

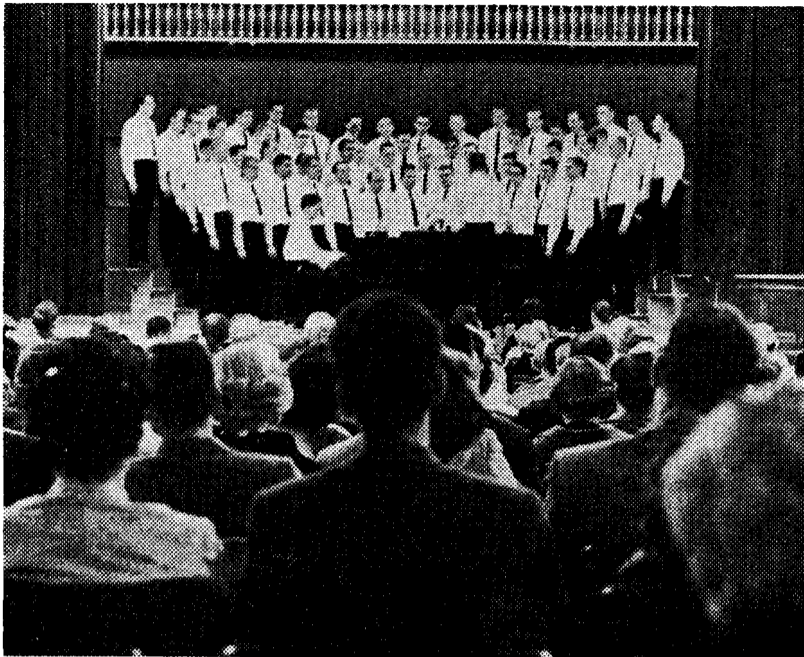
The California Tech

California Institute of Technology

Volume LIX

Pasadena, California, Thursday, April 10, 1958

Number 22



THE TECH GLEE CLUB'S CONCERT at the College of Medical Evangelists in Los Angeles last Saturday drew an audience of 200 for a performance of religious, folk, and popular numbers.

Basic Revisions Proposed By Frosh Camp Committee

A basic revision of the philosophy and organization of New Student Camp was proposed in a report submitted to the administration and the BOD last week by the Camp Committee.

The committee's report, prepared after two and a half months study, was basically approved by both Dean Foster Strong and the BOD.

Eliminate Speeches

Elimination of long, unnecessary speeches is the committee's

Morton, Perga Gunckel Score

Tom Morton, Andy Perga and Tom Gunckel garnered forensic laurels for Tech at the bi-annual Pi Kappa Delta speech tournament in Tempe, Arizona, last week.

Morton was one of four participants in the meet to receive a Superior rating in discussion and was awarded his second Pi Kap gold key for his achievement. The topic was improvement of education.

Perga and Gunckel came within one win of receiving a Superior as a debate team. Their Excellent rating placed them sixth among the 26 teams from 14 western schools. They debated right-to-work laws.

Pi Kappa Delta is a national honorary forensics fraternity.

Tech Officiates Economy Run

Sixty Techmen will be Official Observers on this year's Mobilgas Economy Run, which leaves Saturday for Galveston, Texas.

High interest in the job was evidenced by the large number who applied and took part in the break-in runs, according to Jim Workman, graduate ME student and Chief Observer.

During spring vacation some of the Tech students were employed driving cars and acting as extras for crews making publicity films. They will appear in TV films of General Petroleum and of the makers of the winning cars.

The two Observers riding in each car will keep the U.S. Auto Club records of the trip. They are responsible for seeing that the cars remain stock throughout the run. All important parts of the cars are sealed, and only an observer or USAC official may break the seals.

primary recommendation. This included talks by both faculty members and students. Dr. DuBridge's keynote and the honor system discussion are the two talks that the committee would definitely retain.

Planned, informal discussion would replace the speeches under the plan. Ten to fifteen freshmen and transfer students, together with an upperclassman and a faculty member, would form a discussion group. These discussions would be introduced by a short talk on a fairly broad subject.

Upperclassmen who will attend the camp will be chosen by the Board of Directors. "We want to make it an honor to go to camp, instead of a duty," one committeeman said. "We feel that the New Camp will give us this chance."

Staff Will Organize

The upperclass staff will handle the major portion of the camp planning and organization, including recommendation of the faculty members who should attend. Applications for this year's 24-man staff are due next Monday.

(Continued on page 5)

Y Announces Film Series

"The Devil and Daniel Webster" and "When a Man's a Prince" will inaugurate the YMCA film series for the spring term this Sunday, April 13. They will be followed by "Dirty Hands" and "Coat from Heaven" on May 4, "Anthony Adverse" and "Home Movies" on May 18 and, rounding off the series of four programs, "Mr. 880" and "The Adventures of *" on May 25.

"The Devil and Daniel Webster" is Stephen Vincent Benet's humorous story about the New England farmer who sells his soul to the devil. "Dirty Hands" is a French-made film version of the play by the leader of the existentialist school of philosophy, Jean-Paul Sartre.

"Anthony Adverse," written by Hervey Allen, is one of the greatest of the modern classic novels. It deals with the life of a man and his adjustment to the society in which he lives. The film stars Frederick March and Olivia de Havilland. "Mr. 880" is a light and delightful comedy dealing with the consternation caused the U. S. Treasury Department by the hilarious idiosyncrasy of a little old man, played by Edmund Gwenn.

Seven Apply For ExComm; Other ASCIT Posts Open

Publication Posts Also Sought

Charles Antoniak, Wally Baer, Bob Lange, Don Owings, Russ Pitzer, Dave Singmaster, and Gary Zimmerman submitted applications for appointment to the ExComm Monday night.

The Executive Committee was created last term "to recognize, investigate and discuss the long range and immediate problems of the Corporation," make recommendations to the Board of Directors, and interpret the By-Laws. It consists of the ASCIT president, vice-president, secretary, treasurer, and the two members to be appointed from the above applicants, April 14.

Bill Benisek and Marty Kaplan submitted a joint application for Big T business managers. Howard Weisberg applied for business manager of the California Tech. Keith Brown, Jerry Hansen, and the team of Dick Jones and Stan Sajdera applied for Big T editor. Those appointments will also be made April 14.

NFS Fellowships Awarded Seniors

David Chang, Joseph Fineman, William Klement, David Leeson, Charles Stone, Martial Thiebaut, and William Wagner have been awarded predoctoral fellowships by the National Science Foundation.

Five of these awardees are majoring in physics, Stone will enter mathematics, and Leeson is in EE.

Thirty-three Caltech graduate students also received fellowships.

The forty Caltech winners are among 841 winners selected from 3804 applicants from all parts of the continental United States, Alaska, Hawaii, and Puerto Rico.

Purpose Of Education Topic At Y's Seeley Conference

Students from all over the Pacific Southwest will descend on Camp Wakonda in the mountains near Malibu April 18-20, for a weekend of co-ed fellowship and an evaluation of the problems of higher education.



Engineering and Science H. Rowan Gaither will highlight Saturday's Alumni Day.

Alumni Day Set Saturday

Over 1000 Caltech alumni from all over the state will descend on the Institute this Saturday, for the 23rd annual Alumni Day, predicts Dr. Donald S. Clark.

The highlight of the day will be the evening talk by Mr. H. Rowan Gaither on "Science and the National Welfare." Gaither is Chairman of the Board for the Ford Foundation, Chairman of the Board of the Rand Corporation, and Chairman of the Security Resources Committee of Eisenhower's Science Advisory Committee.

During the morning, talks will be given by Dr. William H. Pickering, Mr. Mathew Meselson, Dr. Hunter Mead, Dr. Richard P. Feynman, Dr. Hardy Martel, Dr. Leon T. Silver, Dr. Lester Field, Dr. Frederick C. Lindvall, and Dr. J. Kent Clark. Tours of the various labs around school will be conducted during the afternoon.

Applications Due Monday

Applications for Little T editor, ASCIT Photo Division chairman, Election Committee chairman, Instructors president, and New Student Camp counselors, are due April 14.

Little T editor, Photo Division chairman, and Election Committee chairman applications go to Dave Spencer, S box, Fleming. Appointments will be considered on the basis of written applications and interviews by Spencer and the present office holder, and will be made, with BOD approval, April 21.

Little T, Photo Chiefs

The Little T editor publishes the Little T and receives the first \$400.00 profit from its publication. The Photo Division chairman must coordinate the Photo Division's efforts to give photographic coverage to student activities and supply ASCIT publications with photos. The chairman of the Election Committee, with the three other committeemen he appoints, manages ASCIT elections, records, votes, and posts results.

Instructors president applications should be submitted to Bob Thompson, T box, Blacker. Appointment will be based on the written applications and an interview by Thompson and Bill Kern, present Instructors president, and will be made with BOD approval, April 21. The president's job is, according to Kern, "one of those necessary jobs, essentially that of coordinating a labor pool."

New Student Camp counselors' applications should be given to Mike Godfrey, G box, Ricketts.

THIS WEEK

Thur., April 10 — Tennis, U. of Arizona at Tech, 3 p.m.

Fri., April 11 — Baseball, Cal Western at Tech, 4:15 p.m.

Swimming, U. of Arizona at Tech., 4 p.m.

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

Ricketts, Fleming exchanges Dabney, exchange at Laguna Blacker, Alley Golf

Sat., April 12 — Baseball, Whittier at Tech and Frosh at Whittier, 2:15 p.m.

Track, Redlands here, 1:30 p.m.

Tennis, Oxy here and Frosh at Oxy, 1:30 p.m.

Swimming, Tech at Santa Barbara, 2 p.m.

Dabney-Fleming street party Ricketts, theater party Blacker, exchange

Mon., April 14 — BOD meeting

Tues., April 15 — Tennis, Pasadena College at Tech, 3 p.m.

Frosh Baseball, L. A. Pac. Coll. here, 4:15 p.m.

Frosh Lunch Club, Dr. Elliot

Wed., April 16 — Baseball, Redlands at Tech, 3 p.m.

Thurs., April 17 — Swimming, Tech at Pomona, 3:30 p.m.

Fri-Sat., April 18-19 — YMCA Seeley Conference.

The cost of the weekend will (Continued on page 6)

The California Tech



"I guess this takes care of that hole on page six."

EDITOR: Mike Milder

EDITORIAL BOARD: Bill Bauer, Cleve Moler, John Todoroff

STAFF

Bruce Allesina, Ted Bate, Carl Gottschall, Gerhard Klose, Sid Leibovich, Bob Norton, Stan Sajdera, Harry Spertus, Jim Uleman.

BUSINESS MANAGER: Dave Leeson

Circulation: Urban Kern

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Editorial

An Important Decision

The Interhouse Committee ruled yesterday that Ricketts House retain the points it earned as co-winner, with Blacker, of the interhouse volleyball competition. This decision came as a surprise to many observers. It may prove to be the most important decision the IHC has made in a number of years.

The ruling hinged on a technicality—interpretation of eligibility—and a decision either way could have been legally supported. (See story, page 5.) An alternative vote would have materially improved the standing of Blacker, Dabney, and Fleming in the Interhouse Trophy competition, at the expense of Ricketts.

Ample Precedent For Alternative

Ample precedent existed for a vote unfavorable to Ricketts; the IHC is marked by a long history of devotion to self-interest as a guide to procedure. Just last week, Ricketts voted, openly in its own self-interest, against a clearly justified interpretation of the rule invoked in the present case. Ricketts did not increase its chances for mercy by this action.

On the other hand, all evidence of intention on the part of Ricketts House, and the mitigating circumstances surrounding the infraction, made it clear that fair play would be served only by the ruling that was ultimately made; fair play and traditional self-interest had seldom been more plainly separated.

Unique Opportunity

The above situation opened up a unique opportunity in yesterday's IHC meeting. The three Houses that stood to gain by a ruling adverse to Ricketts had the opportunity also to take significant moral initiative by supporting Ricketts at the expense of their own self-interest. Fleming House alone showed the astuteness to recognize the opportunity.

By this move, Fleming's representatives in the IHC may have gained for their House a measure of respect and good will among the Houses that outweighs the temporary advantage they lost in the Interhouse Trophy race.

More important, they are responsible for the precedent that could crumble the tradition of selfish maneuvering that has marred IHC meetings for so long. We can even hope that yesterday's ruling will be the one that sets the IHC on the road to becoming the organization it was intended to be: the guardian of the spirit of cooperation and friendly rivalry among the Houses.

LETTERS TO THE EDITOR

To the Editor:

Once upon a time, the various student houses decided to have a joint social event to be run by each house individually as opposed to being run by some central agency (i.e. the ASCIT Board). And this became known as the Interhouse Dance.

In the beginning, each house played records and served refreshments. That's all. In time, the houses began to decorate slightly. And then began the race—until now each house tries desperately to out-decorate, out-big-name-band, and out-spend each of the others.

I think enough is too much. The Associated Students put on several all-school activities (the Formals, etc.) and I think it is a sublime idea for the Houses (by Houses I mean the four res-

ident houses and the non-resident house) to have at least one joint dance or other social functions on their own. But the extravagance shown in the one Interhouse Dance which I have seen (I understand that this year's dance was a typical dance) is unwarranted.

For the sake of round numbers let me say that each house spends about \$500 cash on the project. In addition, each house puts in at least 1000 man-hours of labor during first term midterms. This means that for one four-hour period (the decorations are generally finished after 6:00 Saturday night and are largely torn down the next day) more than \$2500 and 5000 man-hours are expended. I think this is ridiculous.

It is my opinion that the

Text: New Student Camp Proposal

The ASCIT Board of Directors, on January 20 of this year, appointed a special committee (under the chairmanship of Michael Godfrey) to investigate the New Student Camp and charged this group to bring back definite recommendations about future camps. This procedure followed from the new position ASCIT has been granted in the selection of next year's Student Camp staff. To date the committee members have met seven times, interviewed many faculty members, and discussed the Camp with a good percentage of the undergraduate student body. Their conclusions and recommendations are summarized in the following report. (See story, page 1.)

1. **The New Student Camp should be continued.** The Camp serves a very useful purpose in the orientation of newcomers to the campus, by helping them to know each other and to know the Institute. The foundations of teacher-student relationships are laid at Camp; if we desire the close informality that we claim to have on campus, it must begin here. To this end, the committee feels that the Camp can be made more effective than in the past.

2. **The programming of the Camp should be changed.** Long, poorly prepared talks have been weak media for attaining the desired goals of the Camp. With the exception of Dr. DuBridge's address and the Honor System talk, the barrage of "upper-class and faculty lectures" should be eliminated. These items should be replaced with three planned, informal sessions, where groups of 10-15 new students take part in a well-prepared discussion period under the guidance of an upperclassman and a faculty member.

3. **More spirit should be put into the camp life.** From the moment the students board the busses they should begin to catch the spirit of enthusiasm and informality of the upperclass leaders. Inter-group competition, with bus loads of cabins as units, should be encouraged. The dining hall should not be neglected as an area for instilling enthusiasm in the participants. The committee recommends more singing at Camp.

4. **The following program is recommended.**

Thursday morning: Registration; on-campus tour;

Thursday afternoon: Bus trip; settle in cabins; dinner, cheers and songs, action.

Thursday evening: General assembly, introductions and welcome, skit, DuBridge's talk; campfire, ping pong, talent practice.

Friday morning: Campfire cir-

cle, routine announcements, serious talk (leading up to discussion); discussion No. 1 — 20 groups of 10 each, volleyball tournament.

Friday afternoon: Campfire circle; discussion No. 2 ("Honor Spirit" might be the topic); athletics; talent practice.

Friday evening: General assembly, talent show, "Rotation" talk (maybe), faculty skit; campfire and songs.

Saturday morning: Discussion No. 3; finish volleyball tournament; student All-Stars vs Faculty and Upperclassmen in all athletic skills.

5. **The details of Camp should be settled by the appointed staff.**

To aid them in their work, the committee makes the following recommendations: (a) Real preparation is necessary to make an "enthusiastic" camp. (b) Well-chosen upperclassmen should have definite bus assignments, with specific points to put across on the trip. (c) Run down cockiness right at first. (d) Discussion questions should be well chosen. (e) Bridge games and chess boards should be confiscated. (f) The faculty are human. (g) Challenges and songs are a powerful

building block in forming esprit de corps. (h) Upperclassmen are there for the benefit of new students.

6. **A pamphlet should be mailed to each new student during the summer.** Facts and details eliminated from the numerous speeches of past years should herewith be presented in a concise fashion. The Health Center talk should also be included in this mailing, for the benefit of the parents.

7. **An on-campus tour should be held Thursday morning.** This enables newcomers to find out the plant set-up at the time they are most in need of such information, rather than a week later. Such items of freshman registration as photos and safety glasses should be postponed until Monday to give time for these tours.

The remaining details and minor suggestions discussed by the committee are on file and will be presented to the new Camp Staff upon the latter's appointment. This report was submitted to the ASCIT Board on April 14, 1958.

Respectfully yours,

Gary A. Zimmerman

President's Column

This week I shall reply to the editorial in last week's California Tech headlined "ASCIT's Big Year." The disadvantage of this topic is immediately obvious. I am writing for the small fraction of readers who through uncommon memory or more uncommon interest in student government can remember something of that editorial. Of course there may be those who can refer to their handy California Tech file. . . .

The statement that the proposals for amendments to the ASCIT by-laws did not run against strong conservative opposition could not be farther from the truth. After the proposals were introduced every move made by the Board of Directors bore the stamp of conservatism. It was conservative influence, whether good or bad, which excluded the possibility of serious discussion of such matters as possible methods of achieving fair representation of the four (soon to be seven) Student Houses on the BOD, change of the numerical membership of the BOD to produce more effective organization, provision for clearly defined means by which larger numbers of students could become interested and active in student government activities, or clear working arrangements between ASCIT and the YMCA or the IHC.

The prologue to the text of the final amendment as published in the California Tech stated that the amendment was but a minor conservative step toward better student government. Easily more than half of the discussion time spent by the BOD on this topic centered around whether it would be wise to make any real change at all.

Then came the statement, "For Tech's student government must begin to worry about public relations. . . . The student government began to worry about public relations some time ago. It was the result of several years' worry by a good number of Board members that brought about the end, for several years, of the Pajamarino. I should say that less worry and more imaginative activity in this area might be to our benefit. The statement

that "Our student government must be alive to opportunities." is also noteworthy. I am sure that there have been several Boards in the past which have been more or less alive, and yet have found precious few opportunities which presented themselves at 7:30 p.m. on Monday evening in lower Fleming. At the risk of being trite, opportunities are made by a conscious effort, not a passive awareness.

The editorial states that the administration will call upon the ExComm for advice in planning the new seven House system: The IHC, being the only student organization directly concerned with the operation of the Student Houses, would be the logical organization to render advice to the administration on this topic. The ExComm should offer a large amount of time and effort to assisting the IHC in collecting and analyzing the information necessary to the making of policies which will affect the entire student body.

If any student government officer did not want to exert himself unduly, or did not want to arouse student interests, he should represent himself as (I quote from the editorial) "ready to represent enlightened student opinion." In case someone does demonstrate the leadership to form and organize student opinion on some topic the ever-ready student may easily jump on the bandwagon at the last minute. Otherwise at the end of a year in office he can sigh and say "I was ready."

The last two paragraphs are without doubt to a considerable extent true, and similar to the first one. One gets the feeling that the easy way out is to be negative.

A year from this date the ExComm and Board of Directors should be willing to stand and be judged either constructively or nonconstructively. They can then be judged on the facts of their actions. Until that time I believe that any organization sincerely interested in better student government should be willing to lend, at least, constructive criticism to the ASCIT, mildly changed in structure but, I hope, basically changed in outlook.

Michael Godfrey

(Continued on page 5)



WEATHER MAKES NEWS: Caltech students met transportation problems caused by last week's severe rainfall with characteristic unconcern.

Campus Brewins

Damped Spirits

The monsoon season struck, and one day last week Caltech was really in a state of emergency. Fig Newton, Defective Detective, found things in a real state of chaos. It seems that the Fig stepped into one of those rooms marked vir. After the due process of events he suddenly noticed that the absolute humidity in his right hip boot was getting absolutely too high. Now Fig is nearsighted and had to put on his glasses to see what was wrong. (It does make you blind.) When he had made a careful check of what was happening, he rolled down his boot and went forth into a world full of pitfalls a much damper and wiser man.

Orgy

Our old friend, D. Gilswine, hit town last week on his spring sprung from Cal. What else can you do but have a party? One was had by all.

Things got off with a pretty big roar consisting of equal parts of semi-infinite amounts of women, soda pop and stringed instruments. Said Kosherman, "that girl was really ugly at the start but as the evening went on she got better and better." After the Beak asked the usual question he replied: "By that time I'd had too much to even dance." Cooled Hops, "How old are you?" "16" sesh she. "Good bye" cooed Hops. "No, never again," quoth the sweet demure young miss as she withdrew from the D.T.'s. The Velintoid managed to show up about three just as everyone was finding . . . his weary home.

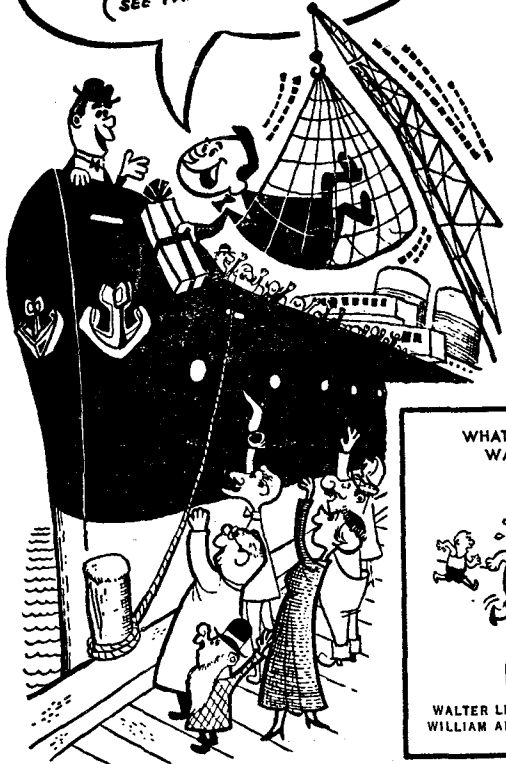
Wowdies Whoopie

Those sterling lads from Ricketts gathered themselves together and converged on the humble domicile of one Nissen. Guest D. Trucker was the highlight of the evening, but only after he left. It seems that he and his date were parked out in front of his date's house in a position roughly consisting of his head in her lap. A quiet conversation was in progress; Trucker said something, then it was her turn; she replied and waited patiently for his answer. Nothing; "Dave!"; still no answer. After much shouting in his ear she gave up and drove back to the party in hopes of finding someone who would drive our poor lad home. After all what would mother say with one passed out date parked out in front of your house?

Dick Bawl was also able to forge his name down in history in a similar fashion. Bawl was disc jockey, but as disc jockeys will do, he got thirsty; and as the evening progressed, he found that his efficiency was dropping off, way off so far that he found it quite impossible to continue his duties from his then permanent home, the floor.

Sticklers!

WHAT IS THE BEST PRESENT YOU CAN GIVE A FRIEND WHO'S GOING TO EUROPE?
(SEE PARAGRAPH AT RIGHT)



BON VOYAGE presents? You might give a substantial checking account in the Left Bank of Paris. A deck of cards for playing London Bridge. Or walking shoes in which to Rome Italy. Better yet, give Luckies—and make your present a *Partin' Carton!* A Lucky, after all, is the best-tasting cigarette anywhere. In Paris you hear, "Un Luckee? C'est merveilleux!" (That's French!) Roughly translated, it means: it's all fine, light, good-tasting tobacco, toasted to taste even better. (That's advertising!) Just light up a Lucky and see for yourself! (Now, that's smart!)

Stuck for dough?
START STICKLING! MAKE \$25

We'll pay \$25 for every Stickler we print—and for hundreds more that never get used! So start Stickling—they're so easy you can think of dozens in seconds! Sticklers are simple riddles with two-word rhyming answers. Both words must have the same number of syllables. (Don't do drawings.) Send 'em all with your name, address, college and class to Happy-Joe-Lucky, Box 67A, Mount Vernon, N. Y.

Secretary's Report

ASCIT APPOINTMENTS

The following presented themselves as candidates for ASCIT appointive offices: Russ Pitzer, Wally Baer, Don Owings, Dave Singmaster, Gary Zimmerman, Charles Antoniak, and Bob Lange, for Executive Committee; Bill Benisek and Marty Kaplan for BIG T Business Manager; Keith Brown, Dick Jones and Stan Sajdera, Jerry Hansen, for BIG T Editor; Howard Weisberg for Business Manager of California Tech. Final selections will be announced at the BOD meeting next week, April 14. The application deadline for Editor of the Little T, head of the ASCIT Photo Division, Chairman of the ASCIT Election Committee, President of the Instituturs, and Frosh Camp Counselors, will be the same day. Selections for these offices will be announced on April 21.

BUDGET PROPOSALS

Discussion on the matter of the ASCIT 1958-1959 budget will take place at the BOD meeting on April 14. It is expected that on this date a proposal for a partial ASCIT subsidy of the Inter-house Dance will also be presented.

ATHLETIC MANAGERS

Gary Zimmerman and Ronald Lawler were appointed Assistant Managers of Varsity Swimming. De Witt Landis, Jr., will fill the same position in Varsity Baseball and Dave Eberhart will manage the Frosh Baseball team.

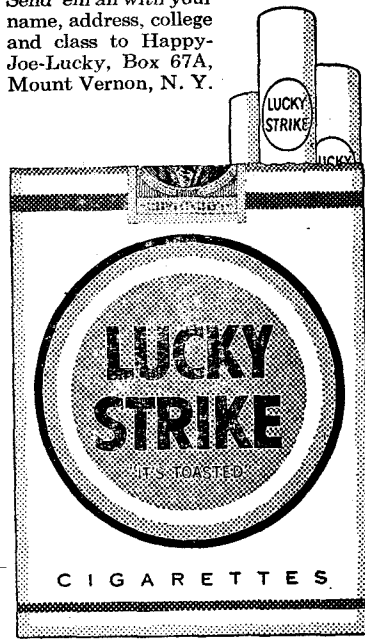
Tom Jovin
ASCIT Secretary

WHAT IS A LONG-DISTANCE WALKING CHAMPION?

WALTER LEYLAND, WILLIAM AND MARY *Pace Ace*

WHAT IS A MODEST MISTAKE?

ANNE LUBELL, BROOKLYN COLLEGE *Humble Bumble*



WHAT IS A TEN-DAY DICTATOR?

GORDON WAKEFIELD, U. OF KANSAS *Brief Chief*

WHAT IS A SHEEP'S "HELLO"?

JOYCE BASCH, PENN. STATE *Bleating Greeting*

WHAT IS AN ADROIT FISHERMAN?

WILLIAM WILLIAMS, YOUNGSTOWN U. *Master Caster*

WHAT IS A MOTHER WHO SPARES THE ROD?

DONNA SHEA, BUFFALO STATE TEACHERS *Toddler Coddler*

LIGHT UP A *light* SMOKE - LIGHT UP A LUCKY!

Product of The American Tobacco Company - "Tobacco is our middle name"

On Campus

Dabney Chamber Music Group Gives Performance Below Usual Quality

by Joel Yellin

Last Sunday's chamber music concert in Dabney lounge presented Paulina Carter, pianist, and William Vanden Burg, cellist, in a performance of three sonatas: Beethoven's first; the Brahms opus 38 in E minor; and the Rachmaninoff Sonata in G minor, opus 19. Miss Carter is widely known for her many concert and radio appearances, and Mr. Vanden Burg is an artist well known in this area for many years.

Beethoven Piece

First on the program was the Beethoven piece. This was the earliest in the series of five violoncello and piano sonatas written by the great German composer. The opus number indicates it belongs to the earlier Beethoven period. This is very important, since for performance purposes, the works of Beethoven are divided into three periods: early, middle and late. It is customary for performers to vary their interpretations accordingly. Physically, the earlier period differs in its smaller range of tones used. It is also traditional to restrain one's dynamics for the earlier music. Staccati (notes

with small dots over them, short notes) are never hit sharply, but are held slightly.

Tempo Dragged

The first movement is marked adagio-allegro. Actually, Beethoven wrote "allegro con moto," but most editions neglect this. The adagio passage is a characteristic short introduction, usually played too slowly and regularly. Unfortunately, the modern adagio is somewhat slower than the tempo which Beethoven asked for. This typical lack of freedom and drag of tempo occurred Sunday night.

There was also a certain strained quality in the Beethoven, noticeably in the cellist's forte passages, where excessive pressure made the tone break occasionally.

Although she had technical difficulties with the latter half of the movement, the pianist redeemed herself more than adequately with beautiful dynamic control. Unfortunately the effect of this was partially ruined by the cellist's over-emphasis of phrase after phrase. The lack of freedom disappeared as soon as the fast tempo arrived, but the coda was again highly forced by

the cellist.

Unsteady

The allegro vivace seemed a little unsteady in tempo at first, and though a large amount of over-emphasis still remained in the cello part, Mr. Vanden Burg's control improved. However, he made the mistake of shortening notes far too much in the staccato passage. The piano drowned out the cello in the finale, probably because she played forte and he played pianissimo.

The great difficulty in performing Brahms is that one must hold the continuity; otherwise there is a strong tendency for the music to seem very episodic. This can be very difficult owing to Brahms' rhapsodic style. The performance was average in this respect, becoming a little unconvincing as to melodic line at times. The cellist fought the melody; he won. Again, pressure of tone was too great and caused breaking.

Lost Control

The second movement, an allegretto, proceeded well except for a continual over-accentuation by the cellist. There was one interesting harmonic, not due to Brahms, which came through very well.

The allegro was attacked loudly by the pianist, obliterating the cellist who was slowly improving with practice. He still managed, however, to lose control of the melody in several places although he negotiated the finale well.

After intermission the performers returned although a portion of the audience did not. Last on the program was the Rachmaninoff cello sonata, opus 19. As though by magic, the cellist seemed to have suddenly regained an equilibrium and this was easily the best music of the night. The first movement was quite effective except for a sour note which sounded badly in the cello. The piano was still a little loud, blasting in the finale.

Difficult to Play

The second movement, marked allegro scherzando, is difficult to play clearly because of the large number of notes written in the lower register for the cello. Other than a blurring in these passages this movement proceeded smoothly.

The andante was played well although the piano was unclear in the contrapuntal solo passage. The cellist no longer forced his tone to the breaking point.

In the difficult allegro mosso, there were a number of inaccuracies, both performers being equally guilty. Except for more forced melodic line, the performance proceeded well to an extremely good finale.

Generally, the pianist was very good; the cellist, improved, performing the Rachmaninoff with polish and taste. On the whole, the recital was merely adequate.

Jazz Beat

by Lloyd Kamins



Bop City

In the magnificent city of San Francisco there are many night spots, and jazz pours out into the night from every other doorway; but one club in particular has made an extreme impression upon me, and that is Bop City.

Bop City opens at 2:00 a.m. and closes at 6:00 a.m. It is the spot that all the musicians go to after they have wrapped up their regular gigs. After a while I thought they might charge me rent. Due to the hours no alcoholic beverages are served, although near-beer is endlessly touted by the drummer. (He is a bearded Negro who wears a Chinese Mandarin cap and looks like a sun-tanned Ghengis Kahn.) Admission is \$1.10, and that is all one need pay for the entire evening (morning?) If the outside doors are closed, you enter by means of the ratty little hamburger joint next door (I think they push H).

ATMOSPHERE

More than any place I've ever seen, Bop City has "atmosphere." The place itself is a hole and the furnishings and decorations are cheap, but the effect is endearing. The walls are the work of some madman with a paint bucket and a glow on.

What makes the club is not so much the music, which is sublime, but the clientele. Everyone there is either a card-holder with a horn or at least an avid sympathizer. The races are about evenly split and there is absolutely no color barrier. I met many Negro musicians there who took me around to back rooms and bars where the jazz was wild. On my first night at Bop City a middle-aged Negress draped herself over me and exclaiming over my wonderful personality, told me that I reminded her of Cecil B. DeMille. I finally bought her the beer.

All the weirdies of San Francisco drop in at some time during the night. Every third man carries a horn, and the tenor saxes are so thick that the place looks like a pawn shop. Everybody is a character with some odd or bizarre trait. One night two young white boys slithered in, hunched over, crumpled, and somewhat obscured by heavy woolen overcoats. After methodically peering at the face of each patron in turn, one of the two produced a violin case from the depths of his coat. Amid worried stares he then pulled an alto sax out of the case and crept onto the stage. People relaxed, as violins were not appreciated, but the relaxation was short-lived.

BENT ALMOST DOUBLE

When the hunched one's solo came he bent almost double, looking like a midget beside the six-foot-six bassist. In his contorted position he played blues that appeared to be a scream of pain. Everything he blew was tinged with agony—and a suggestion of paranoia. The style was reminiscent of Ernie Henry but was much more strident and uncompromising.

The other horn man, an easy going tenor, and a rather tired bass trumpet were visibly startled by the underlying hysteria of the altoist. They began to draw away physically from the wailing one, who followed them across the stage quite unaware of what was happening. It looked like Santa Anita. After a set of tortured sounds our boy slunk off, leaving a much relieved group behind him.

WORKED WELL TOGETHER

Every set the band changed, but they were all excellent musicians and all the horns knew the riffs. I was amazed at how well they all worked together even though it was but a glorified jam session. Although there was order, the prevailing mood was that of informality and relaxation. Most songs were blues-oriented, but all the jazz standards were heard. **Dig, Jordu, Tunista, and The Preacher** were the favorites.

There was always a line at the piano bench, and each man blew more than the one before. The house man on keys, who rarely got a chance to sit in, made **Day By Day** sound like Gospel singing. He was way down. The best drummer by far was Dick Burke, whom I also caught at the Blackhawk where he backs Brew Moore. Dick is a pudgy, rotund type, often called "the round man," but he drives that band.

On Friday night there were four horns most of the time, blowing complex head arrangements. This was a bit unusual—the group seemed to stay as a quintet the bulk of the time. The honors for the week went to a sallow blond with a bari, who I swear said as much as Mulligan. He was earthy as only a barie can be on the funky numbers and was the only one who could handle the tempos on the way, way up tunes.

As is obvious, I was overjoyed with the quality and continuous variety of the music. This is where the sounds of San Francisco are. But the reason that Bop City is so enjoyable is its free and easy mood. Everybody is friendly, everybody is happy—and it's contagious.

YMCA Debates Loyalty Oath; Decides To Sign

Opinion by Howard Weisberg

A California statute requires churches and other non-profit corporations to sign a loyalty oath each year in order to be exempt from the state franchise tax. This law applies to the Caltech YMCA and so each year it has had to choose between paying a \$25 tax or signing the oath and certifying that it does not advocate overthrow of the government and that it would not support a foreign power in a war against the United States.

In the past the Y has signed this oath; however at the monthly meeting of the Board of Directors last Monday it was suggested that this year it should protest the law by refusing to sign the oath.

AT FIRST GLANCE one would think that the whole question of loyalty oaths is one that is not worth much concern, especially on the part of future scientists and engineers who are and will continue to be innocent of any subversive connections. However this is not true, or at least not to essentially all of the faculty members and other prominent citizens who are on the Y board and to the many other distinguished persons who have protested such oaths. In fact there is a large segment of American scientists, represented very well here at Caltech, who are quite concerned with the loyalty oath question.

One might think that the only reason an organization or a person would have for refusing to sign is that they have something to hide. However the fact that the YMCA has already signed such oaths indicates that its motivation lies elsewhere. One of the most vociferous sources of protests against such oaths have been members of the Geology department, yet nowhere could one find a more loyal group.

THE ASSUMED PURPOSE of the loyalty oath is the location and prosecution of subversive organizations. Yet the truth is that no subversive organization would hesitate to sign this or any other oath. Further, there has never in the history of such oaths been a judicial conviction for false swearing (Harold Hyman, **The Era of the Oath**, University of Pennsylvania Press, 1953).

The issue, however, goes much deeper. An understanding of what is involved may be gotten from the pamphlet by Hallock Hoffman entitled "Loyalty by Oath, an Essay on the Extortion of Love," or from a chapter in a new book by Justice William O. Douglas entitled "The Right of the People." As Hoffman puts it, "The test oath strikes at a principle of law that is at the heart of the American system of justice. We have always said: a man is innocent of any crime unless he is proved guilty of it. We have always held proof to be more than accusation. . . ."

"THE DANGERS are these: That (loyalty oaths) will make men into liars; that they will make men believe in unreality and give them the illusion of security; that they will corrupt the doctrine of the presumption of innocence; that they will make men timid; that they will drive some honest men from public service; that they will establish patterns of conformity that invite the demagogue and encourage the totalitarian. . . ."

At the Y board meeting, it was almost unanimously agreed to protest the oath by means of letters to the tax board and various legislators and government committees. It was then debated whether to sign the oath this year. It was pointed out that refusal to sign might weaken our position in the eyes of the public and of certain legislators. A fear was expressed that adverse publicity might result in withdrawal of badly needed financial support from certain quarters.

It was voted, 10 to 7, to sign the oath.

Pit and Paddock

Races Promise Excitement

This weekend's Palm Spring races promise to be the most interesting in years.

The entry list for the over 1500cc main event includes Carroll Shelby in a 4.5 Maserati; Lance Reventlow in his very hot \$25,000 Chevy-engined special; Johnny von Neumann in the first local appearance of his 3 litre Testa Rosa; Richie Ginther and European hill climb cham-

pion, Willie Daetwyler, both in 2 litre Testa Rosas; and Dan Gurney in his 4.9 Ferrari.

CALTECH GRAD

The under 1500cc event has for one of its main entrants last year's Caltech graduate Jim Hall in a new dohc 1500cc Lotus, extensively factory modified. Hall's rivals will be Jack McAfee in a Porsche RS Spyder and Bob Drake in the first Willment-Cli-

max to come to the States. The Willment is a new British car powered with the Coventry Climax dohc 1500cc engine, which puts out 141 hp. Other features of the car are a deDion rear end and a five speed box.

The biggest surprise of the whole weekend, though, is a very welcome reduction of admission prices to 90 cents on Saturday and \$1.75 on Sunday.

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Frosh Camp

(Continued from page 1)

Increased emphasis on spirit and morale is another of the committee's points. This includes inter-group competition, singing and general attitude.

The committee also recommends a detailed pamphlet and a better campus tour to supply factual information formerly included in the speeches.

Committee members included Mike Godfrey, Tom Jovin, Gary Zimmerman, Tom Tisch, Rick Nordlander, Bill Bauer and Cleve Moler.

The complete text of the report is found on page 2.

LETTERS

me that I would rather have a girl going out with me because of me than as an excuse to see The Big Show. I think that any house which can't unite the frosh class by themselves and with the aid of the \$350 or so to spend on social events over a term isn't going to do much better with the Interhouse.

Harry Spertus

DOUBLED AND REDOUBLED

by Dave Singmaster

North
 S Q 5 4
 H 652
 D J852 South dealer
 C KJ8
 North-South vulnerable
 South
 S - -
 H AK9743
 D AKQ7
 C AQ10
Bidding: Opening lead K-S
 S W N E
 2H - 2NT -
 3H - 4H -
 6H - - -

This week's hand is shown above along with a possible sequence of bidding. How would you play it? Keep the trump suit in mind because only there can tricks be lost.

This hand is a fine illustration of the safety play. A safety play is one in which declarer loses an almost certain trick to insure against losing two in case of a bad split. In this case South must be afraid of a possible 4-0 split which is the only way he could go down. Normally, pulling the A K will draw at least three of the four trump and declarer then loses only one. If trumps split 4-0 with all four in East's hand, then he can still make; but if East has none, the contract is down.

If trumps split 2-2, seven is icy, and an ambitious player may start to draw with the A and find West void; then it's too late. South must safety play and give up seven in order to make six in case East has four trumps.

Let us now examine the probability of such a trump split. The general formula for n things taken r at a time is n. Applying r!(n-r)!

this to the hand in question, we find that there is one way in which East will have 0, four in which it has 1, six in which it has 2, four in which it has three, and one in which it has four. The chance of making seven is hence 6/16 or 37.5%, too small to play for if the bid is only six.

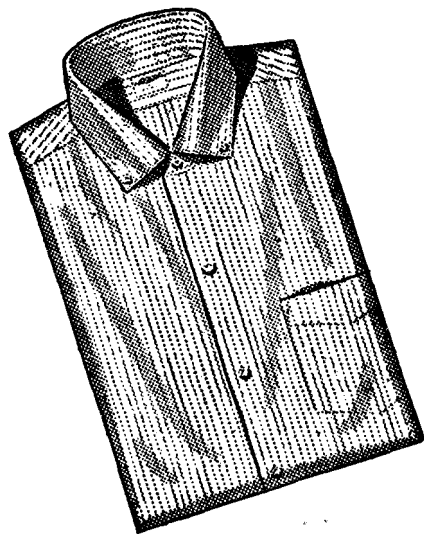
The probability of making at least six by pulling the A K is 14/16 or 87.5%. The probability of either going down definitely, i.e. East having none or of going down by pulling the A K is 6.25% for each occurrence. The safety play hence raises the chance of making from 87.5% to 93.75%.

Let's now look at the hand in its entirety.

North	East
S Q54	S J632
H 652	H QJ108
D J852	D 1064
C KJ8	C 32

West	South
S AK10987	S - -
H - -	H AK9743
D 93	D AKQ7
C 97654	C AQ10

To play properly, South must take the opening lead with the 3-H and lead the 10-C to the J. He must then lead a low trump and play the nine if East plays the eight or else the king if East plays the Q, J or 10. If the latter, South returns to the board after finding West void with the Q-C and again finesses, winning with the Ace or nine, and returning yet again if necessary with the 7-D and again finessing, losing the 10 or winning with the nine, leaving the 10 for his only loser and making six.



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MAN, I THOUGHT YOU'D NEVER GET HERE!

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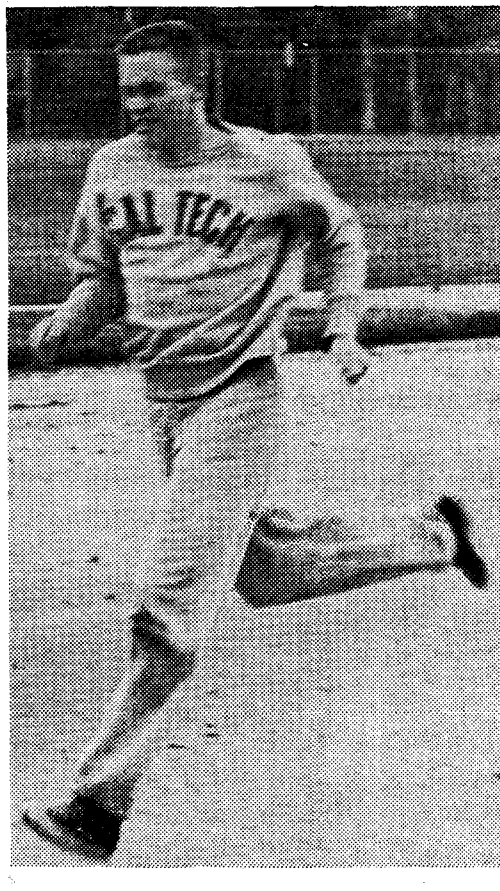
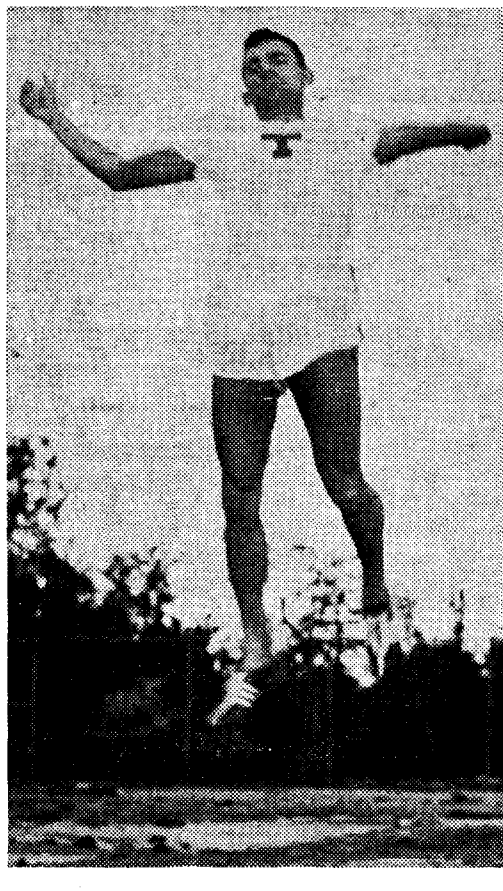
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Tony Leonard, Ron Forbes, Dick Van Kirk (shown in a broad jump), and Steve Aherns formed Caltech's mile relay team in last weekend's Santa Barbara Easter Relays. Paced by Ron Forbes' 50:2 quarter, the team finished fourth with a time of 3:25.3. Leonard, Forbes, Van Kirk, and Ed Krehbiel also entered as a 440 yard relay team; Van Kirk entered the broad jump. The first conference meet is slated for this Saturday, when Tech will host Redlands.

Sports

Ricketts Retains Volleyball Points

IHC Declares Player Eligible; Trophy Standings Unchanged

Ricketts will retain all of its interhouse volleyball points and finish first as a result of the Interhouse Committee's ruling yesterday.

By a vote of 6 to 3, the IHC decided that a man who played in one game of the match against Throop would not be declared ineligible, since although he did not have a physical examination, his name appeared on the official eligibility list.

The man played a few min-

utes of the first game, won by Ricketts, after which Nerrie announced the forfeiture. Ricketts also won the other two games of the match, playing without the ineligible man.

Back Forfeit Rule

Last week the IHC reaffirmed rule nine of the Interhouse Eligibility Rules which states: "Any violation of the above rules by a competitor will result in a forfeiture of that contest by the House for which he is competing. Any House which forfeits an Interhouse contest will be automatically ranked fifth in the final standings in that sport, and will receive no trophy points in that sport." The vote was seven to two.

An Ambiguity

The section of the "above rules" interpreted to Ricketts' advantage yesterday reads: "A copy of the approved eligibility list will be returned to the House Athletic Manager before the first scheduled contest. Men to be certified as eligible shall have passed, during the current year, a medical exam given by an Institute Doctor." Ricketts contended that the first sentence of the rules takes precedence, and the majority of the committee agreed.

The present standings are as follows:

Ricketts	90
Blacker	68½
Dabney	59½
Fleming	59½
Throop	49½

SEELEY CONFERENCE

(Continued from page 1)

be nine dollars, two dollars of which must be paid in advance at the time of registration. A sign-up list has been posted in the Y office. All those interested are encouraged to sign up immediately or to contact Bob Blandford or Tom Morton for information.

Interhouse Football Set Monday

The bad weather quite adversely altered interhouse football practices, but despite the rains and muddy fields the teams have been trying to get in shape for next week's games. Neither coaches nor team members are satisfied with their progress and hence are extremely cautious in forecasting results.

Fleming Favored

Fleming, led by coach-player Converse, seems to be the favorite as usual, with Ricketts and Dabney both potentially dangerous threats. Blacker has aroused some curiosity by not holding their practices in Tournament Park. This year's games promise to be closer and hence more interesting than previous years', with anyone of the teams actually having a chance to cop the first place points.

- The schedule of games is:
- April 14—Throops vs Dabney
 - 15—Ricketts vs Blacker
 - 16—Fleming vs Throop
 - 17—Dabney vs Ricketts
 - 18—Blacker vs Fleming
 - 21—Throop vs Ricketts
 - 22—Dabney vs Blacker
 - 24—Blacker vs Throop
 - 25—Fleming vs Dabney
 - 28—Ricketts vs Fleming

San Diego Topples Diamondmen

by Lance Wallace

The Caltech baseball team, plagued by the damp Southern California climate, lost a return engagement here last Saturday with the San Diego University team, 9-6.

A full week of forced inactivity showed, as hitters had lost their batting eyes, and the fielders couldn't pick up the ball. The Beavers struck out 6 times, against a pitcher who wasn't that fast, and committed no less than five errors in the field, allowing as many unearned runs.

Miss Early Chance

The first inning opened with a splendid opportunity to score a few runs, when the bases were walked full by SDU pitcher Shea. But a sacrifice fly and a

As I See It

Redlands Looms Tough

by Dick Van Kirk

Saturday the University of Redlands track team comes to town to engage the Caltech squad in the first conference dual meet of the season for both teams.

Last year the Bulldogs were unbeaten in dual meet competition in the SCIAC and finished second in the all-conference meet behind powerful Occidental. This year's Redlands squad is almost as strong as the 1957 edition. Caltech's team is long on guts and short on material. There are six or seven men capable of winning first place points in one or two events against the Bulldogs, but even with peak performances on the part of all Caltech athletes the meet's outcome is at best close and uncertain.

The Beavers are by no means favorites for this contest, and a Caltech win would considerably rearrange the thinking of several people around the SCIAC concerning relative dual meet strength.

HUMILIATED LAST YEAR: There are several men on the Caltech team who remember last year's 101-29 loss to Redlands and are eager to gain a measure of revenge for their only dual meet humiliation of 1957. Each man on the Beaver squad is thinking of how he personally can do his best to upset the dope sheet.

Ron Forbes is plotting ways to beat Phil Young and Jim Scribner to the tape in the quarter mile. Tony Leonard, an odds-on favorite in the half-mile, looks to the mile relay for a chance to upset the Bulldogs, as does middle distance man Steve Ahrens. Ed Krehbiel, recovering from a bad cold, will go all out in the sprints to top Merv Lovenberg and Bill Schueller of Redlands and will also face two top-notch low hurdlers, Jon Winter and Ron Roberti. Gordon Barienbrock is a strong favorite in the high jump.

BLEAK OUTLOOK: Redlands has outstanding performers in the distance runs and pole vault and seems assured of first place points in these events. Russ Pitzer may pull an upset in the weight events to give Caltech some points, but as I see it, the Beavers will need points in the broad jump, high jump, sprints, high hurdles, and mile relay in order to have a chance to win the meet. Anyone else care to volunteer?

couple of popups killed the rally with only one run scored.

In the top of the second, SDU got it back on two walks and an error. 1-1, and not a hit in the ballgame.

In the third Caltech hitters set out to rectify this error as Kuli singled and Newman doubled him home.

Errors Plague

But the roof fell in on starter Tony Howell in the top of the fourth, as two singles, two errors, a walk and a sacrifice led to three runs, two unearned.

In the ninth inning, after John Price had replaced Howell, a new outbreak of errors, walks and a single here and there produced four more runs for SDU, two unearned.

Rally in Ninth

ACaltech rally in the last of the ninth netted three runs, but was not enough to overcome the imposing lead the San Diego team had built up.

A ray of light showed through in that the Beavers racked up two double plays.

The box score:

				R	H	E
SDU010	300	014	9	7	1
CIT101	100	003	6	6	5

Since both league games scheduled were rained out, the Beavers try again this week to open their league schedule, against Whittier yesterday and Saturday. Tomorrow the Beavers face Cal Western and next Wednesday Redlands. All games will be here.