

The California Tech

Associated Students of the California Institute of Technology

Volume LXI

Pasadena, California, Thursday, January 21, 1960

Number 14

In YMCA Discussion

Latter, Press Favor A Policed Test Ban

BY TOM TISCH

"The Soviet scientists at the Geneva talks on the nuclear testing plan did not act strictly according to scientific beliefs. Their attitude was, 'We understand what you say, but we refuse to agree with you.'"

Thus said Dr. Albert Latter of Rand Corporation in a discussion with Dr. Frank Press of the Caltech Seismology Lab and about 20 students Monday evening in the YMCA lounge.

Both Press and Latter were members of the U.S. negotiating team at Geneva. Latter is noted for his co-authoring with Dr. Teller of the book, "Our Nuclear Future."

Questioned about current negotiations, Press said that the U.S. is asking for 180 detection stations and 100 random inspections of measured disturbances—to see whether they are natural or man-made.

Press and Latter both emphasized that this number was insufficient, but that the U.S.

should stick to its guns with these figures and make the Russians meet us.

U.S. tests have shown that using Rand's "decoupling technique" blasts up to 100 kilotons can be disguised as natural disturbances.

No longer do we have any reason to believe that Russian weapons are inferior; we cannot afford, then, to give any advantage to the eastern powers.

Is Latter definitely in favor of a test ban? Yes, is the answer, providing there are adequate methods for policing the ban.

Press, likewise, is in favor of a nuclear test ban—at least an above-ground test ban—if it in no way endangers the security of the U.S.

Press raised the point that perhaps the U.S. does not want to give up its nuclear weapons. The West must remember that, man for man, it is no match for the East. Presently, tactical nuclear weapons are the answer.

Latter and Press both felt that a test ban treaty would eventually come if the U.S. sticks to its guns. It is, hopefully, also the first step toward a peace settlement.

Questioned about the wisdom of an unilateral ban on the part of the U.S., Latter and Press agreed that it would be suicidal for the West. For then the Russians could continue testing, favorably in the light of world opinion, and build a commanding lead.

There is no question, apparently, but that the U.S. must press for a test ban treaty. Eventually, in the light of world opinion and political pressure, it will come—perhaps a first step toward peace.

Applications Due For Camp

Applications are now being received for counselors at the 1960 New Student Camp. The deadline for applying Monday is January 26.

Counselors will be selected before the election and appointments in February and third term so that, according to ASCIT president Tom Jovin, no charge of ex-official appointment will be possible.

Thirty counselors will be chosen by a committee of seniors who were present at the 1959 camp.

In particular, Jovin hopes that present off-campus undergraduates will submit applications.

To apply, one should put his name on a slip of paper, indicate his desire, address it to Tom Jovin, and place it in the J-box of any House or Lower Throop.

Dance Everybody

The Folk Dance group will meet in Culbertson at 7:00 p.m. Sunday.

Wanted: More Volunteers To Move To New Houses



Bill Rowe and friend from Pasadena vice squad count cash at Tech casino party. The cops won.

V-Squad Raids Tech Casino; Flem, Throop Sharks Snagged

BY LEE MOLHO

Dice were rolling and poker chips flying as the Fleming-Throop casino party continued wildly along Saturday night. A bottle of champagne sat on the baker's table and a few \$1,000 (monopoly) bills lay on the traditionally dirty Throop Club floor.

The ball dropped into 00 with a sharp click as a couple of grubbily dressed (and obvious) plainclothesmen sidled into the "gaming hall." They walked up to the table boldly marked "bank" and plunked down a quarter in front of the banker Jim Morehead.

"We want some chips," said one.

"Like that (pointing to the quarter) isn't legal tender here," smiled Morehead. "This is just a social game for prizes."

"Well, we'll look around."

They returned to ask from where the equipment had come. Quickly, "You'll have to ask Ronald Dawson about that."

They wandered over to a random table and tapped a player on the shoulder. He laid down his full house.

"Are you Ralph Dawson?"

"Yes."

"This is the vice squad. All this is illegal."

"Oh."

The bold minions of the law proceeded to stop the games and gathered up all the poker chips and monopoly money as evidence of wrongdoing. Morehead and Chuck Radoy shuddered as they saw the fuzz preparing to abscond with the gambling equipment for which they had mortgaged Fleming. At the last minute they decided that some chips and a few million dollars would be sufficient.

60 Off-Campus Applicants Sought

Demand for rooms in the three new Student Houses is falling far short of the figures predicted by the New Student House Committee report. Sign-up lists, open since Monday morning, showed only 81 names Wednesday noon with room for almost 100 more.

Around 60 off-campus students who indicated in a poll last term that they desired to live on campus next year have as yet not signed one of the lists and only 27 people have volunteered to move across the Olive Walk from one of the present Houses.

Dr. Robert Huttenback, Master of Student Houses, urges particularly that all off-campus students who want a room should sign one of the new House rosters in his office before tomorrow afternoon.

The light demand from present off-campus students has made it impossible for Huttenback to make any attempt to determine an ideal distribution of classes among the seven Houses and to draw quota lines determining the maximum and minimum numbers who must enter or leave any particular class in any particular House.

It is still hoped that enough people will volunteer to move so that the present Houses can return very near to their designed capacity next fall with the only doubles being the present large doubles.

The desired distribution is that each House should have an equal number of students from each class. Should there be more than a 15 per cent deviation from these figures when the lists close tomorrow, Huttenback will ask each of the present Houses to furnish whatever number of people necessary to regain balance.

Huttenback hopes that present House members will co-operate by volunteering so that no House will be forced to draw lots to decide who moves. (Present juniors would be exempt from any such forced move.)

Also, any grad students desiring a room in the undergraduate Houses next year should sign in the Master of Student Houses office before tomorrow afternoon. Present graduate applicants total 14.

Cut back to 15 minutes before the raid. Throopers Lynn and Hardy skipped a deal and went over to a Greasy telephone.

"Say I saw a game session over here with some poker chips and cards and a roulette wheel..."

"A ROULETTE WHEEL!"

"Yeah, sure."

"Meet us at the corner of Hill and California."

Hardy returned to the scene, passing for a moment to prudently put the champagne away in the refrigerator.

The party continued, but somehow the spirit wasn't there.

Honor Applications Due By February 4

Deadline for Honor award applications is about two weeks from today. Each applicant should turn in his name and student body activities to Hugh Keiffer, K-box, Blacker.

Two File For Frosh Office

Two candidates have filed so far to contest seven freshman class offices in an election set for next Tuesday. The two are Henry Abradanel for president, and Jim Sagawa for treasurer. Other class offices up for election include vice-president, two Board of Control memberships, athletic manager and secretary.

Incumbent frosh officers: Ron Drwinga, president; Lee Samuelson, veep; Chuck Brooke and Carlos Johnson, BOC; Jim Morrow, athletic manager; Jim Cloutier, secretary, and Sagawa, treasurer, were appointed by the BOD at the beginning of first

term. Tuesday's election will be for their replacements.

Any frosh interested in running for office should either nominate themselves or have someone do it for them. Nominations should be addressed to Dick Norman, and put in the N-box, Blacker, as soon as possible.

Last Chance Set

Last Big T picture-taking session for Throop Club and off-campus students will be tonight from 7:15 till 10 in the Big T office.

Peru Expert Patch To Be AUFS Visitor

Richard W. Patch, member of the American Universities Field Staff specializing in South American affairs, will arrive at Caltech next Monday, January 25, for a nine-day campus visit.

Patch will discuss life in Peru and Bolivia, emphasizing various aspects of the present political, economic, and social conditions of these two nations.

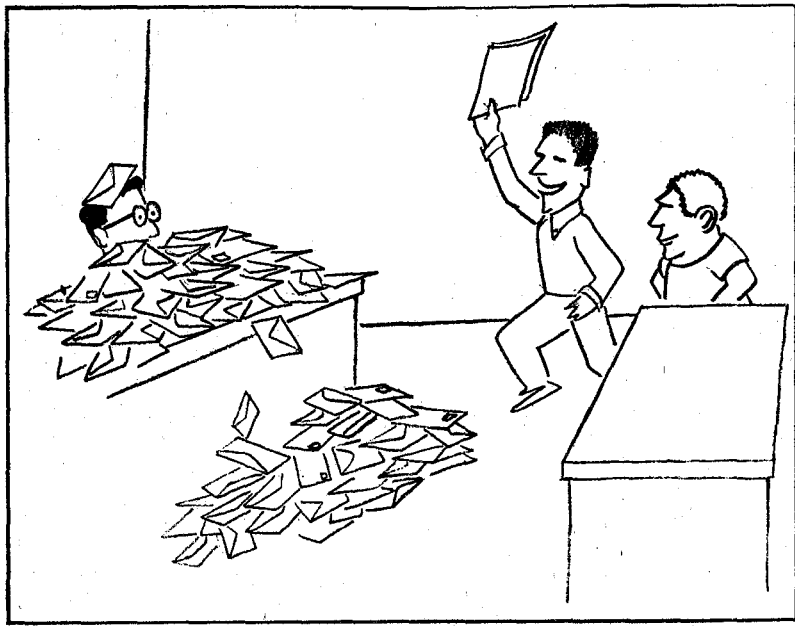
Discussions will center around such topics as the Indian populations of Peru and Bolivia, the economies of the two countries, appraisals of U.S. aid and U.S. trade in the area, and details of revolutions, politics, personalities, etc. Patch plans to bring some short 16 mm. color films of Bolivia.

Patch joined the AUFS in 1957. After a preparatory trip to Spain, he spent 18 months in South America studying and writing about Peru and Bolivia. He returned to the States in the summer of 1959.

Interested readers may obtain information about Patch's schedule from Mrs. Kotkin in the Humanities Office or in the next issue of the California Tech.



Richard Patch



"Hey C.M., here's another one."

Editorial

More On PE

We've made a couple of derogatory comments in the last few months about Caltech's renowned physical education program. As far as we know, everybody pretty much agrees with us. And at last, somebody has started to do something about it.

A petition was circulated recently that called for three things:

- (1) A cut back to the old level in the number of PE days required per term.
- (2) Optional physical education for juniors and seniors.
- (3) Revision of the sickness excuse procedure.

This petition has the overwhelming support of the student body; something like over 90 percent of the people approached have signed it.

The petition received a favorable recommendation from the Student-Faculty Relations Committee and has been awarded the Good Petition Seal by the ASCIT Board. And (best of all) The California Tech adds its well-wishes to the petitioners.

As most of us remember, the EPC studied the PE program last year, took a poll, and made its recommendations to the Athletic Department. The parts of the program attacked by the petition are NOT, however, the result of the EPC's work.

The EPC recommended required PE for only three years. They said nothing about increasing the number of days necessary. They also recommended organized instruction in various sports—something that was definitely needed and that has been well received.

But the other changes made in the program have more than offset the value of the classes. The new excuses procedure accomplished nothing. And the increase in the days required is really bad. There is just not enough time in a week of labs, afternoon classes and job interviews to fit in three hours of PE.

Good luck, men. Hope you can get your ideas accepted.

Letters To The Editor

Loyalty, Cheers, Hi-Fi

• A Reply

Editor, California Tech

In last week's California Tech you printed a letter deploring the "antics" of one of the members of Caltech's Yell Squad. I don't intend to defend myself, as I don't think I'm a particularly good cheer leader, but I would like to say something about the support such self-satisfied people as "Embarrassed" have been giving our athletic teams.

Last year, for the first time,

the Pep Band, a sub-organization of the Caltech Band, traveled to away basketball games. During the season, I happened to ask one of the players if this made any difference to the team. His reply was emphatic: the boys in the band scream, clap, yell, toot and cheer. When the team is on the court they don't really hear what's going on in the stands, but they are always conscious of the vocal support — so much so that lack of it affects their play.

This year the Yell Squad de-

ecided to attend basketball games in order to organize some sort of support (only one leader will attend away games). At Claremont, in a tight game, the disgrace was not that an awkward cheerleader led a "juvenile" cheer during a time out, but that a good-sized Tech crowd was sitting practically lifeless in the stands while the Stags, without the nucleus of band or cheerleader, were receiving active vocal support and closing the gap.

In the December issue of "Engineering and Science," Brad Efron dug several editorials out of "Throop Tech" deploring this same type of thing. I guess it hasn't changed except that somehow we've even lost the voice deploring "Really Care."

If the Men of Tech want good teams playing "alive" ball, and good Yell Leaders, let them give us some support. When someone who can do a better job than I (and I'm sure many many can) and is willing to come out and try, I'm just as willing to step aside.

DOHN SHILDKRAUT

• Me, Too

Editor, California Tech

I was quite surprised by "Mr. Embarrassed's" attitude expressed in his letter about Dohn Shildkraut's cheer at the CHM game. It has been my experience that this cheer is very popular everywhere else, and I don't see why it should be otherwise here.

Perhaps Dohn and I are the only ones who are proud to be from Tech. If this is the case,

(Continued on page 3)

Stealing Is Topic Of Second BOC Article

BY BOB THOMPSON

The purpose of this article of the series is to describe some aspects of the problem of thefts on the Caltech campus.

Although stealing of various articles does occur, the most common thefts involve cash taken from unlocked rooms. Such a theft usually occurs in the early morning hours or during the evening meal, and the money is taken out of a wallet left on a desk or in a pair of trousers lying in the room. In some cases a very short time, as little as five minutes, was available in which the theft took place, and in a few cases the rooms in question were locked. Particular alleys were noticeably hit harder than others, and there is a discernable weekly pattern to such thefts where they occur in sufficient number within a limited period of time.

The beginning and end of first term and the end of the school year are the worst times for stealing, and there is reason to suppose that at least some of these thefts are the work of people outside the Caltech community. In regard to other statistics, the average amount taken per theft is approximately \$25. The total amount which the present Board has statistics on covers the last two years of thefts, and the amount lost to date is approximately \$2500, including a theft of Hi-Fidelity equipment valued at \$1500.

It is felt that in view of this situation a certain degree of prudence should be observed by students; money should not be carelessly left around in open rooms, nor should articles of value be carelessly left around campus.

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Staff Assistant to VP Engineering

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The California Tech

Published weekly during the school year by the Associated Students of the California Institute of Technology, Incorporated.

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Member of The Associated Collegiate Press
Second Class postage paid at Pasadena, California
Printed by Bickley Printing Co.
Represented nationally by National Advertising Service, Inc.
Subscriptions: \$1.00 per term, \$2.50 per year. Write: Circulation Manager, The California Tech, 1201 East California Blvd., Pasadena, California.

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Letters To The Editor

(Continued from page 2)

Dohn's critic has every reason to be embarrassed.

JMC.

● Still Another

Editor, California Tech

Recently in the California Tech, "Letter to the Editor" column, I witnessed one of the most repulsive sights ever. Far worse than the poor editing or the even proerer advertising was the letter written by an anonymous student, "Embarrassed."

He probably would have liked to rephrase the cheer he quoted into the following:

We're from Tech,
No one could be more ashamed.
If you don't believe us,
We'll let the cheer leader yell by himself.

We're from Tech,
No one could be more embarrassed.
If you don't believe us,
We'll crawl under the stands.

We're from Tech,
No one could be more juvenile.
If you don't believe us,
We'll write a letter to the Tech and tell it to the world.

I am reasonably enthusiastic about the articles in the Tech, and I will do my part to defend them. But this letter — in fact all such slanderous, unsigned letters — can only be described as juvenile.

God.

● Sorry

Editor, California Tech

After reading Pierre Sundborg's column of last week, I decided to go to the Hi-Fi Show and use the line suggested for getting in good with the demonstrators. I went to the Dynakit room and said, "I'm delighted to see that you modified your stereo cartridge along the lines I suggested in my letter of last year." The exhibitor then told me to my face that I was p...k. I would be very grateful if Mr. Sundborg, in the future, would reveal what additional letters he writes so that I might impress the exhibitors even more next year.

ALLEN BERNSTEIN

● Loyalty Oaths

Editor, California Tech

Last week the Tech — to be precise, Moler—spoke out against the "Loyalty Oath" requirements of the National Defense Education Act. Elsewhere in the country, a vocal minority seems bent on a rather hysterical condemnation of these same provisions. I think it's time the opposition made itself heard.

Under the NDEA, the citizens of the United States make available to students the privilege of taking out low-interest loans, with special attention being paid to prospective teachers (who are effectively given up to 50 per cent of the loan as a scholarship), science students, and so forth. In return for this privilege, the students are expected to assume a responsibility—the responsibility of loyalty to the people and government that made possible their education. If this loyalty is betrayed by those who would destroy our government by force and vio-

lene or other illegal means, then certainly the betrayers should be punished. It is in order to ensure punishment—not loyalty—that the controversial section of the Act was written.

Opponents of the Act say that this provision singles out college students for persecution. They say that it imperils academic freedom; that no oath can insure loyalty; that the terms of the oath are too vague anyway.

They forget that privilege entails responsibility. Certainly when General Motors offers a scholarship it has every right to insist that the person taking its money will not seek to destroy the company by illegal means. They do not — although one certainly could support their right to do so — insist that the recipient refrain from seeking to destroy the company through legal means, e.g. fair competition. Is this not precisely the government's position?

They forget that the purpose of the oath is not to insure loyalty, but rather to exclude the disloyal or punish them if they lie to obtain government funds. They forget that there is no academic freedom to betray the people of the U.S. Certainly there is nothing vague about a desire to illegally overthrow the government.

They say that the oath is ineffective, forgetting that perjury is easy to prove, while other laws that might cover this crime have proved ineffective in the past.

They say that colleges are forced to require an oath in order to distribute their own money, forgetting that the colleges are enabled to increase nine-fold the effectiveness of most funds, and still—if they wish — keep "non-loyal" money for their own use. They also forget that the colleges can borrow the matching funds from the government if they so desire.

They say that the promise to support and defend the laws of the U.S. is tyrannical because it would force them to obey the

unjust laws of a possible future American dictatorship, forgetting that until such a dictatorship, by the neglect of the American public, is allowed to come to power the law is not tyrannical, and that if such a thing should occur the breaking of two laws would be no worse than the breaking of one.

Finally a call is made to the colleges of American to refuse to administer the funds available under this act because it is oppressive, unfair, and stifling; the simple fact is that there is no coercion of those who choose, for reasons of their own, not to sign the affidavit and oath, while the rejection of funds would be oppressive, unfair, and stifling to those who need the money and are not only willing but also proud to sign.

If Caltech students, under the skillful prodding of "The California Tech" and the "Y's Beaver," are going to become vitally interested in current affairs and dash off mail to Washington, may it be suggested that they would do well to take a couple of weeks to do some reading on related subjects first? An evening with "600 Million Chinese," by Robt. Guillain, or "What We Must Know About Communism," by the Overstreets, might leave you with a few second thoughts about the desirability of giving Communism every opportunity to establish itself here. Those who are worried about the "excesses" of the Un-American Activities Committee might be a bit surprised if they took the time to read a few of the hearings of that committee (see humanities library). Also try "The Naked Communist."

Most Techmen pride themselves on the fact that they would not support or ridicule any scientific theory until they had done a bit of reading and checking on it. Yet these same people, as soon as they hear the cry of "Civil Liberties!" and see the parade forming, are quick to join the crowd and parrot the things they hear. Why not show a bit of this vaunted Tech non-

**BRIGHT LIGHTS . . .
COFFEE . . .
. . . AND SHOES**

by griffen



Last Saturday night, Throop Club had a party. A casino party with roulette wheels, card tables and acey-deucey. It was a good party. At 11:00 p.m. (it was definitely 11 because Sergeant York had just come on) two men wearing brown shirts and swastikas on their arms entered the cheerful lounge, which had been made over into a casino and began to knock over tables and stuff play money in their pockets. A girl screamed. The social chairman ran up to the two men and asked for identification, whereupon the smaller one lashed out savagely, producing an obviously phoney police badge. The party was over. The "police" claimed that gambling, even with play money, was illegal in the state of California, and confiscated the rented equipment. Several key members of Throop Club were taken away, and haven't been heard from since. No one has entered Throop Club since the incident because of the heavy guard of brownshirts in the area. A swastika has been found on the side of the synchrotron, which faces the Greasy; a veritable state of siege exists in the

conformity and do a little reading and thinking before becoming a parrot?

LARRY McCOMBS
JOHN TRENHOLME

* * *

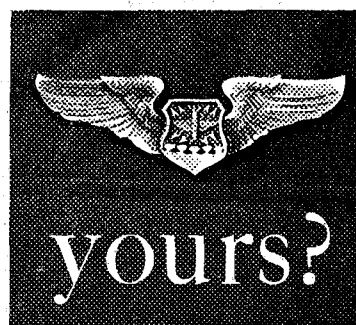
(The opinions expressed in this column are not necessarily those of the California Tech Editorial Board.)

(All letters to the Editor should be turned in, typewritten, double-spaced, to the M-box, Ricketts, before 8 p.m. Monday. They should be signed, but names will be withheld upon request.)

northeast corner of the campus. (re-printed from the Pasadena News.)

It has occurred to me that life is too short to do all the bad things that we constantly lose the opportunity to do in our every-day world of make believe. Now take one Yasha Yelinsky of Ricketts fame, who makes it a point to be as consistently obnoxious as possible and loves it. There is a happy man — he has found the secret of doing the worst possible things in the shortest possible time. Also, there is Cleve Moler who questions the decisions of Congress and the New Student House Committee, and please, let's not forget the editors of Little k who have now for what seems like infinite weeks never failed to do their

(Continued on page 4)



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Professor Reviews Literary Milestone

BY ROBERT ALLEN
Visiting Professor of English

The current issue of "Totem," from its arresting cover and well-designed title-page to the poem which comes last, is worth anyone's 35 cents and an hour of anyone's reading time. It exhibits a generally cheerful skepticism and an interest in the subcutaneous that quickly inspire confidence in the maturity of its purpose, and although there are occasional inadequacies in writing technique, almost every piece comes off, in one way or another.

Almost half the issue is devoted to Bob Wax's story, "Mill Creek," which tells of a mountain hike taken on his vacation by a veteran of World War II, who is seeking freedom from his war memories and the dull loneliness of the life he habitually lives. The story of the hike, the man's becoming lost, and his desperate sense of isolation is essentially linear in spite of a few flashbacks, and the most exciting parts of it deal with his physical struggle for survival. His sense impressions are recorded with engrossing persuasiveness, and Mr. Wax is at his best when he is conveying experiences of eye, ear, and touch, of warmth and of pain. What happens to the inner man is less clearly presented. The story leads the reader to expect either a clarification of the hiker's psychological state or a moral illumination of some kind, perhaps both. Both are hinted at, but to your reviewer at least, neither comes quite clear. Nevertheless, Mr. Wax has written a story of unusual narrative excitement and the reader is not likely to put it down once he has begun.

YOUNCE'S LETTER

In "The Letter" Geary Younce contributes a delightfully unpretentious record of the consciousness of a young man made restless by emotional voids within himself that he only partly understands. The principal voids are created by the non-presence of a girl and the non-arrival of a letter, but there are obviously others. The young man finds it difficult to concentrate on a theoretical lecture, for example, but as he walks under a street light he observes, not without interest, that "a red object in blue light appears black, as there is no red light present for it to reflect." The world of sensory experience is worth understanding if it is his sensory experience. Throughout the story we have glimpses of the feelings which intrude on the world of sense and intellect in which the young man is trying to live and we are skillfully brought to sympathize with his stalwartly borne frustrations. The language used in the short bits of interior monologue is not always plausible, but this does not spoil the effect of a sensitive and well-conceived sketch.

ABOUT TECHNIQUE . . .

The other prose piece in this issue of "Totem" is a short monologue, entitled, "And Incidentally . . ." which would be more effective if the monologist had

been equipped with a personality in which one could believe. Its author, Lance Taylor, in trying to make his point vividly, seems to have got hold of a technique that he could not quite handle.

The two poems are highly successful in their very different ways. Mario's "Remories No. 1" makes one hope that he has a suite of these tone-poems lying around somewhere and that eventually we shall have "Remories No. 2." (Or is this a hopeless expectation, like Channel No. 6?) Mario has a fine sense of the auditory texture of his verse as well as a keen eye for visual detail, and he knows how to make full use of the created personality whom he uses as a speaker for his lines. Of the unfinished last sentence of the poem it can only be remarked that if it is the result of a printer's error, the proof reader should be shot at sunrise. If Mario planned it so, he is guilty of a mannerism not at all in keeping with the kind of control he has exerted elsewhere.

KIEFFER'S SYMBOLISM

In the other poem, "Plus Remorse," Hugh Kieffer takes not unkindly leave of a world in which sense triumphs over thought, self triumphs over soul, and miracles are no longer possible. Mr. Kieffer's frequent use of ellipsis does not make for easy reading, but it produces the intensity that always goes with compression and it makes the reader look hard at the symbols. (At one point in the poem Mr. Kieffer says, "I have no symbolism." Do not take this seriously. He has lots of symbolism.) The verse moves with a rush that carries the meaning over or through the grammatical elements that are left out and the same insistant tempo injects energy into the mood which is being established. Without taking itself too seriously, the poem manages to be subtle, amusing, and serious. "Totem," I should think, could use more verse of this quality if the editors could lay their hands on it.

Bright Lights

(Continued from page 3)

utmost worst with the few pieces of leftover paper from the honorable President's swimming pool. And, last but not most significantly not least, we must not fail to pay tribute to the friend of the athlete, Coach Sheep, or Ram, if you prefer, who every day does his best to do his worst.

Positive Bias

The Hi-Fi Show, Or, Stereo Thru Sore Ears

By PIERRE SUNDBORG

The 1960 High Fidelity Show has come and gone, leaving a wake of groans behind. My impressions of the show, which I share with many of the exhibitors, are primarily negative. Some of the participants with whom I talked were quite verbose in their gripes.

One of the most knowledgeable men in the business, Skip Weshner of KRHM's "Accent on Sound" fame, told me that he wouldn't be surprised if this is the last hi-fi show in L.A. He listed several reasons, of which the primary were: the expense involved for the exhibitors, the "far out" location of the show, the prevailing high background noise level in the supposedly soundproof booths, and the strong suspicion that people really don't decide on anything at the show, anyway.

I suspect that the Skipper was right. The show costs the exhibitors a lot of clams. The

Dynakit rep told me that they were spending \$3,000 to put on their relatively modest exhibition. Two show officials complained that public attendance was somewhat disappointing. Apparently fewer people drove to the spacious Pan-Pacific than came to the crowded Biltmore last year. I suspect that the show's location had a lot to do with this.

And, man, it was noisy there. The "soundproof" booths weren't. The University people put a ceiling of 2-in. fiberglas on their room, but even that didn't help much. On this score, the 1957 show at the Ambassador Hotel was much better, as each company occupied its own separate little cottage. The background noise was much lower, and listening was possible. The Pan-Pacific was a flop, soundwise.

My guess is that next year will either see a move back to the Ambassador or total cancellation of the show. Several past exhi-

bitors, such as Klipsch and Weathers, didn't even join up this time. The show can be a valuable thing, but not as it was run last week.

Well, here are some comments on what I learned at the show. I'd welcome letters from those of you who went to the show and disagree with me or have something to add. (See Letters to the Editor for a first installment.)

The AR folks had trouble. The amplifiers they were using, McIntosh, if I remember correctly, were putting out more distortion than music. AR did have lots of information sheets on their new models, though, so it wasn't a total loss.

Audio Fidelity's demonstration was the highlight of the show, as usual. AF used 12 Jensen speaker systems, six on each side, to put a lot of sound into their room. They played a good variety of records, most of

(Continued on page 6)

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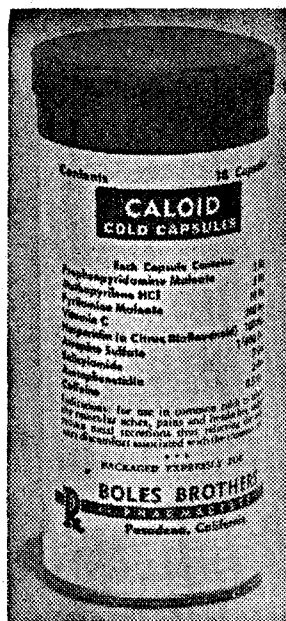
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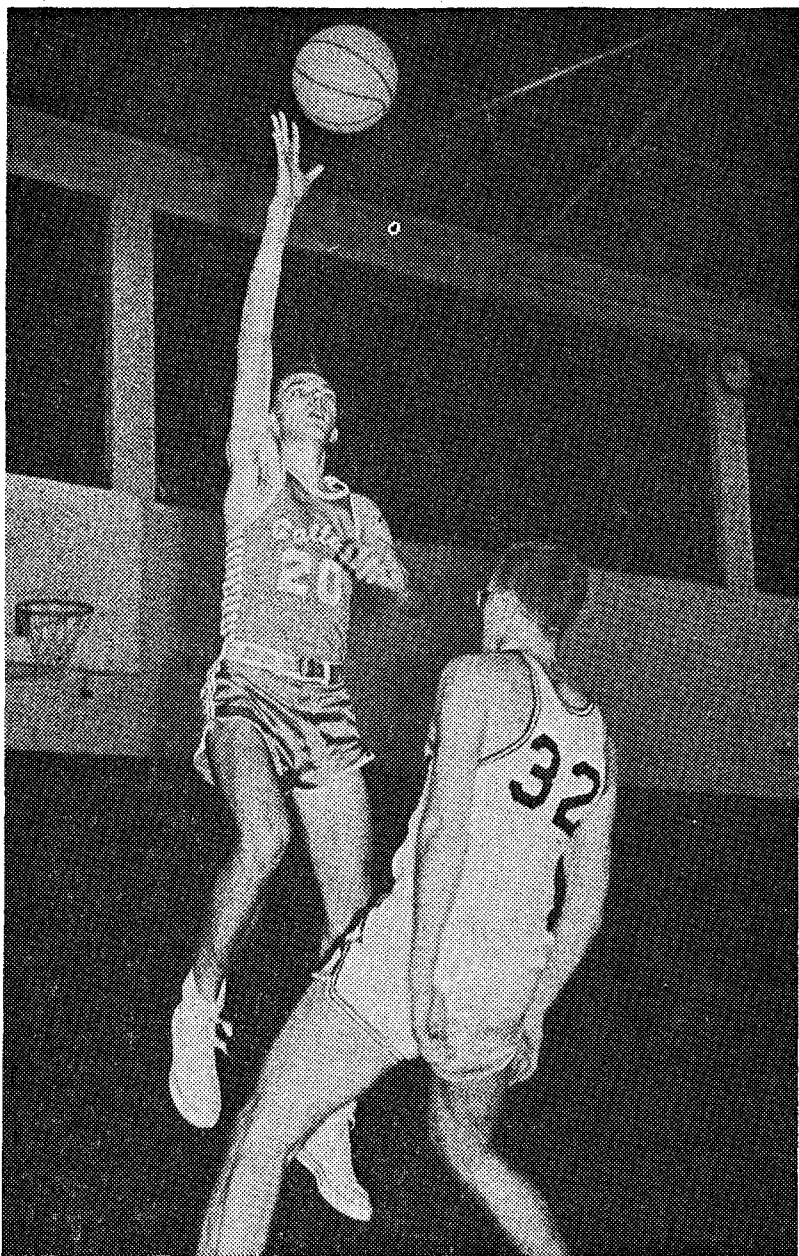
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Caltech's Len Maley leaps high over Pomona defender, George Zwerdling, to score two in what turned out to be a lost, though close, Beaver cause.

Cal Poly, Pomona Beat Tech; Oxy, Whittier Loom Ahead

Friday, Saturday and Tuesday loom as big days for the Caltech basketball team as the Beavers face two conference foes, Oxy on Friday, and Whittier on Tuesday, plus the Beavers' previous victim, La Verne, on Saturday.

The week-end games are at Caltech, while the Whittier game is away.

Occidental has been hot and cold this year, depending on the ability of their two guards, Murphy and Oates, to stuff through the points. When either of them are cold, Oxy usually loses.

Whittier has the same tall, experienced squad that won them the conference crown last year, led by Mason, Hooks and Johnson. The Poets lost only

one guard from their starting team last year. Whittier has not, however, jelled quite as effectively as expected this season, having lost last week end to Redlands after blowing a big half-time lead.

CAL POLY WINS—74-57.

A tall, mobile forward wall paved the way for a 74-57 triumph by Cal Poly Tuesday on the Beaver hardwood. Leading by a scant 27-24 at halftime and by only 44-40 with 15 minutes to play, the rangy visitors piled up a huge bulge on the Beaver reserves in the waning minutes of the ball game.

Again topping the scoring column for the losers was Fred Newman with 22 points. A surprise starter for the first time

this season was veteran guard Mel Holland, who was a regular last year but has seen limited action this campaign. With Holland in replacing Larry Brown, the starting lineup showed four seniors and one sophomore.

The visitors from Pomona fielded a quintet averaging well over six feet with a 6-8 center and a 6-6 forward that were too tall for the Beavers. Coach Gene Rock elected to give his reserves some action in the exhibition tilt and went about 15 minutes exclusively with reserves in the game.

EDGED BY POMONA

The Beaver basketballers lost a heart-breaking 66-65 contest to

(Continued on page 6)

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Frosh Sneak Past Pomona, LA Pacific

The Caltech freshman basketball team continued its impressive season last week by nabbing

two wins. The little Beavers came from behind to down Pomona, 58-54, last Friday, and then traveled to L.A. Pacific last Saturday to ruin the hosts home showing, 58-46.

After a rough and ragged first half, the Beaver frosh finally found themselves against Pomona, and squeaked through with a win. Tom Bopp provided the big offensive push, canning 20 points, while Dave Barker looked good both offensively and defensively at his guard spot.

The freshmen's weakest spot, defense, provided a big scare during the first half, as the Beavers let the Sagehens score almost at will. Barker and sub forward Les Tomley looked like the only men on the team who had ever played defense before.

After intermission, however, the Beavers worked their way out of the doldrums, and with about 10 minutes left to play started pulling ahead. Immediately before the end of the game Pomona nearly mustered a winning comeback, but the Beavers had too big a lead and too much determination for the Sagehens to overcome.

Interhouse

Tennis Wars Set for Sat.

Interhouse sports begin anew for the term this week end as teams from all five Houses enter the Interhouse tennis tournament. The match is scheduled for Saturday, with all three singles tournaments and the doubles tournament scheduled coincidentally.

Rules of play will be the same as last year, with each match consisting of 12 games, the winner of each division being the man with the most game victories.

The winning house is determined by the composite standings of its entrants.

Pre-tournament favorite has to be Blacker, with a nucleus of seniors, headed by Bob Thompson, representing lots of ability and experience. A close second to Blacker is Dabney, with a solid experienced squad. Dark horse of the tournament is Troop, which is relying on a battery of freshmen, including two high school lettermen.

Individually, the best player in the tournament will almost certainly be Ricketts' John Walsh, last year's first singles winner.

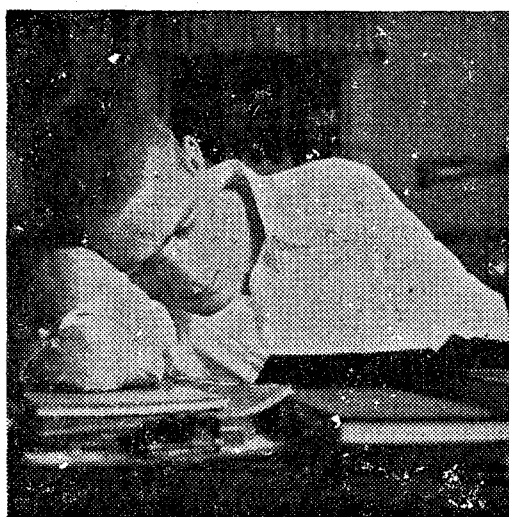
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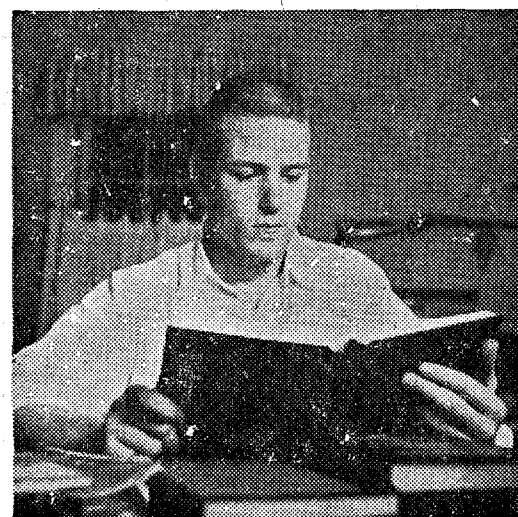


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Interview Sked

THURS., Jan. 21—Atlantic Research, U.S. Bureau of Public Roads, Bendix Radio, IBM-Applied Science, Lockheed Missile, Lockheed Electronics.

FRI., Jan. 22 — IBM-Applied Science, Lockheed Missile, Lockheed Electronics, Vehicle Research.

MON., Jan. 25—General Telephone of California, Ethyl, Hughes Aircraft, DuPont.

TUES., Jan. 26—Hughes Aircraft, Stauffer Chemical, DuPont, Public Health Service, Hamilton Standard.

WED., Jan. 27—DuPont, Hamilton Standard, Pacific Semiconductors, Aeronutronic, Hewlett Packard, University of Chicago Labs.

THURS., Jan. 28—Union Oil of California, Westinghouse, Space Technology Labs.

FRI., Jan. 29—Union Oil, Westinghouse, STL, NASA (Edwards and Moffett), Kobe.

Positive Bias

(Continued from page 4)
which sounded superb. The live recording bit was interesting, but didn't prove much. Sidney Frye, president of the company, was his usual charming self and did much to make the exhibit a triumph.

Fairchild decided not to use sound with their exhibit. After all, what could they demonstrate sonically, since their turntables are designed to be quiet. I did pick up one bit of pleasing information. Fairchild will soon be out with a low-cost turntable, something to watch for.

High Fidelity Records passed out 45 records for free. Unanimous opinion: Their sonic value is likewise zero.

KLH had a nice exhibit and just about the best sound at the show. I was impressed with the large number of KLH's being used by the other demonstrators. Those little boxes put out a lot

of beautiful sound. My considered opinion is that KLH has AR beat for sound, although not for Madison Avenue ads.

James B. Lansing, of course, was excellent. Their exhibit showed a lot of thought and preparation. They had pre-recorded music, excellent speaker placement, and many information books. The big Ranger Paragon was the best sounding speaker I heard. If you read the following, keep it quiet, as I promised not to tell: JBL will have on the market in two months a 15-inch Acoustic Suspension speaker, similar in design and purpose to their now famous LE-8. Probable price: \$120. Don't say I told you.

Dynakit's FM tuner is still in the prototype stage and won't be on the market until December. Sigh!

It was gratifying to see Heathkit at the show. They've been

fighting it for three years. Besides all the hi-fi gear in their new catalog, they showed prototypes of two new pieces, which should be of interest. One is a stereo preamp, somewhat simpler than the SP-2, which will sell for \$34.95. The other is a stereo amplifier, 14 watts per channel, for \$45.95. These will be out in March.

I was favorably impressed with Shure's new M7D stereo cartridge. It sounds as good as the M3D but sells for less than \$25. The only disadvantages of the M7D are lower compliance and higher tracking pressure. However, it's well suited to use in a changer, and a bargain at the price.

My votes for this show:

Best exhibit: Audio Fidelity

Best sound: JBL

Worst sound: Philco

Most interesting: the 32-inch speaker

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Richard Burton

Basketball--

(Continued from page 5)

the Pomona Sagehens last Friday. Caltech got off to a very slow start, not making their first score until Pomona had countered 10 points.

The Beavers trailed throughout most of the game, at one point by 18 points, until, about two-thirds the way through the second half, a series of quick baskets by Maley, Newman and Noll pushed the Beavers even, and then past, the Sagehens. With four minutes remaining, the Beavers held a 63-58 edge.

Pomona immediately switched to a full court zone press on defense, which shook the Beavers up enough to hold them to two points in the last four minutes of play.

Caltech had several opportunities to win the game in the last minute, but couldn't capitalize, as the team missed several medium distance jump shots.

High scorer for the game was Roger Noll with 17 points, who had switched from his normal forward post to play center in the place of Ron Arps, who had to miss the game due to illness. Fred Newman was close behind with 16 points.

The major difficulty the local varsity had was, as in previous games, a poor shooting percentage. The Beavers best scorer, Newman, connected on only two of 22 attempts from the field.

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