-lined beer fountain complete with a 360 degree swivel head.

"All eyes are on the Class of '51."

Junior Officers

Prexy Lang will be capably assisted in leadership of the junior class by Babe Karasawa, vice-president; Barclay Kamb, secretary; Gil Kitching, treasurer; Norm Gray.

Frank Lang submitted the following statement on behalf of his cabinet:

"We, the newly elected officers of the class of '52, would like to thank all of the students who showed interest in the elections. First and foremost, we hope to have more direct contact with the whole junior class and are extremely willing to accept all suggestions.

Enriched Program

"As to our program, our junior and senior dances are not going to be routine affairs. We are striving to outshine all previous dances. As to other social events such as stags, beach parties, and so forth, we are already arranging for a meeting to discuss their possibilities and we guarantee a good time for all.

"Our capable athletic manager, Norm Gray, assures us of another victory in the interclass track meet. At any rate, we promise a lot of work and high hopes toward a successful junior year."

Sophomore Cabinet

LaTourette will have the able assistance of Dave Stevens, vice-president; Angel Ottati, secretary-treasurer; John Gee, athletic manager.

Campus Calendar

THURSDAY, MAY 18
12:00 Y Upper Class Lunch Club
12:10 Throop Club Meeting
6:05 Toastmasters Club
7:30 Dancing Class
9:00 Board of Directors Meeting in Lower Fleming
FRIDAY, MAY 19
11:00 Assembly in Culbertson
1:30 Golf, Conference Tournament at Whittier
SATURDAY, MAY 20
2:15 Baseball—Varsity vs. Redlands at Caltech
9:00 P.M. ASCIT Dance at the Oakmont Country Club
SUNDAY, MAY 21
8:00 P.M. Caltech Musical
TUESDAY, MAY 23
12:00 Y Frosh Lunch Club
WEDNESDAY, MAY 24
7:30 Orchestra Rehearsal in Culbertson
9:00 Glee Club Practice

YMCA Banquet This Evening

Stanford Dean to Speak on Religion and Education

Tonight some 100 Tech students will get the nutritious benefits of an Athenaeum-cooked steak, and the pleasure of hearing a speaker, Dean Clarence Faust of Stanford, from the outside world, along with Caltech-style entertainment, at the annual YMCA dinner.

Nominal Fee

Dr. Faust, Dean of Faculty at Stanford University, will speak on "The Interrelationship of Religion and Higher Education." Dr. Lee DuBridge, Ulrich Merten, Dick Libbey and Bob Crichton will give short talks. Dave MacKenzie, who, along with his committee made up of Bill Cox, Ralph Stone and Dan Markoff, has planned the dinner, will be the toastmaster. Dick Buck will play the piano as an added attraction.

The students will be able to attend this dinner at 6:15 in the Athenaeum for the low sum of \$1.10.

Dean Faust

Dean Faust, who came to Stanford from the University of Chicago in 1947, is the author of a number of publications including "Jonathan Edwards and Science," "American Literature," "Modern Philology," and

(Continued on Page 4)

Sorensen Made Life Y Member

Dr. Royal W. Sorensen was voted a life member of the Caltech Y's Board of Directors at the annual board and cabinet meeting last Thursday night to honor him for his 34 years of active and invaluable service to the Y as a member of its board.

New Board Members

The cabinet also elected five new members at the annual meeting to the executive board. These were: Dr. Gevurtz, Caltech's director of student health; Dr. Beach Langston, assistant professor of English here; Mrs. Morgan Ward, wife of Dr. Morgan Ward; Rev. Eugene Carson Blake, pastor of the Pasadena Presbyterian Church; and Ted Colman, a prominent alumnus of Tech and a former president of the Caltech Y.

Football Films to Highlight Friday's Student Assembly

See the Big Ten team win again when the 1950 Rose Bowl Game movies are presented tomorrow at 11:00 in Culbertson.

The color films of the N. of C. vs. Ohio State game were taken last January 2 by Lee Hensen, well known amateur photographer. They will be shown and narrated by Mrs. Lee Hensen through the courtesy of Silverwoods Department Store.

For Gridders

With spring training in progress, attention is once again centered on football. In keeping with this spirit, the Varsity Club has arranged and sponsored tomorrow's showing.

Coach LaBrucherie recommends that all present and prospective football players go to the assembly and see an exhibition of hard-fought football.

Pink Elephant

When Whittier College presented its exchange assembly, "The Pink Elephant," last Friday, the show opened with a bang; or at least with a crash of broken dishes dropped by a waiter.

The stage of Culbertson Hall was masked behind night club scenery for the assembly. Although it was the same old stage, the scenery and lighting helped greatly in the audience's enjoyment of the show.

Variety Plus

The night club entertainers, who presented the acts, proved to be far more competent than the waiter, and their efforts were loudly applauded by the

Film Scheduled By Fellowship

Next Monday morning the Caltech Christian Fellowship will present the color film, "Dust or Destiny." The film raises and gives an answer to the question, "Does man only return to dust, or is there an eternal destiny awaiting him?"

This film is the third of a series that the Fellowship has been showing this year. These films have been shown with the purpose of acquainting more of the campus with the claims of Jesus Christ and what He taught in His earthly ministry.

The campus is cordially invited by the Caltech Christian Fellowship to see this film, "Dust or Destiny," at 11:00 a.m. next Monday in 201 Bridge.

'Satan's Stomp' Saturday At Oakmont; Jazz Featured

Slow Music By Smitty's All-Stars; Cabaret Motif For Informal Dance

"Satan's Stomp," ASCIT's dance for the third term, will highlight this weekend's social program at Caltech, with Smitty and his All-Stars providing music for this informal dance.

The dance will be Saturday night, from 9 'til 1, at the Oakmont Country Club in Glendale, and the accompanying map should give the necessary information on how to get there.

Sweaters and Slacks

The dress will be strictly informal, according to Bob Davis, ASCIT first rep, with fellows wearing sweaters and slacks, and the women sporting sweaters and skirts. Anything else, such as sport coats, will be just as good, however, Bob added.

Chaplin Movies

During the intermission a 30-minute Charlie Chaplin film, "Caught in a Cabaret," will be shown. This will fit in with the decoration scheme, since the place will be set out as a cabaret, with tables for 100 couples. The bar will be open, incidentally. Non-alcoholic drinks will be served to those unable to present proper identification.

Jazz Combo

The featured combo consists of five locally well-known jazz musicians especially brought together for this occasion. There will be Nick Fato! on the drums, Stan Wrightsman at the piano, "Heinie" Beau on the clarinet, Vince Mucello on the bull fiddle, and as the leader Warren Smith, trombonist, who has played in Pete Dailey's band for a number of years. Individually these musicians do a lot of recording in the Los Angeles area.

Nice Slow Music

The band will play plenty of slow stuff, so you won't have to be an experienced dancer to get along. However, the combo will provide several hot dixieland breaks.

Admission will be by presentation of a student body card.

How to Get There



Ad Astra Per Aspera . . .

Home Grown 'Wac Private' Makes Eight Mile Flight

Science made another bold step forward at 7:45 last Sunday morning. The occasion was the launching of a six-foot hydrogen peroxide rocket, built by Lee Rosenthal, a Glendale College freshman, and Dave Elliott, a junior here at Caltech.

The launching, which took place at the Pacific Rocket Society Test Area, several miles southeast of Mojave, represented the culmination of more than a year of planning, construction and testing. More than two dozen spectators made the early morning trek to the desert to witness the two-minute flight which succeeded in bridging .000026 of the distance to the moon.

Hot Air

The rocket was powered by 25 pounds of 90% hydrogen peroxide, the peroxide being forced by nitrogen at a pressure of about 1800 psi. into a chamber containing aluminum pellets coated with manganese dioxide. The manganese dioxide served as a catalyst for the decomposition of the peroxide into oxygen and steam. This reaction is accompanied by a considerable "delta H," and the heated gases were passed out through the nozzle furnishing motive power for the missile. The firing lasted about 15 seconds, developing a thrust of 200 pounds and attaining an estimated maximum velocity of 1200 mph.

Architecture Div. Needs Engineers

Lack of on-the-job, practical experience need not prevent senior engineering majors from applying for positions with the State Division of Architecture, according to the State Personnel Board's recruiting staff. California's building program is so extensive as to warrant the employment of additional personnel in the construction field.

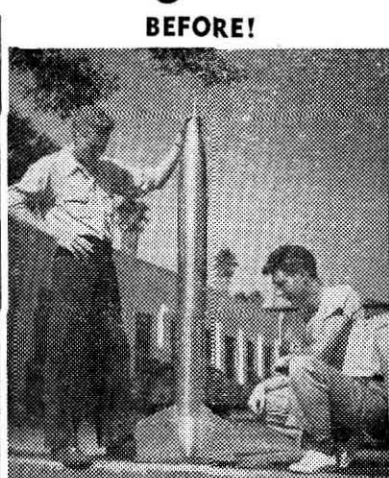
An examination for Junior Construction Inspector is to be held July 15th which has been specifically designed to attract senior students majoring in engineering who desire an opportunity for professional growth and promotion.

Start With \$341-\$415

Junior inspection jobs may lead to positions as an assistant with a salary range of \$341-\$415. Further advancement is through steps to Associate and Senior Construction Supervisors having opening salaries of \$415 and \$481.

Applications are being accepted for the Junior Construction Inspector jobs until June 24th, and must be filed with the State Personnel Board offices in Sacramento, San Francisco or Los Angeles before that date. Appointments will be made to vacancies occurring throughout California when the examinations have been completed and the employment list established.

Examination bulletins with detailed information are available at the Placement Office as well as the official application forms.



BEFORE!

There It Goes!

Upon firing, the rocket immediately rose through the 40-foot launch tube, and a slight wind upon emerging from the tower, then continued to rise at a slight angle until disappearing from sight. The path of the flight could easily be seen by the observers below, because of the distinct white vapor trails which the rocket left behind it.

The course of the rocket's flight was also followed by another group operating a photo-theodolite from a location three miles to the south of the launching site. This photographic record is expected to yield accurate data on the rocket's ascent.

Mechanical Brain Main Attraction At Air Symposium

To determine the flight characteristics of airplanes and guided missiles, more than 50 scientists, aerodynamicists and aeronautical engineers gathered on the Tech campus last Friday for a Symposium on the Application of the Electric Analog Computer to the Structural Problems of Aircraft.

Mechanical Brain

Main item of interest for the Symposium was the 33,000-pound mechanical brain located on the campus, and under the direction of Dr. G. D. McCann, professor of electrical engineering.

Those attending were told how problems which had previously taken men with ordinary computers months and even years to solve can now be done in a few days or weeks at most, thanks to the capabilities of the Tech Computer.

Amazing Solutions

How an airplane, or any section of it, or the control mechanism of a guided missile, will react under any conditions can now be solved with the "brain."

"It is now possible to check the design of a new plane from conception to completion using the Analog Computer. It will solve certain problems no other type can handle and give an analysis that cannot be obtained in any other way," Dr. McCann said.

Extensive Use

During the past two years the big computer has been used by nearly all the Southern California aircraft companies, and has also been in demand for similar

Concert To Be Given Sunday

The third concert of the current Spring Music Festival, sponsored by the Musicale and the Faculty Committee on Musical Activities, will be presented this Sunday evening at 8:00 p.m. in Dabney Lounge.

Two chamber music groups will be featured on this week's program. The first is a quartet composed of three graduate students and the wife of one of the Associate Professors: Eberhart Rechtin and Girair Nazarian, violins; Alice Leighton, viola; and Hans Wohlwill, cello.

Violin-Viola Duo

The second is a duo consisting of Rosemary McNamee, violin, and Mary McNamee, viola. The McNamees are members of the Pasadena String Quartet, which for two years was the winner of the annual Coleman Chamber Music Competitions, and was winner for a third year in conjunction with another quartet. Mary McNamee is secretary to Dr. Hallett Smith.

The program includes the String Quartet in A Major, K.464, by Mozart, and the Sinfonie Concertante in E Flat Major, K.364, for violin and viola, also by Mozart. For the last number on the program, the Boccherini String Quintet in C Major, the quartet will be joined by Dr. Pol Duwez, cellist, Associate Professor of Mechanical Engineering here at the Institute.

Violinist Featured

Next Thursday, May 25, at 8 p.m. in Dabney Lounge, Miss Barbara Brown, violinist, will give a recital which includes Handel's A Major sonata, Mozart's fifth violin concerto, Franck's violin-piano sonata, and selections by Szymanowski.

Miss Brown is a well-known musician locally, having won the 1949 U.C.L.A. Young Artists' (Continued on Page 4)

Libbey Sets New Record As Tech Tankers Place

As someone observed after the Conference Relays a few months ago, "Well, Caltech won the amateur division." But the Engineer swimmers did a little better last Saturday than just come in second to Oxy. For three of first places fell to the Beavers. Five of the top spots went to Oxy and one to Redlands.

Two-thirds of Caltech's 37 points were brought in by the two Richards, Libbey and Von Herzen. Libbey was also high point man among all the swimmers present with a total of 14.

Sets School Records
Besides winning both the 50 and 100 yard sprints, Libbey also set new school records in both events during the preliminaries on Thursday. His own old 100 record of 56.8, set last year in the preliminaries, was lowered to 56.4; and the mark of 24.8 in the 50 set by Piemme in 1945 has been reset at 24.7.

Von Herzen set no records, but he did show once and for all that he is faster than Oxy's McClusky, after placing second to him in the preliminaries. Von also took third in the 50 free, an event he started to swim only two weeks ago.

Brad Houser, showing great endurance and guts, took third in 440. He placed ahead of Scott

of Redlands who had previously beaten him in dual meet competition. Houser also placed fifth in the 220.

Near Upset
The nearest thing to an upset was Redland's surprising showing in the medley relay. As the breaststrokes finished the second hundred yards, the Bulldogs led by a body length. Oxy's Manning had to swim one of his fastest races to catch up and finally win the event.

This closes the tank season for the Beavers until water-polo rolls around next fall.

Results:
300-yard Medley Relay—Won by Occidental (Wadsworth, McClusky, Manning); second, Redlands; third, Whittier; fourth, Caltech. Time, 3m. 19.4s.
220-Yard Free Style—Won by Evans (O); second, Garray (O); third, Ragan (O); fourth, Grissel (P); fifth, Houser (CT). Time, 2m. 24.6s. (New league record. Old mark, 2m. 25s.)
50-Yard Free Style—Won by Libbey (CT); second, Wolf (O); third, Von Herzen (CT); fourth, Disney (P); fifth, Backett (O). Time, 25.1s.
Diving—Won by Vonkers (R); second, Tom (O); third, Hospers (P); fourth, Williams (W); fifth, Orme (O).
100-Yard Free Style—Won by Libbey (CT); second, Wolf (O); third, Van Vorst (O); fourth, Beckett (O); fifth, Disney (P). Time, 56.8s.
50-Yard Backstroke—Won by Manning (O); second, Wadsworth (O); third, Garray (O); fourth, Beckner (P); fifth, Bleaker (R). Time, 1m. 44s. (Manning set a new league mark of 1m. 42.6s. in the preliminaries.)
200-Yard Breaststroke—Won by Von Herzen (CT); second, McClusky (O); third, Brubaker (O); fourth, Livingston (R); fifth, Ford (P). Time, 2m. 41s.
440-Yard Free Style—Won by Evans (O); second, Ragan (O); third, Houser

Beaver Sports

Local Tourneys For Tomorrow

Friday afternoon the Tournament Park courts will be the scene of the annual Scott and Novice Tennis Tournament finals. These tournaments are limited to Tech students only.

Regular squad members and former letter winners make up the entrants for the Scott Tournament. In the finals Jack Poindexter, captain of the Varsity squad, will meet Palmer Smith, leading Frosh netter. Both men reached the finals by way of upsets; Poindexter over Blanchard and Smith over Martin.

The Novice Tournament, for those of less experience, will have Jim McQuiston playing Howard Preston. Awards will be presented to both winners at the annual Awards Assembly.

(CT); fourth, Scott (R); fifth, Grissel (P). Time, 5m. 18.5s. (Evans set a new league record of 5m. 14.9s. in the preliminaries.)
400-Yard Relay—Won by Occidental (Beckett, Garray, Wolf, Manning); second, Caltech; third, Pomona; fourth, Whittier; fifth, Redlands. Time, 3m. 53.2s.
Final Score—Occidental, 83; Caltech, 37; Pomona, 21; Redlands, 21; Whittier, 12.

Golfers Lose To Sagehens

After a brief interlude of victories, the Caltech golf team again resumed its normal game as Pomona Trampled them by the score of 13-5. As in the previous weeks, the only glimmer of hope in a sea of despair was Slammin' Ed Revay, the Hungarian Hacker. Ed again toured the Annandale 18 in the general region of par. His total score (not counting whiffs and penal ty strokes) was 73 lousy blows.

The spirit in the home camp this week is characterized by "Let's play golf for once in our lives." There will be four men playing their last conference match this week. Needless to say, these four plus two are really going to be trying their hardest to upset the favored Pomona from their throne of SCIC Champs. The 36-hole conference tournament this Friday will bring to an end the conference golf season. All it takes is four golfers and Caltech could come off with the title.

(Continued on Page 4)

Beaver Nine Downs Occidental, La Verne

Gray Goes Distance Against Tigers; Opponents Errors Score Tech Runs

Caltech's Varsity baseball team hustled to a five to two victory over Occidental last Wednesday. Norm Gray did a fine job of pitching, allowing only five hits. The Beavers also played a fine game in the field, making only one error. The Oxy team was held scoreless after the first inning.

Tech Scoring
Most of Caltech's scoring was made by taking the breaks when they came. In the first inning Karasawa singled, Wise walked, Snider singled, and Karasawa came in on a wild pitch. In the third inning after two outs had been made Stallkamp and Koons walked, Pfeiffer singled and Neverman was walked, forcing in Stallkamp. In the fifth inning Stallkamp singled, Koons walked, Baker then singled to score Stallkamp. Baker then stole second. Gray was safe on an error by the shortstop which scored Koons. Karasawa then singled to score Baker.

The lead off batter for Oxy hit a home run to score one of Oxy's runs. The other was scored when Stallkamp dropped the ball trying to make a double play. Both of the runs were scored in the first inning.
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La Verne Downed
Caltech's varsity baseball team came back to beat La Verne ten to nine. Dean Daily started pitching for Caltech. He gave up eight runs in the first three innings, five in the first, one in the second and two in the third. The team was a little ragged in the first inning making two errors which gave them some of the runs. Daily pitched up to the sixth inning. Norm Gray took over for two innings with no trouble. Stallkamp pitched the last two allowing one run in the first of the ninth.
Tech scored ten runs on sixteen hits. Five of the runs came in the seventh inning. All of these runs were the result of hits at the most opportune times. The opposing pitcher would walk a man, we would get some hits

Netters Eliminated
The tennis squad was eliminated in the first round of the All-Conference Tennis Tournament.
Last Saturday the Frosh finmen took third in the Conference Swim Meet at Oxy behind Oxy and Pomona. Al Haire brought in two first places in the 50-free and 200-yard backstroke. Frank Connor was second in the 150-back and fourth in the breast. Budding diver Leon Vickman also took a second in his event.

Tech Netters Drop to Oxy
Caltech's tennis team wound up its none-too-successful season last week. The final match was played against the league-leading Tiger racquetmen last Wednesday. LaFleur, playing fifth singles, won the only singles match for Caltech, while second doubles Poindexter and Ed Welch, won their third in a row for Tech's other point. The individual results are as follows:
Singles — Simpson (O) def. Blanchard, 6-2, 6-1; Thompson (O) def. Martin, 6-3, 6-2; Mauller (O) def. Baier, 6-2, 2-6, 6-1; Rice (O) def. Poindexter, 6-2, 6-3; LaFleur (CT) def. Dunlap, 6-2, 6-3; Howland (O) def. B. Welch, 6-2, 2-6, 6-4.
Doubles — Simpson-Thompson (O) def. Martin-Blanchard, 6-4, 6-3; Poindexter-E. Welch (CT) def. Rice-Mauller, 6-2, 6-3; Dunlap-Howland (O) def. Hyman-Butler, 6-1, 4-6, 6-3.
Last week-end some members of the team played in the Conference Tournament at Pomona. Jack Martin dropped his first match to Redland's Williams. Martin and Blanchard almost upset first-seeded Simpson and Thompson from Occidental, losing by the close score of 9-7, 5-7, 6-4.

CALTECH FOOTBALL SCHEDULE

- 1950
- Sat., Sept. 23, 8:00 p.m.—VARSITY CALTECH vs. Santa Barbara College, at Santa Barbara.
 - Fri., Sept. 29, 8:00 p.m.—VARSITY CALTECH vs. San Francisco State, at San Francisco.
 - Sat., Oct. 7, 8:00 p.m.—VARSITY CALTECH vs. Whittier, at Whittier.
 - Sat., Oct. 14, 2:15 p.m.—FROSH CALTECH vs. Whittier, at CT Athletic Field; VARSITY, BYE.
 - Sat., Oct. 21, 5:45 p.m.—FROSH CALTECH vs. Oxy, at Occidental; 8:15 p.m.—VARSITY CALTECH vs. Oxy, at Occidental.
 - Sat., Oct. 28, 5:45 p.m.—FROSH CALTECH vs. Pomona, at Rose Bowl; 8:15 p.m.—VARSITY CALTECH vs. Redlands, at Rose Bowl.
 - Sat., Nov. 4—BYE.
 - Sat., Nov. 11, 8:00 p.m.—VARSITY CALTECH vs. LaVerne, at LaVerne.
 - Sat., Nov. 18, 5:45 p.m.—FROSH CALTECH vs. Redlands, at Rose Bowl; 8:15 p.m.—VARSITY CALTECH vs. Pomona, at Rose Bowl.

Ski Club Selects '50-'51 Officers

At the last meeting of the Caltech Ski Club, the election of officers was the main item on the agenda.

The results were:
President, Pete Price.
Vice-President, Bob Stanaway.
Secretary, Bill Barmore.
Treasurer, George Stranahan.
It was decided that the vice-president's duties would include the job of race manager. The election of hut managers will be postponed until the first meeting of next year.

Rowdies Leading House Spikers

As the end of volley-ball season approaches, Ricketts has taken the lead while Fleming is still in a position to score an upset. As the scores stand now, the Rowdies lead with three wins and no losses; next is Fleming with two wins and no losses; Blacker with two wins and two losses; Dabney with one win and three losses; and Throop last with no wins and three losses.

Last Tuesday Ricketts gained their second win by downing Blacker in two straight games. The Dabney spikers overcame the Throopers on Wednesday in two out of three games. On Thursday Fleming pushed Blacker into third place by taking two straight (in spite of a new maneuver known as the "Fleming Shift"). Ricketts put themselves in front by beating the Darbs in two out of three on Monday.

With two games yet to be played, Throop can only tie for fourth, while Fleming can either take first, tie for first with the Rowdies, or tie with Blacker for second.

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At A Glance

BASEBALL—
Caltech, 5; Occidental, 2.
Caltech, 10; LaVerne, 9.
Oxy Frosh forfeited to Caltech Frosh.

SWIMMING—CONFERENCE MEET
VARSITY
Occidental, 83.
Caltech, 37.
Pomona, 21.
Redlands, 21.
Whittier, 12.
FROSH—
Occidental, 61.
Pomona, 52½.
Caltech, 42½.
Redlands, 2.

GOLF—
Pomona, 13; Caltech, 5.

TENNIS—
Occidental, 7; Caltech, 2.

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HOUSE SOCIAL NEWS

Pasadena Associates Will Enjoy Blacker Tea

Over 100 faculty members and prominent Pasadena citizens will be guests Sunday afternoon as Blacker holds its annual Associates' Tea.

Past teas have proved highly successful as they provide Blackermen the opportunity to meet many of the faculty and their wives on a social basis. The affair Sunday will be held in the Blacker Court, from 3 to 5.

Gala Spring Formal

Spring was welcomed by Blackermen and their dates at the annual Spring Formal last Saturday. The house carpenters spent two days transforming the court into a virtual garden of roses, sweet peas, and camellias. Judging from the large attendance (over 60 couples), the refreshments consumed, and the pleasant atmosphere, the dance was one of the more successful affairs of the season.

IRE Features Talk By Rankin Monday

The Institute of Radio Engineers plans to present a talk on Television Receiver Design by Mr. John A. Rankin, vice-president in Charge of Engineering, Hoffman Radio Co. The place is 155 Arms at 11 a.m. Monday, May 22. All interested in radio and television are invited to attend the meeting.

The IRE should be of interest to EE's and Physicists. Anyone desiring membership may get applications and IRE information from Ed Davis in 50 Blacker or at the meeting.

CONCERT SUNDAY

(Continued from Page 1)

competition and the Debut Time Contest. She has also appeared three times as soloist with the Pasadena Civic Orchestra, and with the All-Southern California High School Orchestra in the Hollywood Bowl.

There will be no admission charge to either of these two concerts.

MECHANICAL BRAIN

(Continued from Page 1)

analytical work on guided missile design by the Caltech Jet Propulsion Laboratory and industry. In fact, Dr. McCann revealed, the demand has been so great that there isn't time enough to handle all requests, even though the computer has been doubled in size since first put into operation.

Organizations in addition to the Institute which have used or are now using the computer include Douglas, North American, Lockheed and Hughes Aircraft companies; Langley Field, Naval Ordnance Test Station, Pullman Standard Car Company, Navy Bureau of Ships, and several others.

Technical Sessions

Technical sessions were held in both the morning and afternoon with the following papers presented: "Description of the Caltech Electric Analog Computer," by G. D. McCann, professor of electrical engineering and C. H. Wilts, assistant professor of Applied Mechanics; "Electric Circuit Analogies for Elastic Structures," by R. H. MacNeal, instructor of electrical engineering, and W. T. Russell, Major, U.S. Army; "Application of the Electric Analogies to Aircraft Structural Vibration Analysis," by R. H. MacNeal and G. D. McCann; "Computer Methods of Solving Complex Automatic Control Design Problems," by C. H. Wilts; "Applications of Analog Computing Techniques to Aircraft Problems," by P. A. Dennis, Chief of Engineering Laboratories, and D. G. Dill, research engineer, both of Douglas Aircraft Company. The symposium was then opened to general discussion for answering any questions of interest and to stimulate a frank evaluation of the computing methods to aircraft engineering.

From 3 to 4 p.m. the analog computer and other laboratory computing facilities were put into operation and opened for inspection by the visiting scientists and engineers.

Beachcomber's Blowout Planned by Dabney

A week from this Saturday the Darbs are featuring the first annual Beachcombers' Blowout thrown by and therefore named after and in honor of Winston Royce (II).

The party will start in the morning with the usual beach party goings-on and continue with horseback riding, fresh water swimming, and dancing in the evening (an Hawaiian theme, with sarongs, leis, et. al., for dates is planned).

Barn Dance

Everyone seemed to like the band and the entertainment at the Dabney-Ricketts Barn Dance. The Dabney crew racers swished past the Rowdies to a new world's record of 42.8 seconds; the enhousecoated ones won by three men and looked good all the way.

Hollywood Bowl To Offer Tickets

Tickets to the Symphonies under the Stars at Hollywood Bowl will be available to the Caltech Faculty-Student Body and their friends at reduced rates. In addition to the savings obtainable previously on General Admission, there will also be reductions on all reserved seats.

Hollywood Bowl has arranged a full season of programs including the opera "Faust," sung by a cast which includes Metropolitan Opera stars; the Ballet Russe de Monte Carlo, a Light Opera production, and well-known conductors and soloists such as Oscar Levant, Heifetz, Rubenstein, Koussevetsky, Rodzinski, Wallenstein and Jose Iturbi.

Further details will be given in a subsequent issue of the California Tech.

Schutz to Address Newman Club

"America, Catholicism and Religious Liberty" will be the topic of Dr. John Schutz, Caltech History Professor, speaking before the Caltech Newman Club next Wednesday, May 24, at 7:30 p.m. in 208 Dabney.

The talk will be followed by a question period.

Bible Students Map Resurrection Topic

The foundation of Christianity is the resurrection of Christ from the dead. Details and the significance of this event are given in John chapter 20. This chapter will be discussed next week by the Caltech Christian Fellowship on Tuesday and Thursday at 12:30 in 210 Dabney. Everyone interested in this vital topic is welcome.

YMCA BANQUET

(Continued from Page 1)

has in preparation a new book, "From Edwards to Emerson."

While at Chicago, where he served for 17 years, he held deanships in three different fields. In 1937 he received a \$1000 University of Chicago award for excellence in undergraduate teaching.

Once Headed Stanford

He served as acting president at Stanford prior to the time Dr. Wallace Sterling, former Caltech history professor, became head of that school.

The YMCA dinner is held each year to enable students, their parents and friends of the organization to meet together.

In addition to Dean Faust's address, there will be a short report of activities of the Y during the past year and new officers will be formally introduced.

Openings Exist For Researchers

The California State Personnel Board has just announced applications will be accepted until June 10 for an examination for employment as a Research Assistant to be held July 1st. The salary range is \$231 through \$281.

Work in the field is largely with Departments of Employment, Industrial Relations, Social Welfare and Public Health. Vacancies occur primarily in San Francisco, Sacramento and Los Angeles.

Statistics Requisite

The positions require college graduates who have included or supplemented their courses with one in statistics. Work of the Research Assistant is varied and uses several mediums to present data such as graphic, pictorial, tabular, and written form. Special research surveys and investigations are also involved.

Seniors interested are urged to file for the Research Assistant examination before June 10. Official application forms are obtainable at the State Personnel Board office, 305 State Building, Los Angeles.

BEAVER NINE

(Continued from Page 3)

and the runs just came rolling in.

Caltech	ABHOA	Occidental	ABHOA
Karasawa, 3b	5 2 1 1	Harper, cf	4 1 1 0
Wise, cf	3 1 3 0	MacKenzie, ss	4 2 3 3
Snider, lf	4 1 3 0	Hawkes, 3b	3 2 0 4
Stalk, mps, ss	4 2 4 3	Manoogian, lb	4 0 1 1
Koons, lb	3 0 9 1	Galassi, 2b	3 0 2 3
Pfeiffer, c	4 1 3 1	Lazzarini, lf	3 0 1 0
Neverman, rf	3 0 0 0	Wilkinson, rf	3 0 1 0
Baker, 2b	4 1 3 3	Ditto, c	4 0 9 1
Gray, p	3 0 0 2	Sturdevant, p	2 0 0 1
J. Smith, rf	1 1 0 0	Hall, p	2 0 0 0
Totals	34 8 27 11	Schaffer	1 0 0 0
		Totals	33 5 27 13

Oxy 200 000 000-2
 Caltech 101 030 000-5
 E—Stallkamp, MacKenzie 2, SO—Gray 3, Sturdevant 4, Hall 4, BB—Gray 4, Sturdevant 8, Hall 1, Loser—Sturdevant, WP—Sturdevant, SB—Snider, Baker, Lazzarini, HR—Harper, SH—Gray, DP—Manoogian, MacKenzie—Manoogian.
 La Verne 512 000 001-9 9 4
 Caltech 500 050 00x-10 16 3
 Tagg, Kenberry, White and Baum; Gray, Daily and Smith.

GOLFERS LOSE

(Continued from Page 3)

Watch Revay

In this writers' estimation, the man to watch for top individual honors is our own Ed Revay. Ed has been by far the most consistent golfer in the conference and if anyone is giving even money that he won't win the conference, be sure and take their money.

Here is the box score for the Pomona match:

Revay (T) def. Ortleib (P), 3-0; Wheeler (P) def. Sims (T), 3-0; Wilcox (P) def. Pardee (T), 3-0; Henzi (P) def. Bennett (T), 2½-½; Lingenfelter (P) def. Moffat (T), 2½-½, and Cole (P) def. Holmes (T), 2-1.

CAMPUS SECRETARIES

(Continued from Page 2)

(alias Judy of 103 T) met her husband whilst chaperoning a Caltech-Pomona exchange. It's like this—it was a mixer (plug) and he happened to pick up her left shoe.

"I think Techmen are wonderful!"

It's been her personal experience that Caltech men make good husbands. She also thinks that their interests are wide.

She thinks that students are always running themselves into the ground, calling themselves grinds and such.

Since Judy knows a lot about the financing of Caltech, she is in a position to say that the student body doesn't always appreciate Caltech, its faculty and its facilities.

Miriam

Miriam Coyle in the athletic office also thinks that Tech men make good husbands (because they are of a "more practical mind").

Before she came to Caltech, she had the general impression that we were all bookworms with slide-rules sticking out of our hip pockets. Now, Miriam thinks the Caltech student body is "one of the grandest and most democratic I know of."

Of course, Miriam has her of-

WHO DEALT THIS MESS

(Continued from Page 2)

spade which is taken by South. Now declarer leads out his heart jack, permitting West to take his extra trump trick. Whatever West now leads, South will win the rest of the tricks, thereby making four spades.

Adequate defense would have forced South to lose one club, two diamonds, one heart, and one spade. This could have been accomplished by:

- 1—Not underleading the club king;
- 2—Covering the queen of diamonds with the king;
- 3—Not leading a suit that dummy was void in;
- 4—Leading trump when no other lead was safe.

Tournament

On Thursday, May 25, an interesting intercollegiate pairs tournament will be held at the Elks Temple in Los Angeles. Those interested see John Rogers in Fleming.

fine gripes, too. "The student should give more support to sports," says she.

Well, there you have it. So that's what people think of us. Here's hoping more people "on the outside" will take a favorable view of the personalities of Techmen. Amen.

*Ed. Note: little known? The opinions expressed herein are those of the writer, and not necessarily those of the Tech.

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APARTMENT to sublet for the summer at the Caltech Housing Project. Completely furnished. Will be vacant from early June to late September. Low rates. Contact J. H. Birman at Geology Dept. during days except Monday and Wednesday afternoons, or call DO. 7-9034 evenings.

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*By Recent National Survey