



Only 28 More
Days Until

California Tech

Associated Students of the California Institute of Technology

New Ears



Volume LXVI.

Pasadena, California, Thursday, December 10, 1964

Number 11

Frosh Approve Initiation In Poll

BY BART GORDON

The Interhouse Committee recently circulated among the freshman class a questionnaire concerning Initiation and Rotation. The purpose was to solicit the opinion of the frosh on the success of the second trial of Rotation, as well as on Initiation, which has come under attack because some think it is becoming too rough.

The three-page questionnaire was divided into two parts, Initiation and Rotation. In the first part the questions were designed to evaluate effectiveness of the present system of choosing a House and the possibility for improvement. In the second part, Initiation was evaluated from the standpoint of enjoyment and the benefits of Initiation to the frosh. From the questionnaires sent to each frosh there was a total return of 156.

Among the frosh questioned, 66 thought choosing a House was of major importance while 64 thought it of reasonable importance. A large majority of the returns, 110, said they had gotten enough information to make their choice of Houses. Forty-eight thought that the impressions they got of the Houses were distorted. Only two frosh did not like the idea of Rotation.

Alternate Rotation Methods

Thirty freshmen did not approve of the way Rotation was carried out and 84 thought they should have more of a say in their choice of Houses. Three alternate systems of Rotation were presented to be ranked according to preference. The most preferred consisted of four choices of Houses. These would be divided into two groups of two Houses each, one group preferred over
(Continued on page 4)



"There is so little magic in the world. Let us encourage it in our children as long as we can." (With apologies to Giles.)

TECH Escapes Three Year Debt

After three long years the California Tech is finally out of debt. J. C. Simpson, Tech business manager, presented a financial report at last Monday's ASCIT Board meeting which showed that the total Tech debt as of December 3 was \$30.25.

This financial statement included the first ten issues this year, or all issues up to last week. So the estimated profit of this week's California Tech is \$71.00, the Tech should now have a surplus of \$40.00, going into the black for the first time in at least three years.

Simpson also reported that the Tech had a record profit for first term, estimated at \$370, or an average of \$34 per issue. Only one issue of the Tech lost money this term (the Oct. 29 issue lost an estimated \$30), and several individual issue earning marks were set. The high spots of the term financially were the ninth and tenth issues (Nov. 19 and December 3), which earned an estimated \$79 and \$86 respectively.

The enormous Tech debt was first discovered in April of 1962, when Lee Molho took over as Tech business manager. Putting the jumbled records he found together, Lee soon came upon the somewhat disturbing conclusion that the California Tech owed far more than its total cash and accounts receivable could hope to account for.

Because of the complete disorder in the records, and the loss of some important items, the exact Tech debt at that time has never been calculated with any certainty. However, both Molho's successors as business managers, Dick Karp and J. C. Simpson, have estimated that the debt was in excess of \$3,500.

The largest single item in the debt was money owed to Bickley Printing Company, which prints the Tech. At one time this item alone climbed over the \$3,000 mark, and the Tech was paying carrying charges of 1% per
(Continued on page 3)

Merry Christmas

and Happy Hanukkah

To All Joyful Tech Readers

(and Snakes)

From the Joyful Tech Staff

Sports Awards Given

The athletes had their day last Monday evening as ASCIT thanked them for their loyalty

and effort at the annual Fall Sports Awards Banquet, held this year in Ruddock House. Although the festivities were a bit lengthy, a good time was had by those attending.

On paper, the program looked innocent enough, but it lasted almost five hours, including the hour spent consuming an excellent steak dinner. Dr. Fred Anson acted as Master of Ceremonies and introduced the many guests present, including the varsity football teams of 1924, 1934, 1944, and 1954. Then the athletic awards were presented to the football, cross-country, water-polo, and soccer teams by their respective coaches.

Off-Color Chagrin

Each athlete was given a time-consuming, but well-earned, round of applause as he was introduced. Numerous jokes, many of which were off-color to the chagrin of the athletes, livened up the proceedings considerably. H. Lee Hansen completed the evening on a high note with his color films of the 1964 Summer Olympics in Tokyo; he photographed the opening ceremonies and several sports, although emphasizing track-and-field and swimming.

Several special awards were presented during the course of the banquet. Of these, eight were given to football players. Barry Dinius was awarded the Wheaton Trophy; the best frosh back was

John Frazzini; the best frosh lineman was Dick Harley; most improved player was Bob Serafin; other football awards included Andy Kampe as best all-around player and first team All-Conference, and All-Conference honorable mention to Lee Myers and Dinius.

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Albert Hibbs To Speak At Asilomar Conference

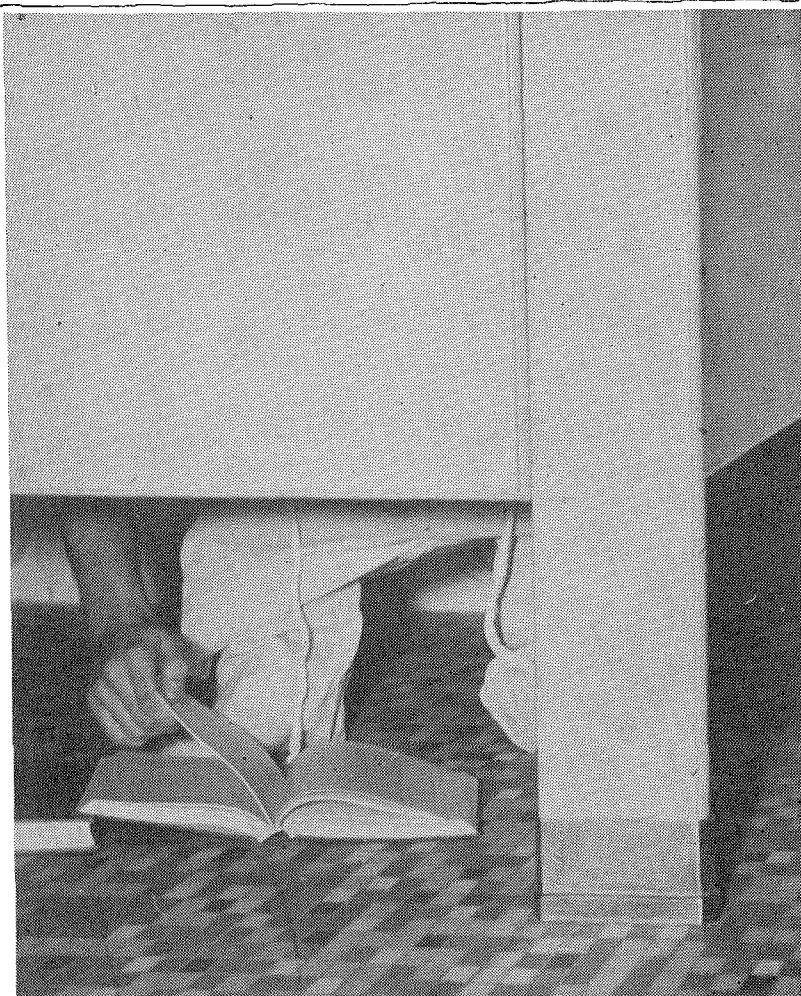
Through the efforts of the Caltech Y, Dr. Albert Hibbs, Chief of the Arms Control and Disarmament Study Group at JPL, will be at the Asilomar Conference this year where he will give two major addresses: one on "The New Science," and the other on arms control and disarmament. Besides his associations with JPL, Dr. Hibbs is also the Science Editor for NBC and a TV personality as host on NBC's weekly program "Exploring."

In addition to Dr. Hibbs there will be five major speakers at Asilomar who will act both as resource people and participants as the conference's theme "The 70's - Promise or Prison" will be unfolded. Like Dr. Hibbs, these people are not only outstanding in

their fields of endeavor but also interesting as personable individuals.

Caltech's other part in the conference will be the presentation of a seminar built along the lines of psychological role-playing and political gaming. Its title: "Forms of Social Protest." (Suggestions have ranged from demonstrations against the culinary facilities at the conference grounds to a pacifist march on Fort Ord protesting the war against meningitis.)

Cost of the conference, which runs from Dec. 27 to Jan. 1, will be \$29.50 for Caltech students, since the Y has promised to pay up to \$30 of the expense for each student going. More information and applications are available at the Y office.



"Snake, frosh!"

Editorials

No Debt!

As long as anyone can remember the **California Tech** has been in debt. Three years ago the business manager of the **Tech** lost \$3,500 in one year. Since then it has undertaken the utmost frugality, plus an increase in subscription rates to reclaim the loss.

Now after three years the **Tech** is free of debt. The credit for this feat belongs to the past three business managers. We hope this experience is remembered and is never repeated in the future.

What does this mean to the average **Tech** reader? First it is now financially feasible to include more pictures and illustrations. This should make the paper look more lively. Second, the length of the paper will not entirely be dependent on the amount of advertising that week. When there are more news and features in a particular week the space can be created.

It feels good.

—Wally Oliver
Stuart Galley

Random Thoughts

" 'Tis the season to be jolly . . . "

Give a subscription to the **Tech** as a Christmas present.

Wait for Godot.

Gnats have no biceps.

It can't go in the paper.

There are

How many more days left?

Happy birthday, Bob Levin.

" . . . Falalalalalalala."

—E. Scrooge
B. Humbug

Silver Talks On Geologic Time

BY JUAN LARGO

Dr. Leon Silver of the Division of Geological Sciences at Caltech presented "Cracked Clocks and the Measure of Geological Time," as the last of the fall series of lectures in Beckman Auditorium last Monday night. Through the use of slides, Silver explained his work in dating geological events through radiography of crystals.

Silver began the lecture by explaining that when our solar system was formed about 4½ billion years ago, both stable and unstable elements were formed in definite proportions. These unstable elements decay exponentially in time to produce "daughter" isotopes. Hence this process can be compared to the sandclock: the "parent" isotope in the top half changing into the daughter isotope when it passes through the neck of the glass.

The five most convenient isotopes for the purpose of dating, according to Silver, are rubidium 87, thorium 232, uranium 238, potassium 40, and uranium 235. The relative amounts of both parent and daughter isotopes can be found through the use of the mass spectrometer.

Problems

However, through Silver's research, the calculated age of a sample of granite taken from Pike's Peak varied widely according to the isotope used. Silver concluded that there must be a "leak" somewhere in the parent-daughter system, that is to say, the sandclock was "cracked" and the isotopes were escaping.

Another source of error would also be introduced if some daughter isotope was already present in the system. Hence Silver found himself in a dilemma analogous to having a cracked sandclock which not only leaked, but was also not started with an empty bottom half.

Luckily for Silver, the uranium

235-238 system helped solve this dilemma since the two isotopes are always found in the same relative concentration of about 1:140.

He continued by giving examples of the dating of granite through the analysis of the zirconium silicate crystals found within the granite. It is a known fact that the zirconium crystals will readily accept uranium atoms at the time of crystallization of the granite.

More Problems

However, the predicted age was found to vary inversely as the concentration of the parent isotope alone, when it should theoretically be independent of this quantity. Here was the second dilemma.

Silver reasoned that this effect would take place if there were some geological disturbance later on that removed part of the daughter isotopes. He put the theory to the test by predicting the date of the second event and found that the date corresponded exactly with a known upheaval of a new group of mountains. The samples were taken in the Mojave Desert within a few miles of each other.

The Presence was Here

He explained that he had also used this technique to determine closely the time interval over which the Reweenawan Igneous Presence existed. The Reweenawan Igneous Presence was a formation of boiling lava some 1200 miles in length and 200 miles in width which extended over parts of Minnesota and Canada. He found that the date of this formation corresponded to the "cooking" of a mountain range lying underneath the eastern part of Canada.

He concluded that greater accuracy in geological dating could be obtained as a result of predicting a post-formation event in a nearby sample.



Tau Beta Pi Accepts Members

BY LES FETTIG

The Caltech Chapter of Tau Beta Pi, National Honorary Fraternity, recently accepted eight distinguished undergrads into its membership. Those receiving the honor were Juniors Stu Galley, John Tucker and John Trijonis, and Seniors Steve Blumsack, Robert Barro, George Brackett, Manuel Huerta and Gary Scott.

To be eligible for membership in the society, the candidate must rank in the top one-fifth of his class as a senior or the top one-eighth as a junior, and must be active in campus activities to the satisfaction of the body of fraternity members. The newly-received members bring the total number to 17, headed by Chapter President, Paul Swatek.

Tau Beta Pi to You

Although Tau Beta Pi is nationally associated as an engineering society, the details of its by-laws allow sufficient flexibility so that all Caltech students in all options except biology are eligible for membership. Since the organization of the Chapter in 1920 through the efforts of Franklin Thomas, this diversified aspect has been emphasized in accordance with the preparation of the majority of Caltech undergrads, in an attempt to fulfill Tau Beta Pi's role as the sole academic honor society.

Professors Sabersky, Wood, Corcoran and Martel are faculty advisors for the Caltech Chapter, while Professor D. S. Clark, Director of Placements, is Tau Beta Pi National President. The society looks forward to the possibility of much activity through the interest and efforts of the 400 to 600 Tau Beta Pi alumni who are concentrated in the Southern California area.

Debate

Nick Zabitchuck and Kermit Kubitz represented Caltech at the Fall Championship Speech Tournament held at California State College in Los Angeles on December 4 and 5. In debate Zabitchuck and Kubitz compiled a record of four wins and two defeats while beating teams from Loyola, UCLA, Pepperdine, and the University of Arizona.

In individual events Zabitchuck participated in impromptu and extemp, while Kubitz competed in oratory. Zabitchuck was awarded a Certificate of Excellence for his record in impromptu.

Caltech's overall debate record now stands at 36 wins and 34 defeats for a percentage of .514.

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BY S. GALLEY

FATHER GOOSE
Beverly Theatre
Radio City Music Hall

What would you do if you were a defrocked professor of history turned slovenly bum cruising around New Guinea in an \$18,000 motor launch? Suppose that it was World War II and you couldn't give a damn about the fate of the world, just so long as it left you alone. Also pretend that an old friend of yours tricked you into His British Majesty's service as a Jap-plane spotter on a small tropical island, marooned with eight women.

If that doesn't fit your style, try supposing that you're really Cary Grant pretending to be the above-mentioned bum, that one of the women is Leslie Caron pretending to be a frustrated young spinster, and that the other women are really schoolgirls pretending to be schoolgirls.

Big Bad Cary

As Grant squares off against his umpteenth leading lady, who will soon be identified with by feminine moviegoers everywhere, he finds himself in exactly the above situations. Slovenly, dirty-shaven Grant is a strong change from debonaire, clean-shaven Grant, but his writers still put those fantastically good one-line jokes into his mouth, as in **Charade** and **A Touch of Mink**. And Miss Caron—considering she is limited by a less exciting role—does as well as Miss Hepburn did in the former, and considerably better than Miss Day did in the latter.

At any rate, the suspense in **Father Goose** is only deep enough to remind me of the Saturday-afternoon army movies on TV, except that here they are in color.

And as for comedy, the snake-bite incident and Elisabeth's ankle-turning are nearly classics. All in all, it's a good uncomplicated show to take a date to (once it comes to reasonably priced local theaters) — and be sure to pay attention to the song that accompanies the credits.

The window to the world
can be covered by a news-
paper.

BY JOHN ROUSE

A beautifully executed performance of Richard Wagner's **Das Rheingold** was presented by the USC Opera Theater last Friday night at USC's Bovard Auditorium. One could hardly believe that the cast and orchestra were non-professional, as there were so few flaws.

This was the opening performance, the first time in a long while that a student group has attempted a Wagnerian opera. Because anything written by Wagner tends to be very difficult to present, I was prepared to be satisfied with even a so-so job. A particular difficulty of **Das Rheingold** is that it is over two hours long and is presented without a single break.

An Understandable Opera!

I was rather surprised as the singing was in English rather than the original German. However, the translation was smooth and wasn't at all irritating. The English presentation had the advantage that people who didn't know the story could pick it up, even though the singers were often drowned out by the orchestra, as happens all the time with Wagner.

I was also surprised at the audience. As a rule, Los Angeles audiences tend to interrupt performances with loud applause. This audience just paid very close attention — people were perched on the edge of their seats through most of the performance — and kept quiet until the end, when they went wild. The cast made eight or nine curtain calls, and people stood up and cheered.

Fun and Games

The opera opens with a long, deep, undulating prelude, suggestive of waves on the Rhine. As the lights dim out, ripples are displayed on a semi-transparent screen across the front of the stage. The action starts with the Rhine Maidens swimming about in the river, when the dwarf Alberich appears and attempts to seduce them.

After a chase around the stage, a shaft of sunlight illuminates the Rhinegold, a lump which the Rhine Maidens watch over, and which has the magical property that anyone who forswears love can forge the gold into a Ring which will give the wearer the power to conquer the world. Alberich forswears love, seizes the

(Continued on page 5)

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TECH Debt

(Continued from page 1) month.

To make matters even worse, an estimated earnings and expenses report soon afterward revealed that, even operating at minimum expense and cutting all possible corners, the **Tech** could not hope to break even on just a single year's operation, and the debt was destined to grow even larger.

Economy Kick

These facts, when reported to the ASCIT Board, caused a major uproar and a crash program was immediately begun to put the **Tech** back on its feet financially. The four major steps in this campaign were 1) the raising the yearly subscription rate from \$2 to \$3 for students and from \$3 to \$4 for others; 2) the obtaining of \$800 from the Institute to cover the **Tech's** actual costs in printing and distributing copies to all faculty members each week; 3) an expanded effort to obtain more local advertising; and 4) a comprehensive belt-tightening in every phase of **Tech** activity.

In addition to these steps ASCIT tightened its own belt and began a concerted effort to divert as much money as possible to paying off the **Tech** debt as rapidly as possible. This has caused a good deal of hardship in other ASCIT activities, notably the social program and in the yearly grants ASCIT could make to various activities. All these factors have finally combined, however, to eliminate the **Tech** debt and put the newspaper on a sound yearly operating basis.

The size and seriousness of the debt can be better appreciated when compared to the **Tech's** total income. While the original debt was about \$3,500, the **Tech's** total earnings for the last fiscal year were only \$7,800, and its total expenses about the same. Due to the increased revenue and an increasing volume of advertising, the **Tech's** expected profit was about \$150 for this year. As advertising increased even more than expected (the **Tech** has been issuing six and eight page papers consistently this term), it is quite likely that this figure will be exceeded by a considerable amount.

With its present sources of revenue, the **Tech** should now be able to operate at a moderate profit for the next few years, hopefully accumulating enough of a surplus to keep its bills paid despite the time lag in advertising payments and to pay for some needed equipment and repairs. Hopefully the **Tech** should be in good shape for several more years until rising costs of printing, etc., eventually require another rise in subscription price or advertising rates.

Frosh Dinner Forum Back

BY DICK TEZAK

Due to the efforts of Wes Hershey and the YMCA, Caltech frosh will have an unequalled opportunity next term to meet a number of outstanding campus personalities under informal conditions and in a leisurely atmosphere. At a series of planning sessions held last week, and ad hoc committee of approximately sixteen freshmen, under the general direction of soph Norton Greenfeld, set January 8 as the tentative date for the first of a number of weekly Frosh Dinner Forums.

Scheduled every Friday evening at 6 p.m. in Chandler, the forums are open free of charge to all frosh, as well as any interested upperclassmen. The purpose of this program, according to Greenfeld, is "to acquaint freshmen with people whom they wouldn't ordinarily meet during their career at Caltech, and to give them a greater understanding of the kind of work being done here."

Three-Part Program

The evening program at each forum will be divided into three

parts. During the first part of the program, a guest speaker will deliver a short address, lasting about half an hour. This will be followed by dinner, during which frosh will have time to discuss whatever they found intriguing about the speech. After dinner, students will be free either to leave for other engagements, or to stay and visit with the speaker.

Feynman, Vogt to Appear

Drs. Richard Feynman and Rochus E. Vogt have already agreed to address the forum, and should prove to be top attractions. Others invited to speak include Dr. Linus Pauling, on the subject of "War and Peace"; Dr. James Bonner, professor of biology, on "The Origins of Life on the Earth and Other Possible Forms of Intelligent Beings on Other Planets"; Dr. John Weir, associate professor of psychology, on "Learning to Live With Your Sexual Frustrations"; and Dr. Jesse Greenstein, on "The Life and Death of Stars."

In past years, the Frosh Dinner Forum has been received with a considerable amount of enthusiasm. In 1962 it extended over

both first and second terms, and met Wednesday evenings. Although rather poorly attended, last year's program featured many outstanding guest speakers, including Dr. Rudolph Moessbauer.

Aimed at Frosh Interests.

"In contrast to past years, this year's program was planned by freshmen and for freshmen," stated Hershey. "It will hopefully give them a chance to hear about the things they are most interested in. Everyone planning to attend must sign up in advance through their House, in order to transfer their evening meal to Chandler. They will receive \$1.35 credit for anything on the menu."

"Since the forum will fall on Fridays rather than during the middle of the week, there should be little conflict with studies," Greenfeld pointed out. "It will break up early enough not to interfere with other Friday evening events. And the forums should provide a welcome change from dining in the Student Houses."

THE CALIFORNIA TECH Statement of Finances as of December 3, 1964

ASSETS

Cash on Hand

Bank Balance \$227.77
Undeposited
Checks 210.75
Petty Cash 37.77

Accounts

Receivable

National Ads 1236.04
Local Ads 412.26
Alpha Phi
Gamma 54.00
Student's Day 55.00

Total Assets \$2233.59

LIABILITIES

Accounts Payable

Bickley Printing
Company \$1084.79
Crown Photo
Engravers 60.19
Alvin's Photo
Supplies 135.65
Ad Commissions
National
(agency) 410.00
Local
(agency) 38.00
Business Mgr.
(national
& local) 415.21

Salaries

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Frosh Poll

(Continued from page 1)

the other. The system chosen second was that of four choices with a definite preference for one House. This was followed by a system with only three choices required, with no preference among those three (as in present system).

The freshmen generally approved of the idea of Initiation as they did Rotation. One hundred thirty-eight of those questioned liked the idea of Initiation, 120 approved of the way it was conducted, and 141 thought it should be continued. In two separate questions an equal number of students, 122, enjoyed Initiation and thought it helped unify the class in each House, as well as develop class and House spirit.

Disagreeable

Questioned on the various aspects of Initiation and its roughness, only 17 frosh thought Initiation in general rough. Fourteen did not like the waterfights, 11 disapproved of the frosh stunts, ten were against showering, and

18 thought other aspects unreasonable.

Due to this overwhelming support of the present system of Initiation and Rotation, the IHC does not plan to make any drastic changes in either procedure. There is, however, a change possible in the way the final selection of the Houses are made by the freshmen.

More Off-Color

(Continued from page 1)

The soccer team placed eight men on the All-Conference team, including honorable mention. Wade, Trishuk, Cline, Kerdemelides, David, and Innes were the varsity players; only two jayvees were selected — Hunsaker and Moretti. However, there are still a few more openings on the teams since soccer season doesn't end until after vacation.

Hugh Maynard won the Coaches Cup in water polo, and Mike Baskes was honored by his selection as first-team All Conference goalie.

A Pome

BY F. MECHANICS

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More Rheingold

(Continued from page 2)

Ring, and plunges into the depths, leaving the stage, which had been lit with a soft blue-green glow in pitch darkness.

Valhalla Appears

In the darkness, the orchestra's music slowly changes from the motifs of The Ring and Renunciation of Love to the majestic Valhalla theme. The stage is lit to reveal a ledge far above the Rhine. Across the river is the newly-built Valhalla — the castle of the Gods. Wotan and Fricka are sleeping on the ledge. Fricka awakes Wotan, and immediately lights into him for promising the two giants, Fafner and Fasolt, the goddess of youth, Freia, in return for the construction of Valhalla. The Gods are dependent upon Freia's apples in order to retain their eternal youth, so they can't very well give her up.

At this time Freia runs in, pursued by the giants. The costuming of the giants was magnificent: they wore one-foot stilts, and very thick, shaggy clothes, so that their bodies were reasonably proportioned. They had long,

rough hair and look very giant-like indeed.

Where's the Golden Fleece?

Wotan tells the giant that they are not to have Freia, and calls Loge, god of fire and treachery, to help him. Loge enters, dressed in a brilliant red-orange cape and with a head of red-orange hair that stuck out in all directions. He tells the giants of the Ring which Alberich has forged and is using in subterranean Nibelheim to amass a fortune. The giants agree to gold as a substitute, and Wotan and Loge descend to Nibelheim to fetch the gold.

The descent is portrayed musically, while scenery is shifted. In Nibelheim, we find Alberich wrenching the Tarnhelm, a magic hat which allows the wearer to assume any form, from the dwarf Mime, who made the hat. The setting is glowing and gloomy; there are thick clouds on the screen, and coals glow in the background. Alberich, donning the Tarnhelm, disappears, and Loge and Wotan enter and question Mime. Alberich then returns driving a horde of Nibelung slaves, carrying sacks of gold.

He finds the intruders, and they challenge his power. To impress them, Alberich changes himself into a dragon. Loge is properly frightened, but then craftily asks if Alberich could turn himself into something small, as this would be useful for escape. Alberich obligingly turns himself into a toad, and Wotan steps on it. When Alberich reappears, Loge ties him up and they cart him back to the real world.

Then there is another interlude to portray the return from Nibelheim, and we are back above the Rhine on the ledge. For ransom, Alberich is forced to yield up all of the gold, including the Tarnhelm and the Ring. Alberich places a curse on the Ring and disappears back into the depths.

Fasolt Gets It in the End

The giants return for their payment, and the gold is stacked up. The giants force the surrender of the Tarnhelm and demand the Ring, but Wotan refuses to yield it. The giants then prepare to take Freia for good, but Erda, the primeval mother-wisdom, appears and warns Wotan to yield the Ring. This he does and immedi-

ately the giants fight for it, with Fafner killing Fasolt, and then leaving, dragging the booty behind him.

To clear the air of all of the previous unpleasanties, the storm-god Donner swings his hammer and calls a thunderstorm. When the storm clouds break, a rainbow bridge is revealed joining the ledge with Valhalla. Loge sees only destruction in this Godly pomp, and refuses to enter Val-

halla, but the other Gods cross, to the Rhine Maidens' laments and the motifs of Valhalla, the Sword, and the Rainbow.

Well Worth the Price

The orchestra was generally good, although there were a few flubs here and there, which can't easily be avoided in a live performance. The voices of the cast were not as strong as Wagnerian opera requires, but this was only

(Continued on page 8)

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SPORTS

Frosh Hoopsters Win Two

BY LES FISHBONE

Coming through both times in the second half, the Caltech frosh basketball team emerged victorious in its first two games of the year last week. In a 74-72 squeaker against UC Riverside, it was the hustling efforts of forward John Frazzini and guard Mike Evans that brought Tech back from a ten point deficit; the game against Rio Hondo was close until the frosh finally cracked Hondo's zone defense, and won 64-43.

UC Riverside

Tech and UCR were both running through the other's pressing defense, with the result that the half ended with the Beavers behind 36-34. The final period saw the imbalance increase until center Terry Bruns knocked the frosh out of their doldrums with a tremendous tap-in. Evans and Frazzini did fine defensive work and scored on steal after steal, while guard Jim Stanley spurred the offense with elusive, twisting

layups. Finally, when the score was tied and only 15 seconds remained, backcourt man Carl Fink scored on an easy drive to ice the game.

Rio Hondo

The zone defense of Rio Hondo seemed to mystify the frosh for an entire half, though a one point advantage was maintained. In the final period, Tech settled down and started moving the ball, resulting in many shots for Stanley and Frazzini. Bruns did yeo-

man work under the boards, while Evans again sparked on defense. When Hondo switched to a man-to-man, a fluid offense exhibited by the Beavers put the game out of reach.

In both games, the frosh showed scoring balance, with four and three men in double figures, respectively. The pressing, fast-breaking defense, though ragged at times, will probably prove to be a very potent weapon.



By J. K. Evans

Let's Stop Playing Conference Football

BY J. K. EVANS

Although the Beavers finished the football season on a positive note with a fine game against CHM, the shadow of the Oxy debacle still looms. At the time, I made a suggestion which has aroused some interesting comments. Before the whole thing slips our minds, I want to continue the discussion.

I said that Caltech has no business playing conference football against opponents that win by scores of 70-0. I still believe that. I also said a few other things (which I also still believe) regarding which more information has been made available since I started causing trouble. More on this in a minute.

Anonymous Faculty Members

It has been pointed out to me that my previous article could be used by certain people (whose names I won't mention because I don't know them but whose initials are "Faculty Members") as proof that the student body at Caltech wants to drop football.

This is ridiculous.

At no time did I suggest dropping football. No student I know wants to drop football. And there are a lot of students who would like to see football and other sports receive a little more emphasis, or at least a little consideration of their existence.

There are, however, people who would like to get rid of football at Caltech, and some are pretty influential. It is a constant battle to keep these anti-athletes from gaining the upper hand and reducing Caltech to a sterile brain factory which produces hordes of little men with sliderules and

thick glasses and toothpick necks. Heaven forbid that anything I write should give any encouragement to these forces of evil.

We want football. Let's get that straight once and for all.

The Forces of Good

Fortunately, there are some good guys on our side, men who feel that a man who enjoys physical activity should be given every chance to play in any sport in which he is interested. One leader of the forces of good is Dr. Corcoran, chairman of the Faculty Athletic Committee.

Dr. Corcoran is all for sports at Caltech. He believes that as long as there are enough men to man a team in a sport, CIT should have a team in that sport. Men who want to play should be allowed to play.

But you've got to want to play.

If you don't want to play, there is no point in wasting money on you, outfitting and coaching you. No sportsman, player or fan, likes to see a team lie down and die at the first sign of adversity.

Outclassed

This is why all this uproar started. It is hard to keep fighting for all you're worth when you are being slaughtered through no fault of your own, but simply because your opponent is too good.

It takes real guts to get up off the ground for no other reason than to get knocked down again. But if you're going to play football, you have to do it.

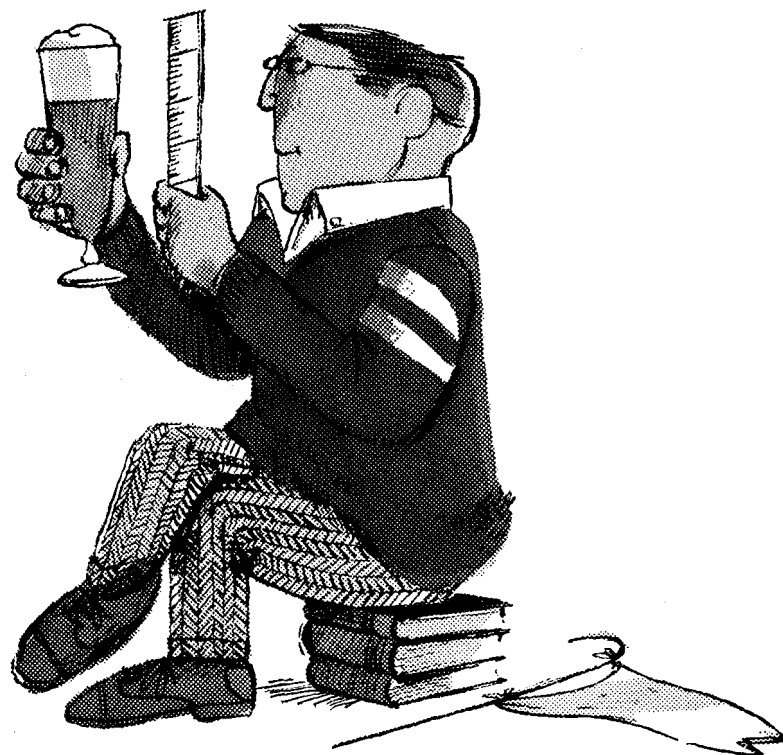
Right here is where Dr. Corcoran and I part company.

Sure, taking a beating builds character. I just don't think it is necessary to take so many beat-

(Continued on page 8)

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Wrestlers Impressive Swimming Prelims Held In First Two Matches

Caltech started its wrestling season off on a high note last week with two excellent performances. Although one match was lost, the opposition was supplied by a team of much higher caliber than has been expected.

The wrestlers opened their season against Biola nine days ago, shutting them out by the score of 38-0. Since this is Biola's first year of varsity wrestling, Tech's victory is not really very surprising; however, such a lopsided score is certainly gratifying, as each Caltech wrestler won his match, and all but one pinned their opponents.

Long Beach State

Following this overwhelming victory, the team traveled to Long Beach State last Friday evening in search of more able competition. They found it, and then some, and Long Beach won 20-9.

Originally, Tech was to wrestle the junior varsity team; instead, the Beavers competed against an older and more experienced team, largely composed of Long Beach State's varsity. In spite of this, the wrestlers held their own against a superior team and kept the outcome in doubt until the final matches. Three Beavers managed to win against Long Beach — Jim McWilliams, Frank Fujimura, and Andy Kampe.

Team Members

This year's wrestling team has several new men, in addition to the returning members from last season. The men comprising the team and their weights are as follows: Larry Gorbin, 123 lbs.; Frank Fujimura, 137 lbs.; Dave Faulkner, 147 lbs.; Jim McWilliams, 157 lbs.; Russ Crenshaw, 167 lbs.; Howard Powell, 177 lbs.; Tom Wilson, 191 lbs.; and Andy Kampe, heavyweight. Back again as coach is Mr. Pete Merringer.

The impressive start of the wrestling team should be an indication of a very successful season.

Fleming, Ruddock, and Ricketts completely dominated the Interhouse swimming preliminaries last Tuesday afternoon at the Alumni Pool. However, Lloyd must still be reckoned with in the finals this afternoon, as their

favorite events did not have preliminary heats.

While Fleming appears to be the eventual winner, second place could go to almost any House since only three events required the trial heats. All together there

are six individual races, two relays, and a diving competition in the three day meet.

Each of the three events required three heats due to the large number of entries; the 50-yard freestyle was swum first, followed by the 50-yard backstroke, and finally the 100-yard freestyle. Qualification was based on the fastest eight times so that swimming in a fast heat did not pose a disadvantage. Strangely enough, Fleming had the fastest qualifier and Ruddock came in second in each event.

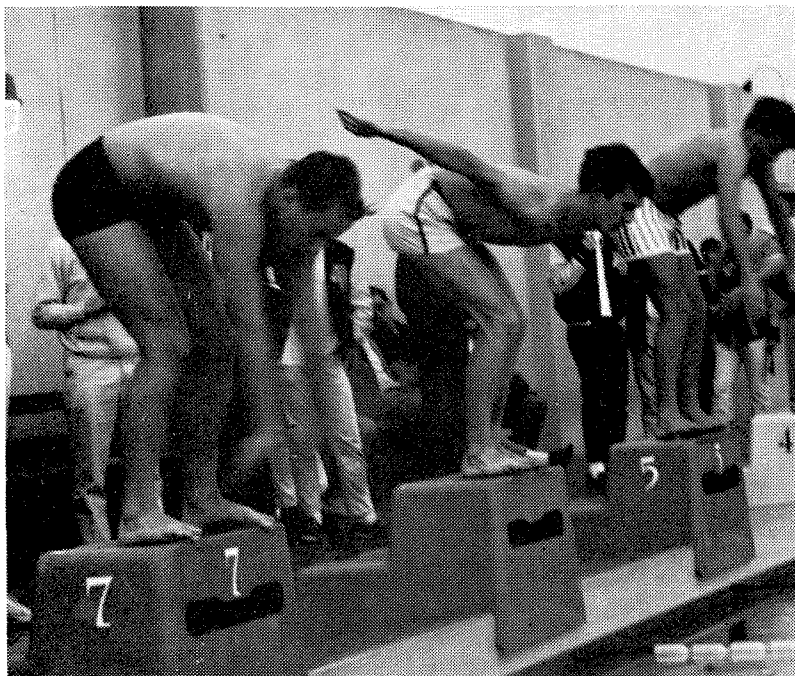
Fleming

Ralph Kimbrell of Fleming had the best time in both freestyle events, clicking off a 25.2 fifty and a 58.2 hundred. Two of his teammates qualified in the latter event, Sterling in fourth place, and Kubitz in eighth. Three more Flemes made the finals in the backstroke, as Stephens (33.3), Haver, and Davidheiser wound up with the first, third, and eighth best times. Altogether, Fleming qualified seven men, even though two were in eighth place.

Ruddock

Ruddock did better than had been expected, thanks to three

(Continued on page 8)



Swimmers poised ready to start the 50 yard freestyle during the Interhouse Swimming preliminaries.

Tech Alumnus Given Award By Magazine

Each year since 1956, the Presidents of all the colleges and universities in the nation receive an invitation from *Sports Illustrated* to nominate one of their alumni for the Silver Anniversary All-American Award. This award, symbolized by a trophy in the form of miniature silver goal posts, is made to 25 men in the United States, who as seniors earned their varsity letter in football 25 years ago, and who in the 25 years since have distinguished themselves in their chosen fields of life and in national and community service.

Big Don

Caltech's nominee this year, Don L. Walter '40, was among the final twenty-five men selected for this award by a panel of nationally distinguished citizens. Don lettered two years in football, two years in basketball and three years in track. In 1939 he was the football captain, was awarded the Wheaton trophy, which is presented each year to a member of the varsity football squad on the basis of sportsmanship, moral influence and scholarship, and was named on the All-Conference Football second team.

Don, who is one of the country's leading experts in rocket and advanced propulsion systems, is Vice-President of the Marquardt Corporation, General Manager of the Power Systems of Marquardt, and serves on the Board of Directors, in which he has had membership for eight years.

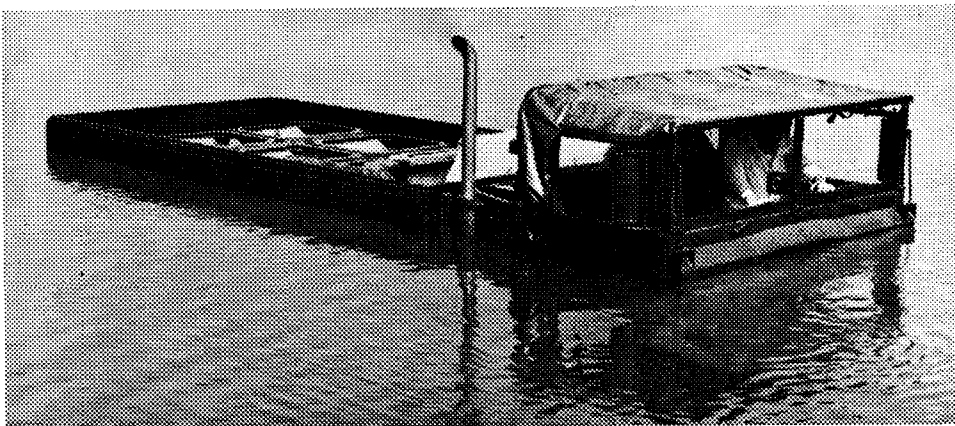
Tech always wins

Caltech is proud of the honor accorded to one of its former athletes, and to other alumni previously honored. In the past seven years, Caltech has nominated five men and all of them have received this award. Previous winners include Dr. Robert Sharp '34, Chairman of the Division of Geological Sciences at Caltech, who was selected in 1958; Wallace Johnson '35, President of Up-Right Scaffolds Division of Up-Right Inc., Berkeley, in 1959; Frank Davis '36, Vice-President and General Manager of the Fort Worth Division of Convair, in 1960; and Frank Jewett, Jr. '38, President of Vitro Corporation, New York, in 1962.

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More IH Swim

(Continued from page 7)

placers in the 50-yard freestyle. Ken Brown in second place, Tom Greenfield in fourth, and Tom Williams in seventh gave the men from the Northeast reason for optimism. Brown finished six-tenths of a second behind Kimbrell as the result of a tremendous turn. Doug Brutlag upheld the honor of Ruddock frosh everywhere and gave Mel Stephens a good race in the backstroke, but had to settle for second place, a full second behind. Brown easily won his heat in the longer freestyle event, but could not come close to Kimbrell's time.

Ricketts

Ricketts matched Ruddock in qualifiers with six, but only accumulated two thirds, two fifths, a sixth, and an eighth. Both thirds were in the freestyle events — Boone in the 50 and Gharrett in the 100. Boone fell to a fifth-place finish in the 100.

Out of a possible 24 places, Fleming, Ruddock, and Ricketts accounted for 19. Dabney had a third, fourth, and sixth; Blacker

finished with a sixth; and Lloyd managed to get only a seventh. On the basis of the preliminaries in three events, Fleming would have 26 points, Ruddock 18, Ricketts 13, Dabney 8, and Blacker 1.

Rouse Bubbles On

(Continued from page 5)

to be expected. But they were quite adequate — fortunately Bovard Auditorium is not terribly large. For the overall performance, this crew deserves a big, healthy cheer.

Anyone who is a Wagner fan should get down to see this — there are two more performances: one tomorrow night, and one Sunday night, both at 8 p.m. Tickets range from \$3.50 to \$1.50. You can reserve tickets and pick them up there, or just buy at the door. If you buy there, though, go a little early, as I bet that the next two performances will be well attended. To get to Bovard, take the Harbor Freeway to Exposition Blvd., and Exposition to Hoover Street, where you hang a right. The guard who stops your car will give you further instructions.

More Evans

(Continued from page 6)

ings to build just as good a character.

I think our football team deserves a chance to win once in a while.

Conference Loyalty

Dr. Corcoran is loyal to the conference. This is understandable, since he has been chairman of it and has behind him a long association with other members.

I have no such loyalty. I believe that the conference exists for the good of the members and that when it ceases to serve, any obligation to it is at an end. I do not feel it necessary to sacrifice CIT football players so that the rest of the conference can have one more game on their schedules. Tech does not exist for the good of the conference, but rather vice versa.

Being in a conference does have its advantages. Scheduling is easier (it appears that football in Southern California is played to win, not for the fun of it; it seems that if the school is too small to have winning teams, it drops football, as Azusa, S.C. Col-

lege and Cal Baptist have done) and there are conference honors to compete for.

Small Schools?

The SCIAC was originally an organization of small schools in which academics were to take preference over athletics; there were to be no recruiting, no athletic scholarships, no preferential treatment of athletes. At the risk of bringing the wrath of authority down on my head, I take it on myself to say that nobody but Caltech has held to the spirit of the agreement. The letter, yes, but not the spirit.

This is the point: in no other sport but football is this a major consideration. CIT teams do not often win in baseball or basketball, but they are not humiliatedly beaten. In some sports the Beavers do quite well, such as swimming and water polo.

Other Conference Sports

Dr. Corcoran seems to feel that if we leave the conference in football we should leave it entirely. I say that this is not necessary; I say we can still have all the benefits of conference membership in other sports without the humiliation of being conference whipping boy in football, and I

say that this will not harm the conference.

After the Oxy debacle and my rabberousing, the Athletic Council met to consider the Football Situation at Caltech. It could have done any of a number of things, recommended a preliminary study of conference opinion on our leaving, for instance. But the Council took the typical Caltech attitude.

The Athletic Council did exactly nothing.

Give Football Scholarships!

Confidence and morale cannot be built on a hand-to-mouth existence. If we want to stay in the SCIAC, we need a team that can hold up its head; more precisely, we need a team that will allow faculty members to hold up their heads when accosted by colleagues from other institutions that commonly beat the daylights out of our teams.

If we want to give football players preferential treatment, light study loads, and labs that don't conflict with practice, then we can stay in the conference.

But we all know where that leads.

Let's get out of the conference in football.

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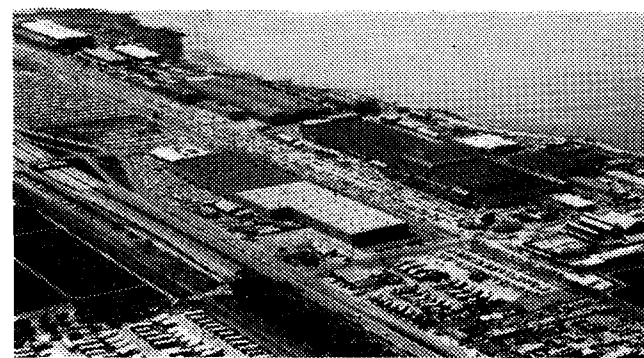
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