

Goal of \$2,750 Set for Consolidated Charities

The most you can give is what you should give to the ASCIT Consolidated Charities Drive, which gets under way next Monday, Nov. 13, and lasts until Friday, Nov. 17.

Since this is the only personal solicitation conducted during the year, except for the YMCA drive in the spring, it is vitally important that each student contribute a proportionately larger amount than if each agency had its own drive. The goal for this year has been set for \$2750, and in order to reach this goal many of contributions over \$5 and \$10 (and more) are needed.

Distribution of Funds

The combined campaign will raise funds for the World Student Service Fund, the March of Dimes, and the Pasadena Community Chest. Goal for the WSSF is \$1250, and \$750 each for the other organizations.

Each student and faculty member will be solicited by one of ASCIT vice-president Olly Gardner's efficient volunteer staff. The solicitor will have a pledge card on which each contributor may write the amount he is giving to each charity. Collection may be made by cash, check, or through the Institute's January bill.

DuBridge, Merten Back Drive

Dr. DuBridge in a statement issued Monday, declared

FOR THE STUDENTS:

Last year the Consolidated Charities Drive conducted for the first time by the Associated Students of the California Institute of Technology was an outstanding success. It resulted in raising over \$3200 for the World Student Service Fund, the March of Dimes, and the Pasadena Community Chest. These are most worthwhile philanthropic enterprises which deserve the support of every Caltech student. The Consolidated Charities Drive, replacing the multiple drives of previous years, deserves the generous support of everyone.

L. A. DuBRIDGE, President
California Institute of Technology

Student Body President Ulrich Merten also urged support of the drive. Said Merten:

"The Consolidated Charities Drive is the only request for aid to outside organizations made on this campus. It is our only chance to show that we at Caltech recognize the importance and necessity of the work that is performed by the March of Dimes, the Community Chest, and W.S.S.F. So let's all kick in and punch the final totals well over the goal. It is a good cause and deserves your support."

(Signed) ULRICH MERTEN

Help for Students

The WSSF is an organization financed entirely by American college and university students and faculty for the purpose of providing as many as possible of the 400,000 destitute foreign students, principally in China and Europe, with food, housing, books, and medicines. These students we help may be future world leaders, and our helping them now is good insurance against Communism and war tomorrow.

The Pasadena Community Chest provides funds for thirty-six health, welfare, and character-building agencies in the Pasadena-Altadena area.

Fight Polio

The March of Dimes is the annual funds campaign of the National Infantile Paralysis Foundation, an organization which not only provides millions of dollars for the treatment and care of polio victims, but also provides research grants to leading universities. Caltech has received a five-year \$300,000 grant from the foundation for research which it is hoped may make progress in finding the cause and cure of polio.

Let's all dig deeper in our pockets to support these organizations, and remember, when you give, give enough for a full year.



Throop—a comfy dance-spot; Fleming—Mississippi side wheel bar; Ricketts—"Let's not moon over this"; Blacker—tremendous toadstool; Dabney—"Watch out, gals; he might bite!"

CALIFORNIA TECH

California Institute of Technology

Volume LII Pasadena, California, Thursday, November 9, 1950 No. 7

SENIORS!

Any senior wishing to obtain his senior ring, the traditional mark of a Caltech graduate, should order by today from Charlie Bates in 53 Blacker any time or Duane Neverman in Throop Club at noon. Ten dollars must accompany the order.

On Loyalty Oath

DuBridge To Speak Friday

"Caltech Serves the Nation" will be the topic of Dr. DuBridge's speech at tomorrow morning's assembly at 11 in Culbertson. This will be Dr. DuBridge's first appearance at a Friday assembly this year, and his discussion will deal with loyalty trials and espionage hunts.

Debate Last Friday

Last Friday's political assembly featured a timely debate between two prominent local lawyers who represented the Democratic and Republican platforms.

Sargent for Republicans

For the Republicans the speaker was Willis Sargent, a graduate of Yale and Harvard law schools, and a naval diplomat during the recent unpleasantness.

Rogan for Democrats

The Democratic party was represented by Richard Rogan, a graduate of Yale and UCLA, and a navy liaison officer during the war. During his part of the debate he emphasized the qualifications necessary in a candidate for public office, he explained the policies behind the Warren administration and Nixon's platform.

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Clue on Libraries Given Wednesdays

On Wednesday, Nov. 15, Dr. Oliver Dunn, Associate Director of the Caltech Libraries, will give the first of three talks for undergraduates and graduate students on the use of various devices provided by libraries to identify and locate material.

The first discussion will be about book classifications and library catalogs. The second, scheduled for Wednesday, Nov. 22, will cover the subjects of periodical indexes, special indexes and abstracting journals. The third, to be given on Wednesday, Nov. 29, will be on Bibliographies.

All three talks will be given in Dabney 101, and will begin at 7:30 p.m. Although the talks are primarily for undergraduate students, any others interested are invited to attend.

Frosh Soil Sophs In Muddy Tumult

Magician to Star In Tomorrow's Dance

For the first time since 1942 and for the third time in Caltech history the freshmen won the annual frosh-soph muedeo, 5-2.

Held in Tournament Park on Tuesday, November 7, the muddy melee lasted about two hours. Although the freshmen in the Tug-of-War were disqualified because of too many men on their team, they were still able to win the tire spree (two points), horse and rider (two points) and the sack race (one point).

As a result of their seldom precedented loss, the Sophs will pay for most of the frosh-soph dance.

5-2 Newcomer Win First Since 1942

This year's annual freshmen-sophomore dance, to be held Friday evening, November 10, from 8 to 12 p.m. in Dabney Hall Lounge, will be the first one in eight years for which the sophomores are paying.

More to the sophomores' taste is the fact that the dance features professional entertainment and is a program dance.

Get Your Programs

The latter will take place for the first half of the evening, and all men are advised to fill up their program books one way or another as soon as they receive them, which should be sometime before Friday.

Wallow, Wallow

Referees Katz, Noble, Walker, Simmons, Tracy, McEwing, Larson, Cagle, Polk and Engholm in gray shirts gathered around the 2000 square foot pit to see that the rules were obeyed.

By 2:30 p.m. quite a crowd of faculty, students, and interested spectators had assembled to watch the members of the two classes wallow in thick, sandy mud.

Hyde and Magician

Remember that Dick Hyde and his Rhythm Men will provide the music, and magician Art Franke will put on a show.



Tranquil scene from the "Tire Spree"

Free Chamber Music Series Begins Sunday with Philharmonic Trio

by Bill Whitney

Caltech students and faculty members may look forward to a full, well-rounded series of chamber music concerts this year—all of them on our own campus.

First Concert Sunday

The season will begin this Sunday at 8 p.m. in Dabney Hall Lounge with a performance by the Philharmonic Trio of the Schubert E-Flat Trio, Op. 100, the Milhaud Suite for violin, clarinet and piano, Beethoven's Trio in B-Flat, Op. 11, and Mendelssohn's D Minor Trio for violin, cello and piano.

The group consists of William Kurasch, violinist; Maxine Furman, pianist, and Joseph Di Tullio, cellist. Franklyn Stokes, clarinetist, will be guest artist.

Concerts Will Not Conflict

With one exception, the concerts are to be held on Sunday evenings at 8 o'clock. The times, have in all cases been carefully set in order not to conflict with the Film Classics or the Coleman Concerts, which are also Sunday afternoon and evening affairs.

The performances will be given in the Dabney Lounge, unless the size of the audiences justifies (Continued on Page 6)

LaVerne Boyer's Orchestra To Play at ASCIT Formal

It is time once again to brush off your tux, scout the florist's shops, and make your date for the ASCIT fall formal, Saturday, Nov. 18. The Pasadena Elks Club, 400 W. Colorado, will be suitably decorated with cornstalks and other materials in keeping with the theme of Thanksgiving. LaVerne Boyer will furnish the music from nine to one.

Dress will be strictly semi-formal. For the uninitiated this means long dresses for the girls, and dark suits or tuxes for the fellows.

Boyer's Nine-Piece Band

LaVerne Boyer, who will furnish the music for the dance, is familiar to many Techmen. He has played many house functions and past ASCIT events, and played at the Pasadena Civic last weekend. A nine-piece outfit has been obtained for this dance, with Lois Burwell and Larry Straight featured as vocalists.

Bring ASCIT Cards

Facilities at the Elks Club include a 5000 square foot dance floor, a large lounge, and a bar.

THURSDAY, NOVEMBER 10
12:10 Throop Club Meeting
7:15 Board of Directors Meeting in Lower Fleming
FRIDAY, NOVEMBER 10
4:00 Frosh Football, Caltech vs. PCC
Reserves at Tech
4:00 Water Polo, Caltech vs. East L.A. J.C. at Huntington Park
8:00 Frosh-Soph Dance in Dabney Hall
SATURDAY, NOVEMBER 11
10:00 Cross Country, Oxy at Caltech
Varsity and Frosh
10:00 Soccer, UCLA at Caltech
2:15 Football, Varsity at LaVerne
TUESDAY, NOVEMBER 14
4:00 Water Polo, Varsity at Compton
WEDNESDAY, NOVEMBER 15
7:30 Orchestra Rehearsal in Culbertson

Houses, Throop Revel at IH Extravaganza

Techmen traveled through many barriers Saturday—through the space-time discontinuity to the moon—over the gangplank to the showboat—into the domain of the macrocosmos—through the tunnel of love to the carnival—and past the rolling eyes of the elephant to the circus.

Rocket Stranded on Moon

Ricketts House reports an indefinite number of men missing who are stranded on the moon after the atomic pile of rocket ship RKT'S exceeded the critical mass of three.

Their decorations included a lunar background with a luminescent earth in the lounge ceiling. A "refreshment" cave extended from the lounge into the dining room and punch was served through a stalactite.

Toadstool on the Tilt

A 25-foot mushroom supplied Blacker House with an entrance to their "bug house" equipped with macrocosmo-size spider webs, spiders, bugs and fireflies. The refreshment stand was a large leaf under a "macrocosmo" shrub in the courtyard.

Electronic Elephant

After the dance Dabney men raided the peanut horde in the mechanical monstrosity they had created. Awed by their monster, Dabney men doted on the development of its blood-shot eyes that spun about, and the contortions that its trunk went through as Techmen walked up to the titanic pachyderm and tossed peanuts into its mouth.

The theme of "circus" was followed (Continued on Page 6)

Theory of Games, War Will Be Topic Of Friday Lecture

"The Theory of Games" will be the subject of tomorrow evening's demonstration lecture, Dr. Bohnenblust, head of the Mathematics Division, will be the guest lecturer. In planning the Inchon landing in Korea, the military high command used the theory.

"The Northern Lights" was the topic of last week's Friday evening demonstration lecture. Dr. Sidney Chapman, Sedlieian professor of natural philosophy at Oxford University, was the guest lecturer at this meeting, which is part of a series presented by the Institute.

The first part of Dr. Chapman's lecture was devoted to a description of the aurora and its occurrences, in which he used slides and colored pictures to advantage. One of the interesting facts he revealed is that lines of equal occurrence of the aurora form concentric circles whose center lies very close to the magnetic pole.

Dr. Chapman later discussed some of the theories of the origin of the Northern Lights. He seemed to think that the most plausible is that the aurora is caused by some sort of changed particles from the sun.

Opera Review

By George Abell

The San Francisco Opera Company opened its annual two-week season in Los Angeles a week ago Tuesday evening at Shrine Auditorium with a performance of Umberto Giordano's rarely heard **Andrea Chenier**. The revival of this work (the last performance in this city was twelve years ago) was a welcome treat to opera-goers.

Andrea Chenier

The setting for the drama is Paris at the time of the French Revolution. The story is based on the love affair between Andrea Chenier, a young poet and French patriot and Madeleine, the beautiful daughter of a wealthy countess.

When, in the course of events, Chenier is captured by the Revolutionists and sentenced to the Guillotine, Madeleine manages to have her own name placed on the execution list, so that she might join her lover in death.

Plot Dramatic

Despite its typical triteness, the plot is a dramatic one, and the music suits it well. As in most post-Verdi operas the role of the orchestra here with respect to the singers is of considerable importance, although in this respect Giordano does not go so far as Wagner in his music dramas; here the voice is still the dominant mode of expression.

For all its dramatic atmosphere the work abounds with lyrical melodic passages. An introduction to "Marseillaise" and other

interdispersed war cries of the revolution also add to the effectiveness.

Excellent Performance

This opening night performance of the San Francisco Opera Company was a most excellent one, and was full of pleasant surprises. The new young tenor, Mario del Manaco, as Chenier, showed himself to have rich, dramatic voice with a magnificent high register. He is beyond question one of the finest Italian tenors on the operatic stage today.

The juicy baritone role of the revolutionist, Gerard, was taken by Robert Weede, hitherto heard only in relatively minor roles. His success was well applauded by the audience, particularly after his outstanding rendition of Gerard's monologue in the Tribunal Chamber.

Lucia Albanese, who played Madeleine, is not the vocalist she was in years back, but nevertheless proved adequate for the role. The cast also included the new Chinese baritone, Yi-Kwei Sze. The orchestra, conducted by Fausto Cleva, was in top shape.

Tristan und Isolde

Among the Wagner Music Dramas, **Tristan und Isolde**, has long been a perennial favorite. This tradition is certainly kept in force by performances such as the one rendered the work by the San Francisco Opera Company last Thursday evening.

The magnificence of Thursday's performance of **Tristan** has been overshadowed in Los Angeles recently only by the fabulously great one by the same

company last season.

Flagstad Thrilling

The incredible voice of the Norwegian soprano, Kirsten Flagstad, after it had had an opportunity to warm up in the first scenes, was as fine as ever.

Doubtless, Flagstad's singing is not quite so pure and lyrical as it was in the thirties, but if her voice has grown heavier as it has matured, it has also grown richer and more vibrant. She sings with unbelievable ease and control, and with amazing volume.

Flagstad's *Isolde* is, perhaps, the greatest the world will ever hear; certainly it is an unforgettable thrill.

Ramon Vinay is reported to be on his way up. Be that as it may, he has not yet reached the point where he can do full justice to the roll of *Tristan*. His rendition Thursday was a far cry from those of the early Melchior, or of Svanholm. Nevertheless, he did not do poorly, and his inadequacy did not detract appreciably from the performance.

Bjoerling Makes L.A. Debut

The baritone, Sigurd Bjoerling (no relation to Jussi) making his Los Angeles debut in the role of Kurvenal, displayed an excellent voice, and is definitely of first caliber. Herta Glaz, already familiar in the part of Brangaena, was quite adequate. Dezzo Ernster, as King Mark, proved too rumbly and wobbly a bass for this listener's taste.

Jonel Perlea, also in his local debut, conducted a first rate orchestra in an admirable fashion

(Continued on Page 4)

ON THE RECORD

By Bill Whitney

A great variety of concerts is scheduled during the next two weeks. At least two of the performances are within easy reach of Caltech students who find transportation a problem.

The Los Angeles Philharmonic Orchestra will make its first Pasadena appearance of the current season tomorrow night at the Civic Auditorium, in an orchestral program. Then the opening concert of the Musical series will be given in Dabney Lounge at 8:00 p.m. Sunday evening by the Philharmonic Trio, in a program of Schubert, Milhaud, Beethoven and Mendelssohn.

Tuesday, Mrs. L. E. Behmyer will present Maryla Jonas, outstanding Polish pianist, well known for her Chopin interpretations. The concert will begin at 8:30 in Philharmonic Auditorium, Los Angeles.

Bach Festivals

Next week seems to be Bach Festival Week. The Pomona College Bach-Schweitzer music festival is scheduled for November 14, 17, and 19. Then beginning Friday, November 17, the First Congregational Church of Los Angeles will commence what has become an excellent annual presentation of selected works of J. S. Bach, concluding on Sunday night with the great *B Minor Mass*. There is no ad-

(Continued on Page 4)

CIT Orchestra Plays Classics

By Chuck Benjamin

"Who killed the cat?" "Leave that poor dog alone!" "Can't somebody stop that yowling?"

Such comments are familiar from evening strollers who happen to pass by Culbertson on Wednesday evenings between 7:30 and 9, when the Caltech orchestra holds its weekly rehearsals.

New Director

Under the leadership of William A. Kline, their new conductor, Caltech instrumentalists sight-read and work up orchestral numbers for their own enjoyment and performances later in the school year.

Already this year they are working on Beethoven's First, Mozart's Prague (No. 38), a suite from "Dardanus" by Rameau, dances from "The Bartered Bride" by Smetana, Dvorak's Slavonic Dance No. 8, and other works of professional caliber.

Interesting Instrumentation

Mr. Kline, a violinist in his spare time, is presently an instructor in instrumental music and music theory at the East Los

Angeles junior college. Although he did not find a full symphony orchestra when he came here, he has this year's orchestra play-instruments at present consists of about eight violins, a French horn, a bassoon, two flutes, a ing symphonic literature even with their traditional awkward instrumentation, and members claim that it doesn't sound half bad.

The unusual combination of trumpet, and two clarinets. This agglomeration of sounds is what prompts such comments as those above. It also is the primary reason why Mr. Kline and all members of the orchestra are presently on a drive to increase membership.

All Officers Violinists

With Doug Calley, violinist, as president, and Dave Elliott, another violinist, as librarian of the symphonic stacks, the Caltech orchestra is one of the few co-educational extra-curricular activities at Caltech, with several secretaries on campus as regular members.

Friday Assembly Planned

Last year's big event for the orchestra was the performance of "Spooks in the Basement," a modernistic take-off on Handel's "Messiah" a la Caltech by John Campbell, Caltech electrical engineering instructor. Although

(Continued on Page 6)

Jazz

By Art Cuse

In keeping with the policy of this paper of giving "hep" patrons the word on leading attractions in modern music, there are several items which we could call to attention. One is the Oasis Club, on Figueroa near S.C., which is currently featuring some of the best jazz artists around town. Cab Calloway and Billie Holiday were there last month, while Artie Shaw and Louis Armstrong are scheduled for November. Prices are high, but considering the fact that the management pays about \$2000 per week, plus fifty percent of

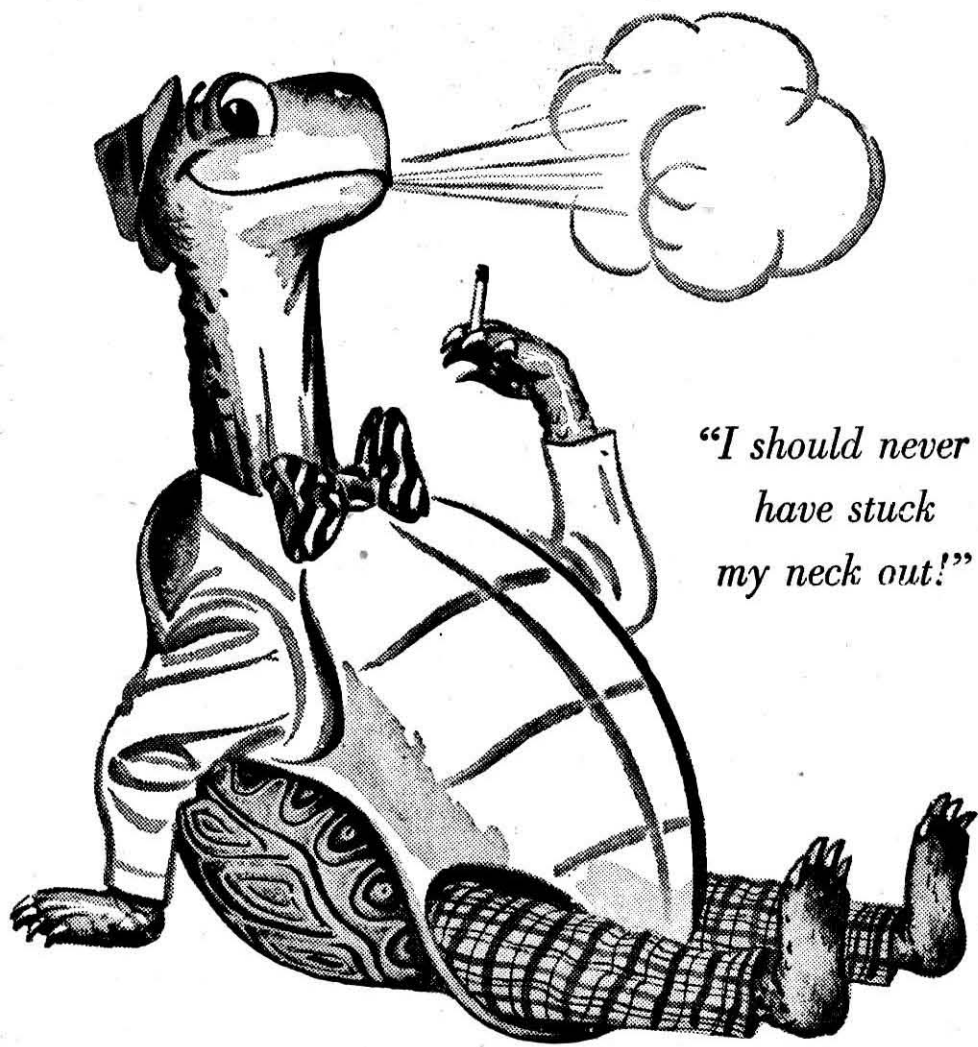
the take, to the talent, they are not unreasonable.

Jazz at the Philharmonic

Another highlight which might be mentioned is Norman Granz's tenth national tour of Jazz at the Philharmonic on November 13 at the Shrine Auditorium. This concert features Ella Fitzgerald, Buddy Rick, Flip Phillips, Lester Young, Coleman Hawkins, Bill Harris, Harry Edison, Ray Brown, Hank Jones, and also Oscar Peterson, an outstanding young pianist from Montreal, Canada. Peterson has been acclaimed by all music critics as the most promising young pianist since Waller and Wilson. We look forward to his performance.

Campus Interviews on Cigarette Tests

Number 6...THE TURTLE



"I should never have stuck my neck out!"

They had our slow-moving brother moving at too fast

a pace with those quick-trick cigarette tests! A fast puff... a swift sniff...

a quick inhale... a rapid exhale. Terrapin's head was spinning -

didn't know if he was coming or going! But he slowed down to his own

speed - decided there was no need to rush. After all, he figured,

how could anyone possibly prove cigarette mildness so fast?

And he was right, too! That's why we suggest:

The sensible test... the 30-Day Camel Mildness Test, which simply asks you to try Camels as your steady smoke -

on a pack after pack, day after day basis. No snap

judgments needed. After you've enjoyed Camels - and only

Camels - for 30 days in your "T-Zone" (T for Throat,

T for Taste) we believe you'll know why...



More People Smoke Camels than any other cigarette!

JEWELER

American and Swiss Watches

Watch, Clock and Jewelry Repairing

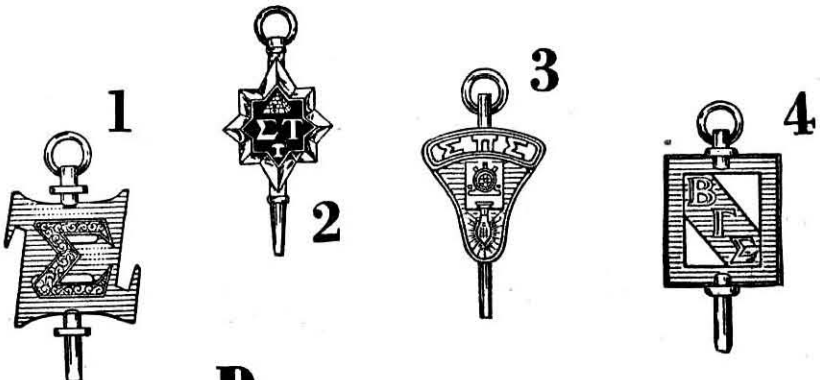
Selection of Jewelry

BINLEY'S

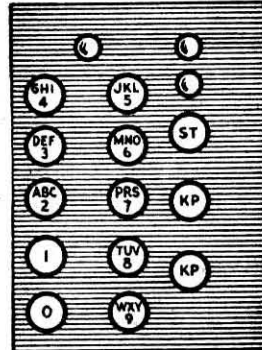
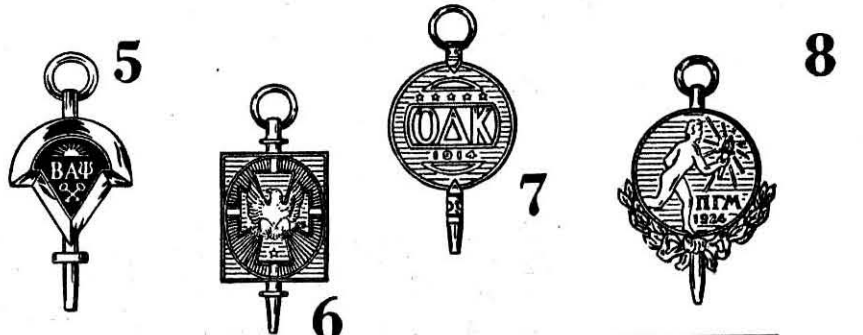
JEWELRY STORE

885 E. Colorado St.

SY. 3-1853



Recognize these keys?



Eight are the famous keys of national honor societies.

No. 9 is an important newcomer. It's the Bell System's new keyset for the direct dialing of Long Distance telephone calls. And, though not yet "national," it already has "chapters" in more than 900 cities and towns.

By pressing these keys, your operator can dial calls straight through to telephones in many distant places. Calls go through faster, more accurately.

Automatic dialing of Long Distance calls by operators, a development of the Bell Telephone Laboratories, is being extended steadily. This new method of putting through Long Distance calls is especially important right now, when the nation is counting on telephone service to help speed the job of defense.

BELL TELEPHONE SYSTEM



Keys shown: 1. Sigma Xi (Scientific Research), 2. Sigma Tau (Engineering), 3. Sigma Pi Sigma (Physics), 4. Beta Gamma Sigma (Commerce), 5. Beta Alpha Psi (Accounting), 6. Blue Key (Service), 7. Omicron Delta Kappa (Men's Leadership), 8. Pi Gamma Mu (Social Science).

Rogers Wins SAE Will Show Debate Award Gas Test Cars

John Rogers was awarded a certificate of special distinction for his work in impromptu speaking at the Speech Events tournament held last Friday and Saturday at Santa Barbara.

Three other Tech men, Roger Baier, Ron Kramer and Jim Pinkerton, also made the trip, participating in extempore speaking and discussion.

Debaters are now getting set for the Western States tournament to be held at Pepperdine College, Nov. 20, 21 and 22. Practice debates are being held every Wednesday at 4 p.m. in Dabney 208.

Anyone Can Join

Any Caltech student wishing to do so may still get into the forensics program by contacting Dr. McCrery in Dabney 309.

OPERA REVIEW

(Continued from Page 3)

giving a particularly exciting and moving reading of the work.

Parsifal

Last Sunday afternoon, between the hours of one and six p.m. The San Francisco Opera Company performed for the first time in Los Angeles in about twenty-five years the last, and to many the greatest opera of Richard Wagner.

Parsifal, a sacred festival music-drama in three acts, deals with one of the legends of the Holy Grail. The spear that pierced the side of Christ, while he was on the cross, and the Grail, the cup that caught the blood were entrusted to the care of an order of holy knights at the Temple of Montsalvat, in Spain. The spear, according to the legend, had fallen into the hands of the sorcerer, Klingsor. Wagner's music-drama tells of the experiences of Parsifal, a "guileless fool," made wise through pity, who redeems the spear for the brotherhood, by resisting seduction by the extraordinarily beautiful Kundry, Kling-

ON THE RECORD

(Continued from Page 3)

mission charge, and the performances are generally first-rate.

Intimate Opera

The Intimate Opera Company of London will appear twice during the week—on Saturday evening, November 18, at 8:30 at the Wilshire Ebell Theatre, and the following Sunday at 3:30 P.M. at the Pasadena Playhouse as one of the Coleman Concerts.

On Thursday, November 16, the Los Angeles Philharmonic season gets underway with Kirsten Flagstad as soloist. The program will include Beethoven's Prometheus Overture and the Symphony No. 7; Mme. Flagstad will sing "Ah Perfido," also by Beethoven, and the Immolation from "Die Gotterdammerung," by Wagner.

SAE Will Show Gas Test Cars

Three DuPont Company gasoline road-testing cars will be shown at Tech Thursday, November 16, in a demonstration sponsored by the SAE. They will take students for rides demonstrating the methods of testing and rating different fuels. See John Nobles, Ricketts 42, for afternoon riding appointments.

These cars are specially equipped at a cost of about \$10,000 each with multiple dash-selected fuel tanks, six of which are used for reference fuels of octane rating 80 to 92.5, and four for test fuels. Other devices added to the 1950 model cars include a variable spark advance, tachometer, manifold vacuum and exhaust pressure gauges, and engine temperature gauges.

sor's prize bait to trap those knights of the Montsalvat, who chance to wander to his magic gardens.

Flagstad Again Superb

Kundry, one of the shortest, but also most difficult of Wagner's soprano roles, was portrayed again by Kirsten Flagstad. Despite Madame Flagstad's physical shortcomings as a convincing seductress, her performance was nothing short of fabulous. Suffice it to say that the part was handled as only the incomparable Flagstad can handle it.

Charles Kullman, as the naive Parsifal surprised at least this listener with an admirable performance. His voice is somewhat heavier than of old, and sufficiently rich and powerful to be well suited to Wagnerian roles. Dezsö Ernster appeared again, this time as Gurnemanz, an elderly knight of the grail. Ernster turned out to be far more acceptable in this part than as King Mark in Tristan last Thursday. By the time the third act had rolled around he had weakened some, and his singing of the Good Friday Music left a little to be desired, but as a whole his rendition of the part was quite satisfactory.

Sigurd Bjoerling appeared as Amfortas, keeper of the Holy Grail, and displayed excellent vocal talents. Other members of a fine cast included Disire Ligeti as Titurel, Ralph Herbert as the evil Klingsor, and many others as knights, esquires, flower maidens, etc.

Effective Settings

A brief mention of the impressive sets is in order. The interior of the Temple Hall at Montsalvat was very grand indeed. Probably most effective was the transformation, before the eyes

CAMPUS BREWINS

(Continued from Page 2)

but the Beak didn't think he was married.

There was, however, sinister scheming in the vicinity of the "circus." The design was to reverse the prey's plate and confine him and Vassar graduate to the room, should they once enter. The deed accomplished, the Frosh awaited the result. The room was entered; one hour passed, then another. At long last, the transom was opened. Two chubby hands appeared, followed by J. C. Noll's failing voice—"Let me out."

Half-Cracked Trio

Halftime activities revealed a semi-crazed trio performing for their dates and anyone else within earshot. The Beak can but grapple with his proboscis. A frosh unicyclist was also scheduled to appear, but untoward influences destroyed his equilibrium. We cannot but conjecture wildly. All in all, a good time was had. Mr. and Mrs. Connelly were beheld by the Beak, as also were Covey, Gaines, Neverman, Pfeiffer, Sokol, and Smythe.

of the audience of Klingsor's desolate and horrifying castle courtyard into the beautiful and colorful enchanted garden, where the seduction scene transpires, and the subsequent annihilation of the garden when Parsifal renounces the evil magician. In this production, however, owing to the lack of facilities available at Wagner's theater at Bayreuth, the change of scenes in the first and last acts was effected by dropping the curtain for a few moments, rather than utilizing moving scenery as the composer had originally intended.

Seductive Chorus

In Parsifal considerable use is made of choruses. In the second act, the sexy flower girls flutter about our hero seductively singing "Come! Come! Handsome stripling." In the Temple scenes the knights, youths, and a boys' chorus blend together in magnificent harmony.

In this last completed work of Wagner, his theories of dramatic composition have reached their logical conclusion. In the place of set musical forms, this colossal tone structure is developed almost entirely from the many leading motives which characterize individual personages, incidents, and ideas in the drama, all of which are interwoven together with the extreme mastery and skill which the mature genius had at his demand.

This performance of Wagner's Parsifal, under the direction of Jonel Perlea, was, quite aside from any theological considerations, deeply moving and inspiring.

Ricketts Wins Accolade

The Beak is compelled to award the week's accolade (no harm meant!) to Ricketts whose decorations were definitely tops. The lunar atmosphere, except for temperature which was more reminiscent of Wong's steam laundry, was very realistic and evidence of work and toil abundant.

Notorieties present included Bailly (with Schimpssie), Brown (with a last minute and very ravishing date) Dyer, Engholm, Gardner, Halverson, Noble, McCormick, Polk and Rodriguez. That is all. Enslow finally broke down and took out a nurse from the Huntington.

Smyth bade everyone goodbye with his girl in one hand, and an overnight satchel in th' other.

In Blacker Also

In Blacker also, bacchanalia were at their zenith. Hero of

WHO DEALT THIS MESS?

(Continued from Page 2)

can now see that the combined hands will produce four club tricks (five if the finesse works), two diamonds, two hearts, and two spades for a total of ten tricks. If, however, South takes the club finesse immediately and loses, then a spade will be returned, knocking out South's last stopper in that suit. And since declarer can take only eight tricks without touching the diamond suit, the diamond ace will be a sure entry for the defense; and if West gets the lead, he will run off all his spades and defeat the contract before South has a chance to lead his two good diamonds.

But if South sets up his diamond tricks before leading clubs, he may let the second round of spades go by, and take the third with his ace. Now only East can get the lead, since the king of clubs in West's hand could not be a winner, and East will either have no spades with which to enter West's hand or will have only one.

Can't Set Contract

In either case, the contract cannot be set. South's lead to the second trick, therefore, is the king of diamonds. He then holds up his ace until the third spade lead, after which he may develop his club suit in perfect safety.

Note that if East has both the king of clubs and the ace of diamonds, the contract can be made by simply holding up the ace on the second spade lead. But South does not know who holds the ace, and he must make allowance for its being in West's hand.

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CIT Bowls Sunday In College League

Sunday, Nov. 12 at the Pasadena Bowling Courts at 6:30 p.m. Caltech will take part in its first intercollegiate bowling match of the year.

A league composed of USC, UCLA, LACC, LASC, SMCC, Woodbury, and CIT has been formed to provide regular intercollegiate competition. Loyola, Pepperdine, and John Muir may also join the conference.

Caltech students of any status, graduate or undergraduate, may participate on the Tech team Duane Neverman of Throop Club is organizing the team, and all interested bowlers should contact him as soon as possible.

He can generally be found in Throop Club at noon. The second practice will be tomorrow at 2:30 at the Pasadena Bowling Courts.

Slodowski, Sunderlin, Waid, and Wallace, about whom we will have to say more next week.

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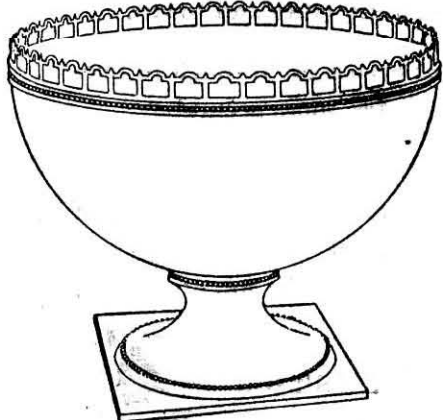
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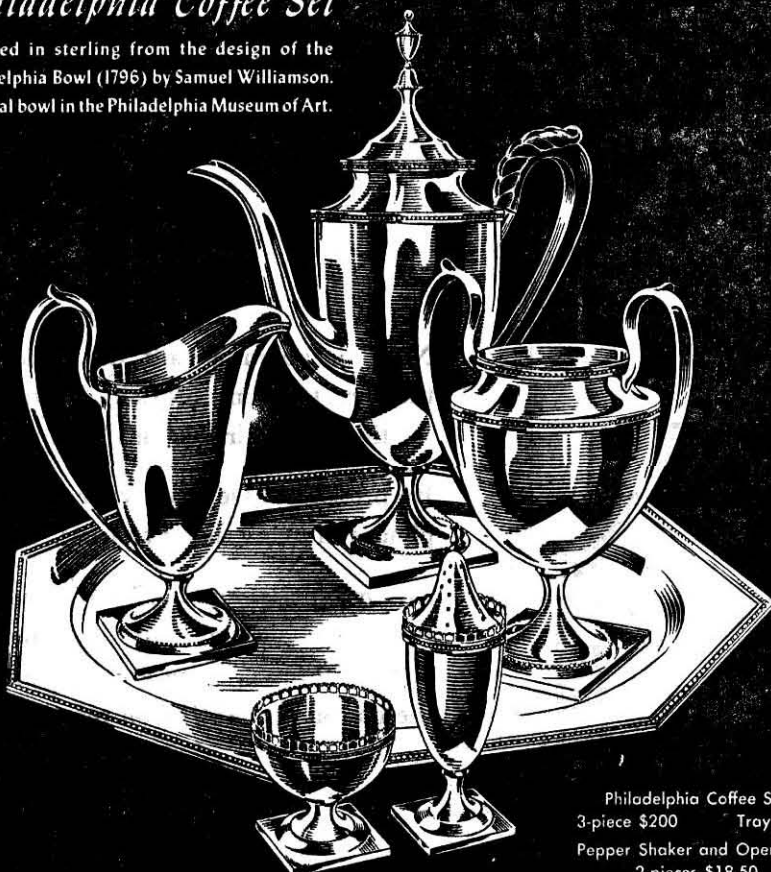


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Thacher Topped 5-0 in Soccer; UCLA Saturday

This Saturday the Beaver booters will again try their luck against the Bruin eleven. The game will be played in Tournament Park at 10 o'clock Saturday morning, and the members of the team would certainly feel better about it if there were an audience to watch them down the invaders from Westwood.

CALTECH LAVERNE FOOTBALL GAME
AT BONITA HIGH SCHOOL
 On Bonita Avenue Midway Between San Dimas and LaVerne.
 (This is the same place as the game last year).

Second Win
 Last Saturday the team played Thacher for the second time, again beating them quite decisively. The final score ended up 5 to 0 for the Beavers. The Tech attack was very slow in getting started and very few shots at the opposing goal were even attempted in the first period. The forward line appeared rather sluggish. However, the second period saw a rather spirited line make many tries at the goal, but only two struck pay dirt.

During the second half, forwards Gutierrez and Bhanj-Deo sharpened their sights and pushed through the remaining three tallies. Much credit is due to left wing Wood, who set up at least three of the goals with his expert feeding of the ball into the center of the field, and thus scoring position. Ernie Weber also played a nice game, very often stopping the Thacher offense before it could get started.

Better Defense
 The defensive play of the team showed marked improvement, also. There was a great deal more teamwork between Welch, Noble and Martin. Thacher was in scoring position very few times and the team's defensive players deserve a lot of credit.

BUTTIN' IN

—by Butler

After the fans filed out of the nation's football stadia Saturday afternoon, the prognosticators reached for their aspirin and tried to figure out what happened. Mighty SMU toppled past Yale, but the saddest of all, Cal over the Huskies! Many a tear was shed when Howie Odell's eleven failed from the 2, then was stopped again on the 9. Washington, the surprise team in the PCC this year, looked Rose Bowl-bound if the Bear could be stopped, but again Pappy Waldorf has developed a strong team by digging into the Ramblers and coming up with much-needed talent. Unless the Bruins can maintain their giant-killing ways, the Bears are a cinch to represent the Pacific Coast in the January 1st classic.

Splashes
 The water polo squad bounced back from a practice-game loss to Oxy by skimming the Bengals, 5-4, Monday afternoon.

When you consider that the first game sported a make-shift official and a grandfather's clock for a timer, this last game deserves to be the one that counts in the record book.

More Fans
 While the Oxy win was most

Beaver Sports

Dabney Leads in IH Basketball

The beginning of the inter-house basketball season saw four games played last week with Dabney taking the lead with two wins, followed by Throop and Fleming with a win and a loss, and Blacker and Ricketts, a loss apiece.

Throop-Fleming
 The Throop-Fleming game resulted in a 27-23 score in favor of Throop with Fred Anson high scorer for Throop with 13 points.

Dabney downed Ricketts in the second game of the week by a 36-21 margin. High scorers for the winners were Leon Michaelson with 10, Bill Kemmel with 9, and Bob Packwood with 8. Larry Dyer made 8 for Ricketts.

Close
 Fleming nosed out Blacker, 26-25, in the closest game of the week. Bob Waid's 8 points was high for Fleming while Sandy Sweet hit for 15 for Blacker.

The final game of the week saw Dabney trounce Throop, 48-27. Bob Packwood and Leon Michaelson sank 16 and 15 points respectively.

Cross Country Takes Poets

Last Saturday the Caltech cross-country team took on its first conference opponent this year and won in a manner which gave team members some hope of repeating the 1948 championship. Run in the sweltering heat, the Beavers ran the Poets into the ground by 18-43 (low score wins).

Whittier placed only one man in the first six and didn't finish too strong after that. Techman Mason took first over the three-mile grind. Bill Pilkington took a good second, while Bob Cobb, Ray Bowerman and Bill Blodgett finished out the scoring. The winning time was 17:18.8.

Oxy
 This Saturday the Engineers face its first real test in Oxy. Sensational Johnny Barnes is again the big gun, while Jones and Monroe offer strong competition. The meet gets underway at 10 a.m. in Tournament Park.

(Continued on Page 6)

PIGSKIN PROGNOSTICATIONS				
GAME	ATHLETIC DEPARTMENT		SPORTS STAFF	
	Coach LaBrucherie	Hal Musseliman	Joese Wolf	Thorne Butler
UCLA California	California 7	California 7	California 6	California 12
USF Santa Clara	USF 7	USF 14	Santa Clara 7	USF 1
Arkansas Rice	Arkansas 7	Rice 13	Rice 14	Rice 6
LSU Vanderbilt	Vanderbilt 7	Vanderbilt 7	Vanderbilt 7	Vanderbilt 3
Wyoming Brigham Young	Wyoming 20	Wyoming 14	Wyoming 14	Wyoming 25

Oxy Finally Falls In Waterpolo 5-4

Ogilvie's Stops Stop Tigers Cold; UCLA-JV and Muir Beaten Badly

There was great joy in the hearts of the Beaver water polo team last Monday: they had defeated Oxy for the first time in several years by the score of 5-4. This was the latest in a series of games between the two schools which had all ended in the opponents' favor by close scores.

Of all the great performances put on that afternoon by the various Engineer players, that of Goalie Morg Ogilvie was the greatest. Time and again, Morg stopped shots that looked like sure goals, and would have been with a less experienced man in the cage.

Frosh Sports Roundup

by Nick Nicholson

This week's Frosh sports calendar looks pretty bare, with only the Oxy cross-country meet at 10 a.m. Saturday giving any action. Tech's team is still untried in this sport, so there's no telling what will happen. Last week's meet against Whittier Frosh was forfeited when one member of the team didn't show up.

Basketball
 Basketball practice started this week, with the Frosh team expected to show up quite well. There'll be plenty of skyscrapers trying out, and the team will have a lot of practice before their first game.

Close Game
 The game was a tight one all the way, with the Tigers taking an early 2-point lead. Caltech came from behind in the third quarter, with goals by Armstrong and Libbey, to lead 3-2. After that the Beavers were never headed.

Jerry McClusky of Oxy was high-point man for the game with three goals, while Libbey had two. The excellent, close guarding by both teams kept the score low. Von Herzen and Armstrong repeatedly blocked shots in the air that were headed for the goal.

17-4 Slaughter
 This is the second water polo conference victory for the Beavers, and was probably the top competition we will meet in our division. The first conference win was over UCLA-JV and Frosh last Friday at PCC. The final score of that slaughter was 17-4. Everyone on the Tech team got to play. Libbey led the scoring with 8 points. Earlier in the week the Engineers also took a game-length scrimmage from Muir, 16-4.

Tomorrow at the PCC pool, ELAJC will be our guests in another conference game. See you there!

At A Glance

Cross Country
 Caltech, 18; Whittier, 48.
Water Polo
 Caltech, 5; Oxy, 4.
 Caltech, 16; Muir, 4.
 Caltech, 17; UCLA JV, 4.
 Caltech, 12; Cal Poly, 1.
Soccer
 Caltech, 5; Thacher, 0.

IH TROPHY STANDINGS

Blacker	29½
Throop	25
Fleming	23½
Ricketts	22½
Dabney	16½

Scoring: 1 2 3 4

Caltech	0	1	2	2-5
Oxy	1	1	0	2-4

Shakespearean drama leaves me cold; And Goldsmith's mighty slow; They may have held the public then— Now Luckies steal the show!

By Joan Schroeder
 Texas State College for Women

I took a course in Chemistry; I tried a new reaction; I lit a Lucky with a match And got real satisfaction!

By Ronnie Friedman
 Columbia University

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By Morton Greenberg
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Fellowship to Discuss Parables

The Caltech Christian Fellowship is continuing its study of Mark's Gospel in the 4th chapter. Everyone interested is invited to see what Christ taught and did. The studies will be held on Tuesday and Thursday at 12:30 p.m. in 210 Dabney.

BUTTIN' IN

(Continued from Page 5) gratifying, it seems that the Splashers have been knocking off opponent after opponent with some very decisive scores. With the water polo team putting on such a good show, some of you men should drop up to the PCC pool for a look-see. It is really amazing how clever the boys are at handling the ball while in six feet or more of water. There is more to the game than the popular notion that the object is to drown the opponent.

LaVerne
The Beaver eleven should have their first win against the LaVerne Leopards. Pomona did not have too much trouble with LaVerne and the Sagehens are having just as many problems as many problems as Tech when it comes to entering the win column. Figuring all the angles, I cannot see how the Beavers can lose, but this year of upsets has been awfully rough on the "I got the straight poop" boys. So there is nothing left but to keep the fingers crossed come Saturday afternoon.

CIT ORCHESTRA

(Continued from Page 3) **More Members, Please**
So with high hopes for a well-rounded musical year the Caltech orchestra again expresses interest in all students and secretaries who have forsaken their musical past (particularly other than violinists) and invite them to their weekly cat-killing and tail-pulling concerts-in-the-raw every Wednesday evening. Some outsiders have requested a re-performance of this work, the musicians have set a definite "no" as an answer in their interests of constantly working on new music.

Mr. Kline has started to make plans for a Friday morning assembly concert sometime next term as the orchestra's first appearance of the school year. Other performances will probably include a concert for the Caltech Service League, and perhaps an evening concert.

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HOUSES, THROOP REVEL

(Continued from Page 1) lowed up with a cotton candy vendor who endeavored to supply the sticky sweet to Tech-men.

Showboat Sharps
Showboat was the theme in Fleming and the pilot's house really rang the bell with the dancers. The decorations were realistic from the Mississippi side wheel bar and mirror to the foghorn in the pilot house.

The authenticity of the bar and mirror was guaranteed by the variety of gum stuck under the bar. The gambling sharps failed to supply the funds for the dance and Fleming is in the red after the affair.

Tunnel of Love
Throop Club utilized their court for the concessions that not every carnival has. The bawdy house was especially popular with the men but a lot of dates became quiet after their views through the peek-holes.

The tunnel of love, penny tossing and dart throwing were popular but Marryin' Sam was the most profitable enterprise.

DuBRIDGE TO SPEAK

(Continued from Page 1) cations of James Roosevelt for Governor and Helen Gahagan Douglas for Senator in last Tuesday's election. As part of the Democratic platform for California, he stressed party policies supporting improved educational facilities and the protection of small business.

At the end of the debate, each speaker came out for an additional five minutes for rebuttal and questions from the audience.

FROSH SOIL SOPHS

(Continued from Page 1) eligible, a hundred feet of stout rope was brought out and the mudeo began with the Tug-of-War.

Neither the frosh, represented by Phil Ulrey, nor the sophs, represented by Jim LaTourrette, showed any superior strength at first, but finally the freshmen hauled the opposing twenty sophomores across the pit to the other side.

However, three events later the victory was disqualified and the point given to the sophs, because the frosh supposedly had had twenty-five men.

Sack Time
Regrouping their forces, two ten-men teams next lined up for the relay sack race. The freshmen just hopped away with this event, easily adding another point to their score. The victorious frosh team in this event consisted of H. Palmer, J. T. Billings, Phil Miller, Gary Boyd, Keith Campbell, John Weisner, John Aimes, P. W. Ulrey, Simon Tammy, and Norm Ellett.

Soph's Sole Win
However, the underdog sophomores ran off with the wheelbarrow race leaving the frosh spluttering, swimming, and stumbling futilely in the oozing mud. This triumph netted the second yearlings one point, but they never quite regained the initiative again. Part of the twenty-man winning team in this event consisted of John Winslow, Bob Stanton, Bill Gardner, Francis Scott, Bill Peterson, Bill Conner,

Classified Ads
LOST—Parker 51 pen with dark blue body and gold-plated cap. Lost 10:45 to 10:55 a.m. Monday, November 6, on way from Robinson Hall to Old Dorm. H. T. Yang, Room 10, Old Dorm.

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Horse and Rider
By all indications the sophomores should have captured the horse and rider crown because they had the pit cleared of all opposition except for one pair against their three. Nevertheless, freshmen Al Pine and Phil Miller took all three of them down to bring two more points to the underclassmen's score. The last valiant efforts of Bob Stanton and John Forgy were not enough to down the two plucky frosh.

Tired Yet?
The mad fight for eleven tires in the center of the pit in the tire spree event lasted for six minutes, and was tied five tires apiece when the whistle blew. Since the eleventh tire was nearer the frosh end zone the judges awarded the winning points to the lowerclassmen.

Judges Lose
Sophomores, who especially intended drowning the pro-frosh referees, were foiled in some instances by joyous freshmen who helped some such as John Noble to escape their traditional muddy fate.

Polk, Engholm, Larson, Walker, and Tracy weren't quite so fortunate and received a thorough dubbing. On the other hand Bud Katz took the easy way out by leaving just after the sack race, his fate to be decided later by the Fleming sophs.

FREE CHAMBER MUSIC

(Continued from Page 1) fies the use of Culbertson Hall. Admission will be without charge, except to the special concert by the Hungarian Quartet on May 20, and the general public is welcome to attend.

The "Kreutzer"
Two weeks later, on Nov. 26, Toscha Seidel, violinist, with Robert Hunter, pianist, will play three sonatas: Mozart's B-Flat, K. 454, Beethoven's "Kreutzer," and Grieg's C Minor violin sonata.

Following Concerts
Subsequent concerts include:
1—An All-Brahms recital Dec. 10th by Sarah Compinsky, pianist; George Neikrug, cellist, and Kalman Bloch, clarinetist.
2—A performance by the Tri-Arte Trio on Jan. 14th of the Beethoven Serenade in D Major, the Mozart D Major Quartet K. 285, and the Dohnanyi Serenade in C for Violin, Viola and Cello.
3—A two-piano recital on Feb. 25th by Natalie Limonick and Leonard Stein, who will play music by Mozart, Schoenberg and Stravinsky.
4—An All-Hindemith program on March 11th by the Reher Ensemble.
5—A program of Cimarosa, Bach and Holst on April 15th by Bert Gassman, oboist; George Drexler, flutist, and Shibley Boyes, pianist.
6—The Manuel Compinsky Trio on May 6th, playing

DABNEY LEADS

(Continued from Page 5)

Tech-Whittier results:

1. Mason	T
2. Pilkington	T
3. Walmire	W
4. Cobb	T
5. Bowerman	T
6. Blodgett	T
7. Lawrence	W
8. Scott	T
9. Dickinson	T
10. Jones	W

works by Brahms, Ravel and Franck.

Hungarian Quartet to Return
Caltech personnel who attended the Musicale Series last term will be pleased to learn that the Hungarian Quartet will return again to this campus on May 20th.

One of the outstanding string ensembles on the concert stage today, the Quartet will be at Tech through the assistance of the Coolidge Foundation. Their program has not yet been announced.

Last term the Caltech Musicale, the Faculty Music Committee and the Humanities Division together sponsored a short but highly successful "Spring Music Festival," which featured chamber music performances by outstanding instrumental soloists and string ensembles from the Los Angeles area. The response to the series was sufficiently gratifying to make possible a complete schedule this year.

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