

Musicale Stripped of Equipment

by E. Burner Pontius

Last Thursday night, all of the stereo record equipment was taken from Musicale. Someone made off with two turntables, two speakers, an amplifier, and a pre-amp, sometime between 6:00 p.m. and 12:00 p.m., while most Techers were off-campus eating Thanksgiving dinners. The lost equipment, valued at between \$300 and \$400, was not covered by insurance, and the Pasadena police were not optimistic about its recovery and return.

The Musicale listening room, a small room opposite the Glee Club office beneath Fleming House, was entered through the door and not through the windows, the Pasadena Police speculate. The door and lock

were intact when the loss was noted; it is believed that south campus master keys have fallen into the hands of non-student no-goodniks.

Musicale's extensive and expensive Classical Music record library is still intact. Luckily, each record jacket was marked and stamped. Hopefully, Musicale will soon be in business again.

Thefts do occur at Caltech. The Caltech community is prey to outsiders who take advantage of the trusting atmosphere the Honor Code provides. A few measures will help protect not only Institute and club property but also your own:

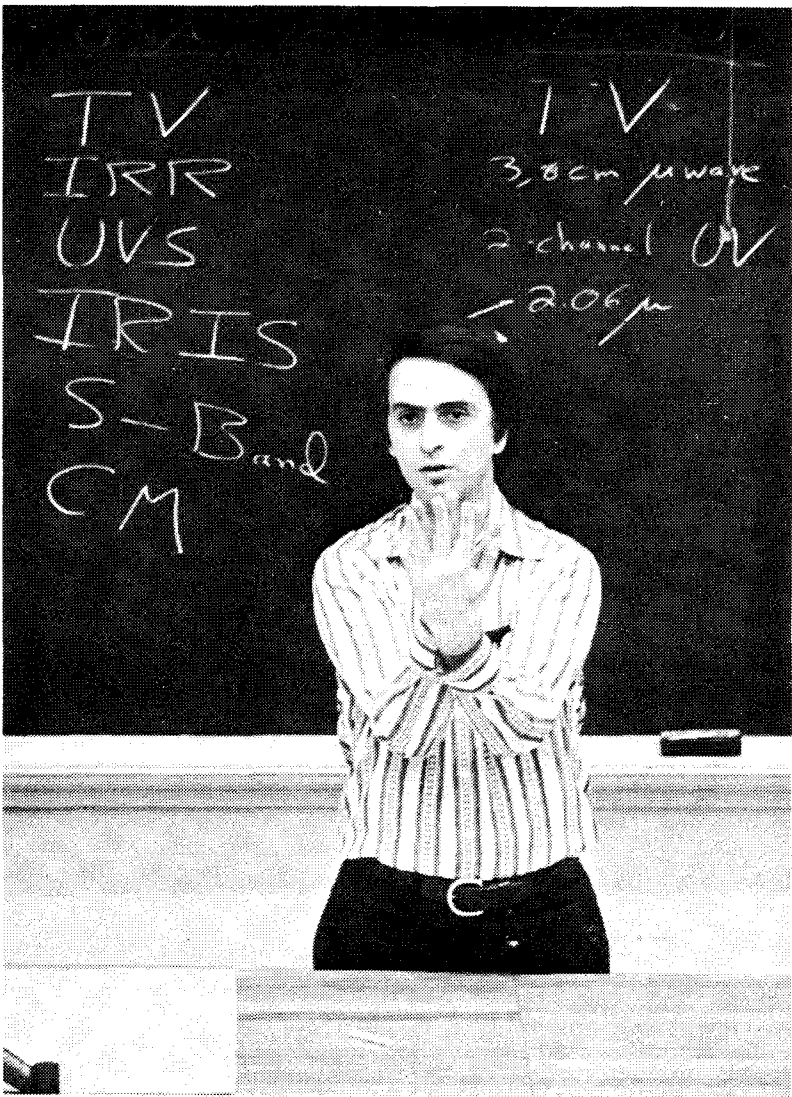
Do's and Don'ts

1. Keep an eye out for outsiders.

It can't hurt if you take a cordial interest in what a non-Techer is doing on campus, especially if he's in the wrong place at the wrong time. I'm not advocating being suspicious, just observant.

2. Report all personal thefts promptly to Campus Security and the Pasadena Police. Even though this sounds like an unnecessary suggestion, many Techer lose bikes and other belongings and don't bother to report the theft.
3. Most important—record the serial numbers of valuable possessions. If a stolen object's serial number is listed with the Police after the theft, there is a good chance the item will be returned.

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Carl Sagan demonstrates the eight-fold way to Martian physicists — Photo by Mariner. **Sagan on Mars**

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Whomp!

Reaction Vessel Explodes in Church

by Phil Neches

An explosion rocked Church Lab over the Thanksgiving weekend. Fortunately, nobody was injured by the blast early Saturday morning; however, three windows were broken, a door pushed out so violently that plaster on the adjoining wall broke, and a lab bench, formerly bolted to a wall, unceremoniously unbolted.

The explosion, in the lab of Bill Beranek, a chemistry graduate student, caused an estimated \$500 in damage, and caused a small fire among his books and papers. Safety officials estimated the force of the blast as the equivalent of roughly one-half pound of TNT.

Out to Eat

Bill was working late Friday night, and left his lab at about midnight to go out to eat with some members of Fleming House, of which he is Resident Associate. The explosion occurred while he was away, at an establishment fortuitously named "Lucky Boy."

Beranek said that the explosion probably resulted from overheating in a constant-temperature oil bath in which he was conducting his experiment. The oil bath was heated by an immersed coil, and kept on a magnetic stirrer. Bill speculated that the overheated oil may have caused his reaction vessel to rupture, atomizing the oil into a mixture

unluckily just right for combustion. The experiment had been running continuously for a month prior to the explosion without mishap.

Freakish Blast

The effects of the blast seemed freakishly distributed. Although the magnetic stirring unit was understandably demolished, other bottles

in the same fume hood were unbroken. The lab bench and door which suffered damage were on the other side of the lab from the explosion, with desks and rows of shelves between them and the explosion, yet no bottles on the shelves were broken. A delicate

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ASCIT Bylaws Changes Are All Defeated

All five proposed changes of the ASCIT bylaws were overwhelmingly defeated by 206 voters in Tuesday's balloting.

The measures dealt with an increase of restrictions regarding appointment of BOD, BOC, and Excomm members to faculty committees and various ASCIT administrative arms.

A 2/3 vote was needed for passage of each amendment, but only the first was able to achieve a slight majority, with six more voters in favor than those opposed. The other bills failed with support ranging from 24 to 42 percent.

The individual results:

(Change) Maximum of two BOD members to one BOD member on Excomm. **Yes: 91 No: 85 Abstain: 30. Failed.**

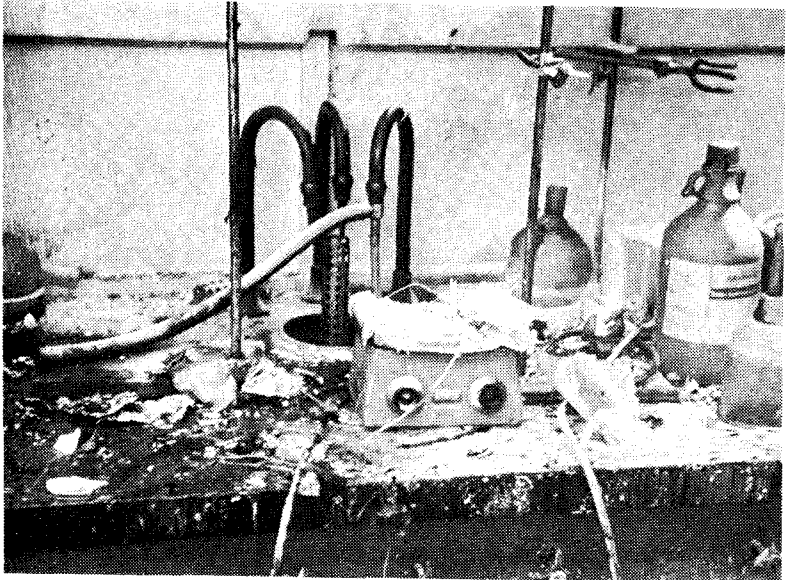
(New bylaw) No BOD or Excomm member to serve on BOC as appointee. **Yes: 63 No: 112 Abstain: 30. Failed.**

(New bylaw) No ASCIT member may serve on more than one faculty committee, except in case of vacancy. **Yes: 78 No: 107 Abstain: 21. Failed.**

(New bylaw) No BOD, BOC, or Excomm members may serve on a faculty committee, except in case of vacancy. **Yes: 41 No: 131 Abstain: 34. Failed.**

(Change in previously proposed bylaw) Only BOD members would be restricted from serving on a faculty committee. **Yes: 42 No: 110 Abstain: 54. Failed.**

(Note: results unofficial until approved by BOD)



NOT AS BAD AS IT LOOKS — Although last Saturday's explosion demolished this magnetic stirrer, no one was hurt and damage was small.

Ge 1X on the Moon?

Leon Silver Receives NASA Medal

Dr. Leon T. Silver, Caltech professor of geology, has received the NASA Exceptional Scientific Achievement Medal for investigation of lunar samples and the training of Apollo astronauts in geologic science.

NASA Administrator James C. Fletcher presented the award at Houston's Manned Spacecraft Center in ceremonies attended by Apollo 15 crewmen Dave Scott, Jim Irwin and Al Worden.

Scott and Irwin worked closely with Silver for 15 months in preparation for their historic exploration of the moon last August. Silver has also taught geology to crews of Apollos 13, 14, and 16.

The medal carries equal recognition of Silver's scientific contributions "in the development of highly precise isotopic compositions of uranium and lead in minerals and the application of these age determination procedures in the analyses of lunar material."

Silver, who also worked the science backroom at Houston during Apollo 15, is one of seven Caltech faculty member who have taken part in the analysis of lunar samples. The others are Drs. G. J. Wasserburg, Clair C. Patterson, Arden L. Albee, Donald S. Burnett, Samuel Epstein, and Hugh P. Taylor, Jr.

areas undergo seasonal change. The fact that a dust storm can exist on so huge a scale gives credence to the theory that these changes are brought about by light particles being blown over the neighboring dark areas, and later being swept away. The dust storms occur most heavily when Mars is at its perigee, the same time the features seem to change in a wave going along the equator.

Furthermore, the Mariners 6 and 7 showed Helois, a huge depression, to be apparently crater-free. This was rather hard to explain. There are feelings now that what might have been happening was that Helois was experiencing a dust storm at the time, and that no features were visible through the dust.

There are four mysterious dark circular features which were visible on the Mariner 9 approach pictures. They didn't correspond to any classical features, and the southernmost one seems to have a kind of "wake" after it—as well as being 10 degrees hotter than the air. It's now believed that they are among the highest surface features of Mars, and that the dust avoids them for that reason, and so they are visible.

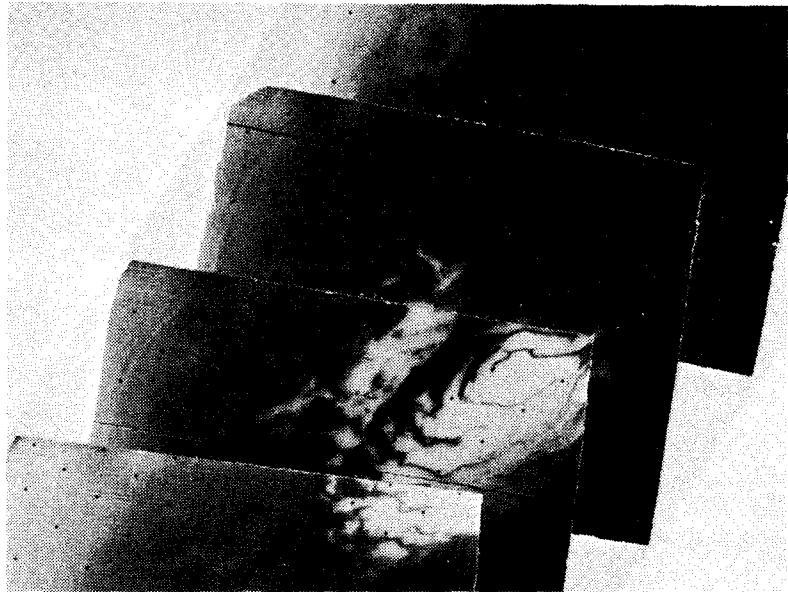
What???

Perhaps the most interesting of all the findings has to do with the two Martian moons. Photographs show Phobos to be more irregular than Deimos—but Deimos has a one kilometer hole in it. Since Deimos is only nine kilometers in diameter, this is a little astonishing. Also most moons contain craters—but the craters are vastly different on each moon, and there is apparently a strong feeling among the people working on the moons' data that they do not have a common origin. Whichever moon proves to have been around Mars the longest, however, will furnish a very good set of control data for determining what has happened to the Martian moons since their origin.

Atmosphere

The infra-red sensors have returned the information that there is a

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This dramatic view of the entire south polar cap of Mars was obtained by Mariner 9 during its fifth orbit of the planet. The cap is about 200 miles in diameter. — JPL photo.

Mariner Photos

Continued from Page One
huge polar atmosphere inversion. Also near the south pole there are tiny features that are clearly due to water. Now that they know how the isotherms run around the pole it

News Briefs

An organizational meeting will be held next Wednesday at 11:00 a.m. in the Athletic Lecture Room, according to baseball coach Edward Preisler. Anyone interested in playing intercollegiate baseball is invited to attend.

Dan Harris Out of Intensive Care

Chemistry 2 trolls will be happy to know that Dan Harris is now out of intensive care. He may be visited at Riverside Community Hospital from 2 to 4 p.m.

Code Class In Language Lab

The Radio Club will hold its weekly code class on Thursday, December 2, at 8:15 pm, in the language lab in Dabney. Newcomers are still welcome.

Verily, It Is Almost Here

Be it known: there are but two weeks remaining until it is once again the birthday of Ludwig van Beethoven.

No Tree Lighting Ceremony Due to Lack of Time, Shaft

Stay in your room and troll!



THE ASCIT FRIDAY NIGHT MOVIE THIS WEEK:

BONNIE AND CLYDE

Starring: WARREN BEATTY and FAYE DUNAWAY
+ the inevitable CARTOONS FOR TECHERS
7:30 p.m. and 10:00 p.m. in

BAXTER LECTURE HALL

Admission: 75¢ for ASCIT members
and their guests; \$1.00 for anyone else
(NOT OPEN TO THE GENERAL PUBLIC)

NEXT WEEK:

TAKE THE MONEY AND RUN

Caltech Forum

Would You Want A Fwy Next Door?

by Joe Hall
President, PCC Ecology Action

Do you really want to breathe another freeway? The freeway octopus is slowly but surely getting a dangerous grasp on Pasadena's environment in the form of the Route 210 extension, now being built above Walnut [Street].

Having questions about the environmental effect of this freeway, which is planned for completion by 1974, I went to the City Community Development Department to investigate their research on what Route 210 was going to do to Pasadena. What they gave me was something called "An Analysis of the Impending Impact of the Route 210 (Foothill) Freeway on Adjoining Land Uses." The report talked about the commercial, industrial, and residential developmental possibilities which may occur as a result of the new freeway. The effects of this new demand on land values and use as related to the location of the freeway and possible zoning changes were also discussed.

Freeway Pollution

The report shows that the general amount of noise pollution depends on whether the freeway is below ground level, on-grade, or elevated. The study does not mention actual qualitative estimates for any forms of pollution resulting

from the freeway. The effects of visual, air and noise pollution are not projected in concrete terms.

One thing that we do know is that a number of freeways are being planned to meet in Pasadena from several different directions. Another thing we know is that as indicated by smog distribution maps, Pasadena is right in a "smog pocket." By building more freeways in the Pasadena area we are encouraging the use of the automobile even more. AS the automobile is responsible for so much of our air pollution, do we really want to bring 700,000 people within fifteen minutes driving time of downtown Pasadena? With the completion of the Foothill and Long Beach Freeways as projected in the grandiose schemes of the Pasadena Community Development Department, this possibility will become an unpleasant reality.

Freeways Cause Crime?

The freeway system is linked with the business expansion of Pasadena. We do not know the effects of this growth will have on the quality of our lives, but the odds are they won't be what we want. I could go on and on asking questions concerning different aspects of this "growth" planned for Pasadena, such as the rise in crime rates due to easy freeway access (See *California Highway Patrol*

Magazine), the destruction of natural beauty (yes, Pasadena has some), the unliveability of the urban freeway environment, the physical splitting of the Pasadena community, and so on. Perhaps I will go into these aspects in future articles.

The main questions still remain. Is freeway expansion progress? Is it the Pandora's Box of problems that the people of this community want, especially those directly affected? Certainly there are much better choices of transportation and development, such as computerized car pools, rapid transit, and cautious development of commercial and industrial areas. If you want to find answers to these questions and determine plans for action, come to the next Caltech Environmental Action Council meeting, Monday, December 6, at 8:00 p.m. in Clubroom One at the Winnett Student Center.

Lab Damaged

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ultraviolet spectrophotometer on the same wall as the door was apparently unharmed.

Fortunately, Beranek said, only his experiment and papers were affected. He shares the lab with three other grad students, including Lois Smith, one of the Ricketts R.A.'s.

Setbacks

At first, Beranek thought the loss of some of his papers would set him back several months, however, he later found that his losses were not as great as they seemed initially, since key papers somehow survived the blaze. Also, many of his papers were in his room rather than in his lab.

Honor System and the PDP-10

by Kirby Dahman
Chairman, Board of Control

With the advent of reliable time sharing system on campus, there also came a problem which soon was widespread enough and serious enough that the Board of Control felt it necessary to examine precisely what relation, if any, the Honor System had to that problem: the misuse of the Institute computing facilities—in particular the PDP-10.

The term "misuse" can be divided into several categories; in each case, the effect of the misuse differs too. First there is the unauthorized use of a professor's or graduate student's account. In many cases, these accounts are funded by grant money from the government or other institutions. When an individual decides to use some time on such an account without authorization, he deprives the researcher of just that much time for his own

work—and the money lost here is real. Closely associated with this kind of misuse is the unauthorized use of accounts paid for by outside concerns, e.g. Occidental College and outside companies. The Institute encourages the use of the computer by outside concerns insofar as they pay for this use with their own money, thus helping to reduce the Institute subsidy for the computing center. Some of the money that previously went toward subsidizing the existing operation can then go towards other research uses. A company or other institution that uses Caltech's computing facilities can hardly be encouraged to maintain such relations if it finds that the very time it is paying for is being stolen by the organization it is paying. If a company then

terminates its relations with the Institute the whole campus community suffers.

A somewhat different aspect of misuse occurs when a student uses an internal system account number, i.e. an account number used by the computing center staff to set up accounts to add or alter systems programs, etc. In this case the time used appears only on internal system records, and no one is charged for the use. Directly associated with this is the changing of systems programs so as to be able to use an account without anyone being billed for that use. Presuming that such actions have been undertaken with enough competence so that no one else on the system is affected, the person who

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FRANKLY SPEAKING

by Phil Frank



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BOC-10

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decides to do this still deprives the computing center of income which it would have received had the person used the system in an authorized manner. As well as this, the person is gaining additional use of the computer which is denied to those who use only that which is gained through legitimate channels. Although not a problem now, use of the PDP-10 is increasing, and a glut of uncharged users could in the future cause considerable slowdowns and delays for authorized users.

It should be mentioned that, despite popular belief, "funny money" does not exist on the PDP-10. "Funny money" is that money which the Institute normally uses to subsidize the computing center (i.e. make up for the deficit in their operating budget) but which it instead gives to individuals on campus in the form of grants for computing time—the money ultimately still reaching the computing center. The dispensing of the "funny money" is reasonable in cases where the computer operates with fixed costs, that is, for example, where it costs no more to operate at 90% capacity than at 30%. For various reasons the financial structure of the computing center does not permit "funny money" on the PDP-10 at the

present time. This situation may change in the future.

This then is the problem. The role the Honor System plays with respect to this problem must still be considered. That the scope of the Honor System is greater than merely its academic application is recognized by everyone in the campus community. It is probably true too that much of the strength of the Honor System here at Caltech lies in the face that it is based not on extensive and unconnected set of codified regulations but rather on a single broad principle whose purpose is the creation of an atmosphere to work in that is free and open rather than restrictive or oppressive. As practical matter, the Board of Control has been given the job of interpreting the Honor System as it applies to specific aspects of student conduct. But none of the Board's interpretations have any validity without the agreement of the majority of those to whom they apply: the students. Hence, this statement is to be regarded as preliminary only. The Board solicits any comments or objections you have concerning its position. You can make your opinion known by speaking to your house representative or any other member of the Board), or by coming to an open meeting of the Board to be held for that purpose on Monday, December 6th at 8 p.m. in Winnett Clubroom 1.

The Board's own guideline in

determining this policy has been that it should consist strictly of an application of the unfair advantage principle to the misuse of computers and should in no way extend the powers of the Board or the scope of the Honor System beyond their present boundaries. As is true in academic matters the spirit of the unfair advantage principle is as important as the literal interpretation.

The use of the computing facility of the Caltech campus, as of any other Institute resource, shall be governed by the Honor System. Whenever misuse of that facility occurs, the Board of Control shall have the right to determine whether that misuse constitutes a violation of the Honor System. In arriving at its decision, the Board shall consider such matters as real monetary advantage taken of another party, damage done to the Institute community as a whole, and general unfair advantage taken of members of the Institute community in the illegitimate use of computer time. Any authorized user of the computer has the right to determine who may use his account and for what purpose. An individual who ignores that user's right or who fails to gain authorization for his use of the computer exposes himself to the possibility of violating the Honor System and to subsequent action by the Board.

Obvious examples of cases the Board would consider include the

unauthorized use of professor's accounts, outside concerns' accounts, and the internal system accounts as well as the use of accounts wherein the accounting system is bypassed.

Neither the Board nor the computing center wishes to discourage those who have either bona fide project that requires use of a computer or who have a serious interest in the software of the computer itself. In fact, there are a number of means by which a student can get support for computer time for independent research. The \$50 department funded accounts, though small, are a beginning in the right direction. It is also possible for a student to get the sponsorship of a professor for a specific project and get computing time in this manner. The computing club, should anyone decide to revive it, has in the past and probably could in the future obtain considerable computer time per member. Beyond these, although opportunities are perhaps more limited, are the two independent research courses offered by the Information Science department, IS80 and IS280.

If misuse of the computer continues, not only is the risk run of causing the institution of a far more restricted computing facility in terms of accessibility and allotted time but also of affecting the gradual erosion of the mutual respect and trust that exist between

faculty and students. To lose this trust would be to lose the most precious of all the Honor System's benefits and ultimately the Honor System itself. And the Honor System is worth saving.

Musicale

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State law requires that pawn shops, second-hand stores, bike, and music stores, etc., submit the serial numbers of all used property they purchase. The list is checked daily against a computerized (ugh!) inventory.

Record your stereo!

If the item doesn't have a serial number already, for example, a car tape-stereo, mark it with your driver's license number or any other identifying mark. Vibrator pens make permanent identification easy. John Elliot, head of Campus Security and veteran of the Pasadena Police Department, suggests that ASCIT start a file in which all Techers and Cal Tech organizations can record serial numbers and location of valuable property.

So get on your local ASCIT officer and suggest that he or she get started on an ASCIT serial number file. These measures will cut down on loss from theft at Cal Tech. You've nothing to lose by taking these measures, and you may soon have nothing left to lose if you don't.

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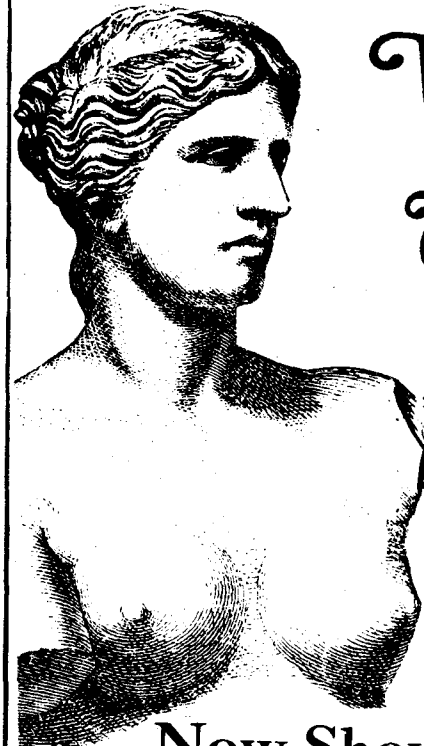
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Off Campus Club Announces Goals

For several months now, animated discussions have been taking place concerning the "problem" of Caltech students who live off campus. About a third of all upperclassmen now live outside of the student houses. Now, for the first time, an appreciable number of freshmen do as well. Many will move out this term.

A Techer will move off campus for various reasons:

- 1) He may wish to save money.
- 2) He might have desired an atmosphere more conducive to study or privacy than exists in the student houses.
- 3) He may decide to be more selective in whom he wants to live with him than merely accepting the peer group assigned to him during his freshman rotation.
- 4) He might not have liked the formalized atmosphere of house life.
- 5) There may not have been room for him on campus.

There are as many reasons as there are off-campus people.

Whatever their reasons for moving off, these people, by that act, become a breed apart. An overwhelmingly disproportionate number of the most energetic campus activists live off campus, as does most of the ASCIT BOD. Yet there is also that mob of "houseless" mystery Techers whom no one seems to know. Many of these too are off-campus people, for obvious reasons.

All share the same disadvantages with respect to men living on campus, although some notice them far less than others. They are admittedly minor disadvantages, but they are nevertheless galling and totally unnecessary.

1) Representation: The IHC, which is composed of the presidents of the seven student houses, selects the undergraduate members of all faculty committees. It also chooses upperclass representatives for frosh camp and settles many questions of athletic programs policy.

Even the rare off-campus member of a student house who voted for a house president is at best poorly represented by this arrangement. This is only fair. The president represents first and foremost those living in his house. Dues paying off-campus members must be his second, not first consideration.

And what of the majority of off-campus members who, due to inconvenience, exorbitant House dues, or mere revulsion, are unable to maintain even this tenuous connection with the IHC? Are they

to forget faculty committees, etc., altogether?

The IHC is not the only group which virtually ignores the interests of 1/3 of the student body. Although the ASCIT BOD and the Board of Control have several off campus people as members, there is no specific provision for representation. Each house sends a delegate to the BOC who defends students from his house who have been accused of honor system violations. It is his job to interpret the honor code to the house at large and to explain changes in policy.

Non house members must hear such changes by word of mouth.

ASCIT is presently faced with the threatened withdrawal of dozens of members. We submit that part of this is due to the present irrelevancy of ASCIT to the interests of off campus people who form a large portion of those complaining.

There is also the fact to be considered that there is little or no general consideration of the off-campus students in university policy-making. There is no way, at any time, of finding out what the opinions, on a certain matter, of O.C.M.'s at large might be. As a result, the best administrators try to guess and the rest don't even consider the question.

2) Communication: This is another one of those "little things" that can become particularly irksome at times. The houses are presently far too heavily relied upon to carry information to the student concerning all aspects of university life.

The campus newsletter and California Tech are both delivered to the houses. If an off-campus person does not appear within a couple of hours of their arrival he will usually find them all gone. No matter that he has paid for his copies. He then must go and bug Louise Hood, who, up until this time, has been the incredibly harassed fairy godmother of off campus people. She might have a Tech for him.

But the Tech and Newsletter carry only a tiny fraction of the information that never sees print but instead comes to undergrads care of house announcements at dinner in the Student Houses. As a result, O.C. People never are fully aware of what's going on.

These are the biggest gripes of O.C. men. But there are others:

The only way a student can participate in non-varsity sports is to be a close member of his former house. Often, though, people sought

out for ball games somehow never find out about social activities which center on the houses. Some houses require O.C. people to pay dues at rates that would seem designed to discourage participation, this when off-campus people have more cars and steady girl friends per capita than any house and could be more of an asset than a burden on social life on campus.

Off-campus people have second-rate parking privileges with respect to those living in the houses, while common sense would indicate that those who drive to and from school need close parking easily as much as folk who merely store their cars nearby.

Lastly, many men move off campus because they've been soured on one house in particular. Every year a surprisingly small number of people transfer from one house to another. Most, in fact, are acquainted primarily with the same people throughout their stay at Tech and never meet more than a tiny fraction of the people of other houses.

There are off-campus people who simply want a better break from the houses.

For all of these reasons, and various others, a large group of students have decided to organize for off-campus representation. Some of these students would like to create something tight and cozy like the old Throop Club was. They would have a lounge, a social program, compete in interhouse sports; i.e. have everything in a house except the cell block.

Others are of a more individualistic nature and would have no part of the chummy politics that they left the houses to avoid.

Because of this difference of opinion it was decided first to create a very loose set-up, designed to ameliorate the problems mentioned above, and provide a place for off-campus people to pick up their mail. A Throop Club can be formed later within this diffuse structure as interest allows.

The goals of the Off-Campus Student Association shall be:

- 1) To give voice and focus to the grievances of off-campus students.
- 2) To represent the interests of O.C. people before the Interhouse Committee and Institute powers that be.
- 3) To facilitate communication.
- 4) To improve inter-house interaction so that students dissatisfied with one house have an alternative to moving off.

5) To provide, for those who are interested, a substitute for the houses as a focus of social life, camaraderie, and prostitution.

Through the good offices of Dr. Lyman Bonner, Director of Student Relations, this embryonic Off-Campus Students Association has acquired the old boiler room next to Thomas for use as a place to keep bulletin boards, mailboxes, etc., and where we can meet at various times. For reasons of safety and security keys will be issued to those who become members and the doors will be locked constantly. There will be a key deposit of \$1.

The nominal dues (\$1 a term, tentatively, on the term bill as long as the key is held) will entitle a member to a key, a personal mailbox in which he will find a Tech every week, and the right to vote for "flunkies" (we will have no "officers") such as IHC rep, Chief Griper, and bulletin board keepers.

We will meet as infrequently as is at all possible, (preferably while drunk,) and tar and feather any "flunky" who gets obnoxious or power hungry.

A "Throop Club" may be a good idea, although it would have to refrain from imposing itself on the loose Off-Campus Students Association. Many people are talking about such a group.

That is all there is to O.C.S.A.: Representation, communication, a place of peace and quiet on-campus where one can lock one's bicycle indoors or even study.

Anyone interested has merely to check out a key (when they are available sometime next week) from Louise Hood in the Winnett Office. Most business will be conducted by mail, so that's all there is to it.

Following is a list of names of those who were involved, to one extent or another, in the discussions leading up to O.C.S.A. and who endorsed the preliminary version of this statement. List of Endorsers P. Thomas Carroll, Wayne Anderson, David G. Brin, Kirby G. Dahman, Scott Siegel, John C. Bean, George Bosworth, Alex Law, Paul A. Levin Lang Withers, Stanley Chen, Bruce E. Litow, Kim C. Border, Marvin Mandelbaum, Mike Schroeder, Arthur W. Selly, Rand Waltzman, David C. Bryant, Dan Reichel, Oren Maxwell, Barry Dohner, Gary Ruby, Randy Williams, Peter Chan, Will Tordan, Greg Tarle, Ken Jacobsen, Steven Young, Martin Chen, Jonathan Post, Klaus Engelhart, Ira Moskatel, George Rinker, Emden Gansner, Robert Frisbee.

Zinfandel: A Treat For Tongues Dulled By Food Service

by Peter Beckman

Once upon a time there lived this weird Hungarian noble named Count Agoston Haraszthy. His life would make a great adventure novel, but unfortunately no one would believe it. (Among other things he founded Sauk City, Wis., married his sons to the daughters of General Mariano Vallejo, and was finally eaten by crocodiles in Nicaragua in 1869.)

Today, he is revered by grape growers as the founder of modern California viticulture. Buena Vista, the estate he founded in Sonoma County in 1856, became the premier California vineyard of its time and served as a guiding light to the other pioneers of the state's grape industry. In 1861 Haraszthy visited Europe and returned with over 100,000 vine cuttings which provided a basis for many of the state's early vineyards.

Can Grapes get Seasick?

Among the cuttings were the ancestral vines of the grape now known as Zinfandel. No one is certain where in Europe they came from, or even if Zinfandel is the correct name (it probably isn't).

One of the best legends of the wine's origin says that the tag on one lot of vine cuttings was smudged during the long trip around Cape Horn. The name couldn't be made out very well, but it looked like "Zinfandel." Colonel Haraszthy (he thought the title was more democratic than Count) couldn't remember buying them, but he took a chance and planted the cuttings. The vines prospered exceptionally, and the wine produced from them passed all expectations.

Whatever the truth of the story, today California is the only known home of the Zinfandel. In fact more acreage is planted in Zinfandel than

Continued on Page Eight

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David Miller

Garble Tom Continues

It was a dark and stormy night. Garble Tom had heard rumors of bonfires being set in the streets again, and he went out to look around Matador College. As he passed the greenhouse something large flapped away from the roof, from the place where the glass panes could be raised

for ventilation above the night-blooming fatal. He stepped inside and turned on the light. Three huge, ugly bats covered with brownish-yellow powder flapped out of the flowers and took off through the ventilator space in the roof. One

Continued on Page Eight

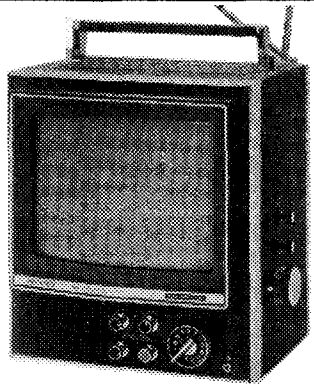
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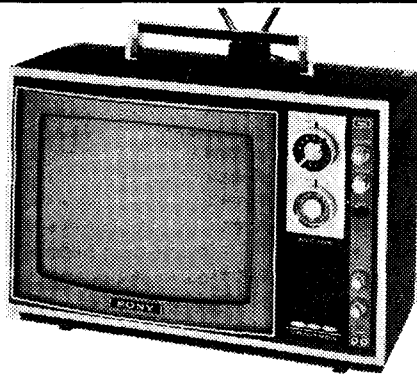
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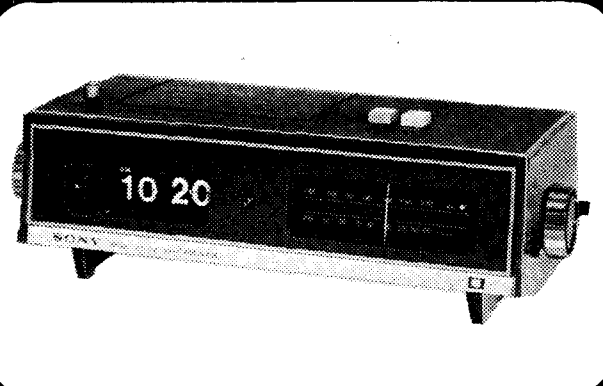
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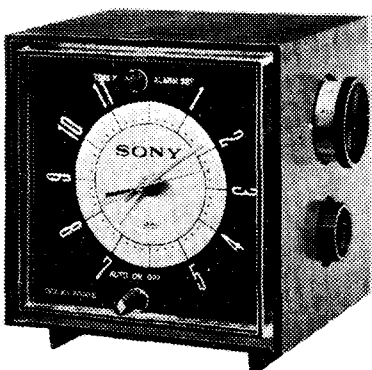
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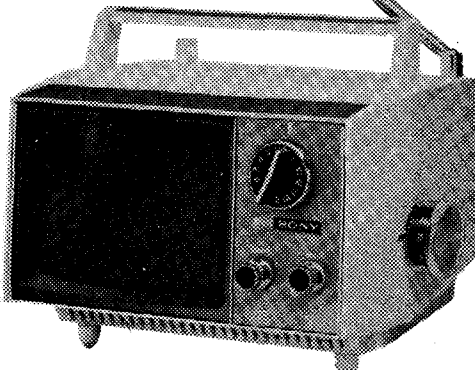
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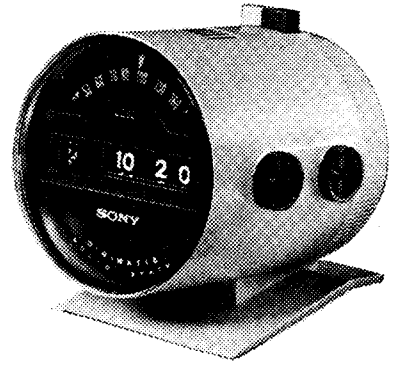
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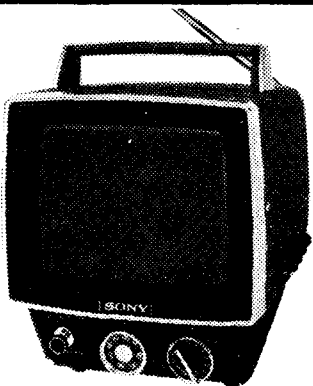


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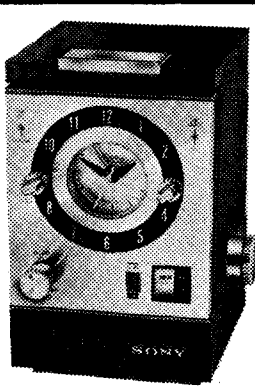


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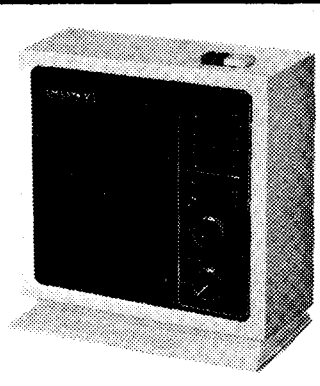
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Books

BRITISH SCI-FI

I have here two somewhat parallel science fiction books. They are both by British authors whose primary field is the short story. They are both set in the future. They are both about the actions of a group of people brought together by the forces of circumstance. And they are both, unfortunately, failures.

The first, *The Committed Men*, by M. John Harrison (Doubleday Science Fiction), is about the aftermath of an atomic war, with its mutations and raised radiation levels and civil strife and whatever else happens after such a disaster. The four main characters are a dwarf, a cripple, an aging quack doctor, and a random girl. There is also a mutant baby, but he (it?) serves primarily as a plot device to allow the characters to go questing for a rumored colony of these mutants.

Biology Department

Sponsors Seminar

On Cancer Research

Pasadena, Calif.—A series of eight seminars on basic problems in cancer research will be conducted by the division of biology of the California Institute of Technology in cooperation with Huntington Memorial Hospital here, it was announced today.

Dr. Robert Sinsheimer, chairman of Caltech's biology division, explained that the seminars are designed to exchange information on cancer research between the academic research community and medical researchers and practitioners.

The seminars are being made possible through a grant from Eli Lilly and Company with assistance from the Damon Foundation.

They will cover several areas of cancer-related biomedical research and will feature eminent scientists from across the country. The first seminar is scheduled for 4 p.m. Tuesday, December 7, in Kerckhoff Laboratory at Caltech. Dr. Karl E. Hellstrom, professor of pathology, University of Washington School of Medicine, will speak on "Blocking Antibodies in Cancer."

Dr. Sinsheimer said the seminars will focus on the role of viruses in cancer and on the relation of the cellular immune system to defense against cancer. He said recent research developments in these fields have raised hopes among many scientists that the near future will bring basically sound and general methods for dealing with cancerous growths.

Frets & Frails West

Brewer & Shipley

Just before Thanksgiving, I went to Doug Weston's Troubadour in Hollywood for the opening show of Brewer and Shipley. I have good news for you and bad news for you, first, the good news.

Brewer and Shipley, famous for "One Toke Over the Line" and "Tarkio Road," were excellent. Their performance cannot be faulted in any way, and they really should be seen in person at the next opportunity. They did all of their well-known songs, as well as a few new ones. There wasn't a sour note in the show. The harmonies were smooth, the guitar work fine. All in all, an excellent entertainment.

Their supporting act, Steve Goodman, was an impressively favorable surprise. He was filling in for the ailing John Prine, and he did an excellent job. Steve Goodman reminded me very much of Arlo Guthrie, only with a little better voice. He had the audience with him all the way after he sang a couple of songs. The applause was

thunderous after what is probably his masterpiece, "Your Flag Decal Won't Get You Into Heaven Anymore." I hope he performs in Los Angeles more often, for he is a good entertainer.

Now comes the bad news. The Troubadour is less than perfect for the entertainment presented. The price (about \$5 per person including minimum drinks) is reasonable for the entertainment being presented. The atmosphere is not. People were being packed in like sardines, with a few inches clearance between tables. Any ventilation was missing during the show, so that a blue haze was visible between my table and the stage (about 6 feet) from the cigarette smoke of the customers. Also the sound system didn't sound even vaguely balanced, but that could have been due to the acoustical absorption from that many bodies. At those prices, I would think that they could do a little better.

—Nick Smith

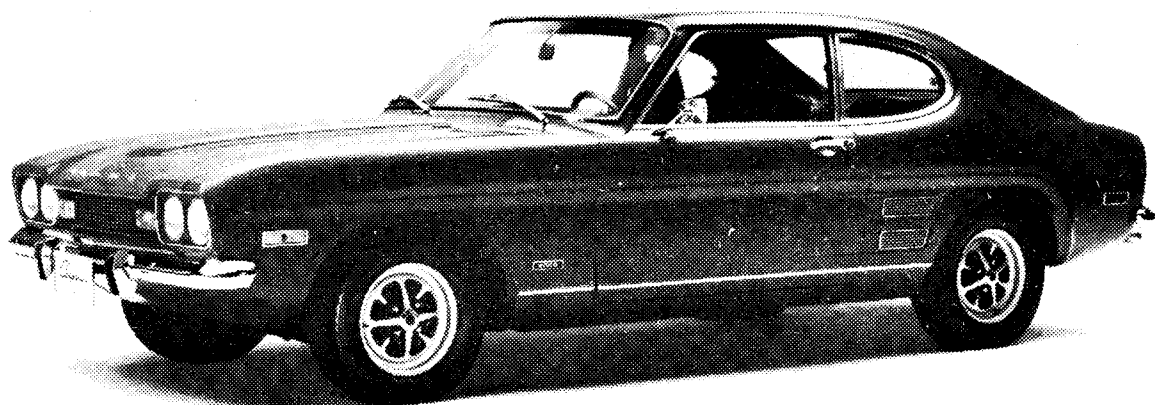
—Nick Smith



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Debu Debuts at Beckman

by Jeff Mallory

Incense on the air, rhythm pulsing through the ears, the mind serene in the melodic flow of intricate music. Visions of old India, its mystics and legends, pop into mind whenever scenes like these are mentioned.

You can experience a piece of ancient India this Saturday, Dec. 4 at Beckman when Debabrata Chaudhuri, commonly known as Debu, will perform on his sitar at 8:30. Tickets are still available from the ticket office for \$4.50, \$3.50, and \$2.50 (\$1 to Techers).

Indian music is far different from a westerner's concept of music. For one thing, songs, or ragas, as they are called, can be performed in any key. In fact, a scale is created every time a raga is played, for an octave and its twelve notes are established at the beginning of the raga when the tonic is chosen. The twelve notes are pure (as opposed to tempered) semitones, unlike the notes of a piano.

The music one plays from is not

at all like our sheet music. The raga itself merely provides the ordering of notes and the characteristic motifs to be played as well as a sort of "recipe" for the composition's rendition. Most of the raga is improvisation around this basic framework.

Debu will play several ragas Saturday night. His sitar will be accompanied by the tabla (drums) which creates a strict rhythmical pattern for the music called the Tala. All of the ragas are traditional and date back centuries. The performance will certainly be worth listening to, and could be (as is everything else at Tech) quite educational.

Marcel Marceau is coming a week from today at 8:30 in Beckman. Thickets are sold out, but this is a reminder to those of you who bought tickets at the beginning of the season.

Next Wednesday, Dec. 8, the Division of the Humanities and Social Sciences will present a

Continued on Page Ten



audience

by Phil Neches

"During my war years in the South Pacific, I thought — or more accurately, dreamed — of one day writing a novel that would picture the convulsion in which I was caught." Out of that dream, Herman Wouk produced *The Caine Mutiny*, which quickly won the Pulitzer Prize. The last pages of that celebrated novel have been adapted by the author for the stage in an unusual and compelling drama entitled *The Caine Mutiny Court-Martial*.

The play is a most unusual war story. Almost all of the action occurs within the confines of a military court room, for indeed the

play is a dramatization of Wouk's famous court-martial. There is little action to speak of, only the entrances and exits of the witnesses and the paces of the two opposing lawyers. The story turns on subtle distinctions between madness and sanity, engendered by an incident in which most men would seem mad: a small mutiny on a little ship caught in a typhoon. But the action occurs in the calm of judicial proceedings; far removed from the natural violence the witnesses describe.

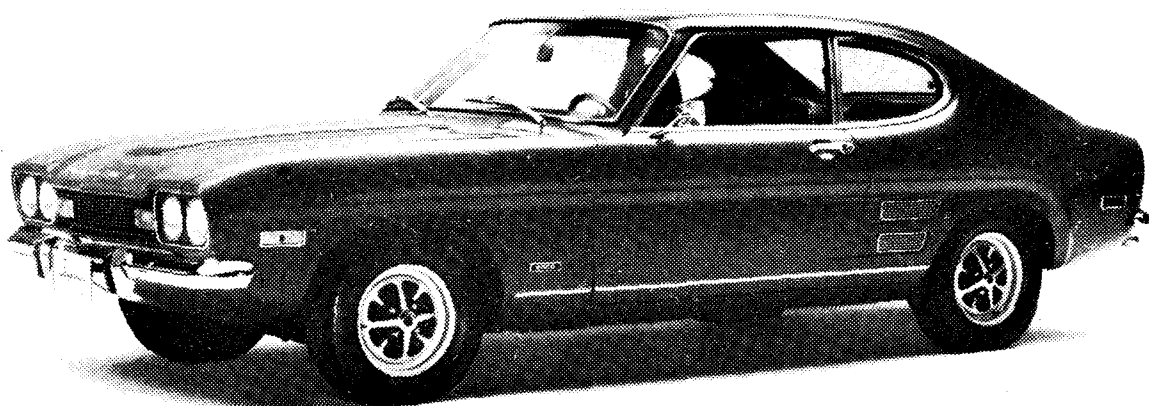
Consequently, the script makes heavy demands on the skills of the actors and their director. However, the Ahmanson Theater management met the challenge well in signing Henry Fonda to direct the play, and obtaining Hume Cronyn and John Forsythe to take the leading parts. With a strong company and a masterful script, the Ahmanson's current production of *The Caine Mutiny Court-Martial* provides an excellent evening of theater.

Hume Cronyn, as Lieutenant Commander Philip Francis Queeg, won the loudest of many enthusiastic accolades, and deservedly so. Queeg is a most subtle and challenging role. He is non exactly insane, but more than averagely paranoid; a perfectionist because he is ashamed of his shortcomings, a capable commander with the capability of doing perfectly ludicrous things, a man not stable enough to command a ship in a hurricane, but capable of fooling both the Navy and himself into thinking so for nineteen years. He is fated to lose his dignity, and possibly his grip on himself on stage, but not heroically, as he is too ridiculous for admiration.

Perhaps the portrayal of charac-
Continued on Page Twelve

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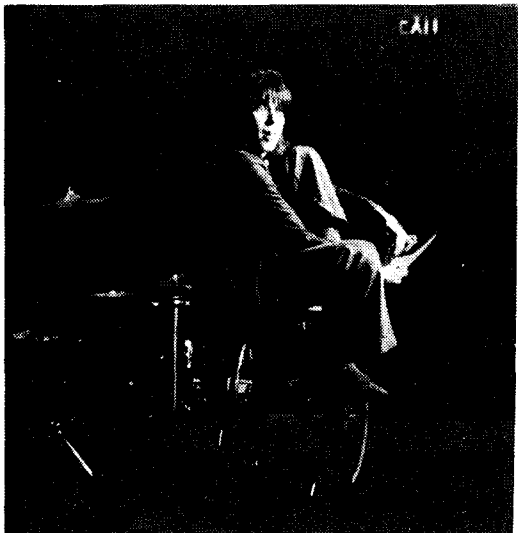
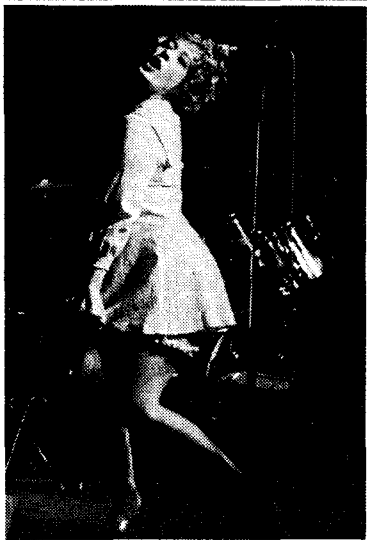
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AT THE ICE HOUSE — [top left] Hello People, [top right] Donna Jean Young, the sexpot of East McKeesport, [bottom left] more Hello People, [bottom right] Tim Morgan and friend.

—Photos by Ctein.

Garble Tom Goes Bats

Continued from Page Four

of the other flowers looked somewhat wilted, and there was a curious swelling in the stem just below. Garble Tom called the biology professor.

"How long would it take the seeds to ripen if the night-blooming fatal were pollinated?"

"Three or four hours. It's got a fast metabolism. Did you have to call me at two in the morning for ..."

"What happens when the seeds get ripe?"

"A sort of explosive effect, which scatters the seeds over a wide area. Do you think that somehow ..."

"Could bats..."

"They certainly..." KA-FOOO-OOOM!! "...and would not be overcome for a considerable period by the vapors. It sounds to me as if the first seed pod has ripened. Does it look to you as if we're going to need a new greenhouse?"

"Yes, I'm surrounded by broken glass and rumblebees. They're all walking north."

"Well, let's call UCLA and the Army. To quote your radio program, we face a great danger, and we better do some praying."

But as it happened, the problem was not so serious as they thought. Things were quite interesting for a week or two, with hundreds of people buying loads of weed killer, for the seeds had gone long distances. Some helpful organization came out with signs, bumper stickers and buttons that said "Stomp the Flowers!" with a picture of a night-blooming fatal blossom. And radio stations revived the old song about "You better watch out for the eggplant that ate Chicago. For he may come and eat

your city soon. You better watch out for the eggplant that ate Chicago. If he's still hungry, the whole country is doomed."

The most unnerving part of the whole affair was the rumblebees. If they didn't try to fly, they could walk a long distance without becoming dormant. So they continued north till they got to the mountains, and then they walked up the mountainside. When they reached a ridge, they continued up the ridge until they reached a local peak. Then they launched themselves back over the city. While they didn't have strength enough to take off from a flat surface, or climb, they could power-glide an appallingly long distance, and they hopped from mountain to mountain to keep their altitude, and landed on tall buildings and even high freeway interchanges when no mountains were available. Flying kept the air rushing through them fast enough for them to remain active, and as no flower had the gargantuan quantities of nectar they needed, the next best thing was soft drink syrup. Before they were all caught or shot, television viewers around the world had seen the National Drinks warehouse flattened by rumblebees mad for Orange Crush, which was occasionally called Orange Demolish after that. And Coca-Cola ran an advertisement in Playboy which showed a rumblebee drinking a mixture of Coke, honey and vodka which they said was "The Real Sting!"

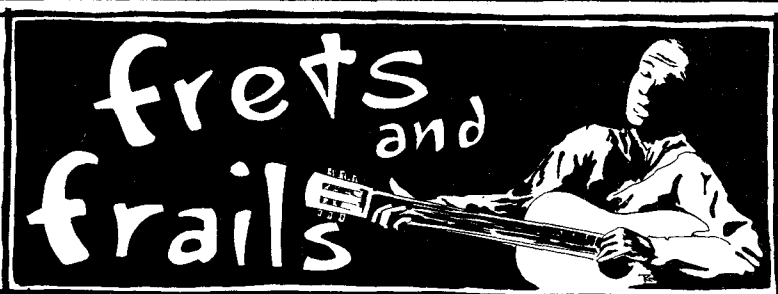
Everyone was relieved that they had seen the last of the dreadful products of the Matador College laboratories.

It was a bright and balmy day,

with no smog, when nothing evil or unpleasant could conceivably cast its baleful shadow on the city. A flock of huge bats streaked low over the city, landed in packing houses, gorged themselves on the blood gushing from freshly killed carcasses, and flew away more slowly. The air pollution board's detector system registered the fumes of night-blooming fatal flowers wafting down from the mountains. That was a bad day for Garble Tom. He suspected that his friends from Cow Tech had been up to their little tricks again, for the Matador College computer was printing messages like, "THE EGGS IN YOUR NEST OF DO LOOPS HAVE HATCHED A FLOCK OF LITTLE DODOS." This message appeared 387 times, suggesting that something had been taken out of the system which suppressed unnecessary messages. And then he found the biology professor in his office, saying into the phone, "No, Governor, the state doesn't support us. The taxpayers of California don't pay us a cent for our catastrophic tomfoll shenanigans. We do it out of the overflowing..."

Garble Tom took the phone and discovered that it really was the Governor, and assured him that they did not need the National Guard, unless they could put together a detachment of hunters who could hit flying targets at extreme ranges, actually it was a problem for the scientists at this point, since the bats were so huge, everyone knew real vampire bats were quite small, clearly something strange was going on, since we had destroyed all the night-blooming

Continued on Page Ten



Hello People have returned to the Ice House, featured in a show starring Tim Morgan and also featuring Donna Jean Young. I realize it is not fair to mention supporting acts first, and I hope Tim Morgan will forgive me, but in this case it is only right.

Hello People open the show with some of the best jazz-rock-mime I've ever seen. A few of you may be familiar with their music, but the rest need an education in what wheat germ can do. Hello People's music is extremely good, using guitars, bass, saxophones, drums and keyboards in various combinations. Their music ranges from soft rock to modern jazz, along with a few things which are not so easy to classify. They do humorous songs, such as "Mayor Yorty," as well as mime comedy routines. "The Mad Red Ant Lady" is difficult to describe, since it is part straight love song, par insanity. Their clown makeup adds to the effect of their mime, and sets a light tone to the show. They are good, very good.

Donna Jean Young is a nice comedienne, as well as being the sexpot of East McKeesport. Her act

used to consist a bit too much of small town jokes, and still has traces of them, but her best material comes out when she forgets about small towns and is just funny. She is well worth seeing even without the striptease, and her singing voice is just right.

At last we get around to the star of the show, Tim Morgan. I have seen his acts many times, and at one time I had become bored with them. He seemed to try and clown too much into each set, and had some other weak spots. NO LONGER! Tim Morgan is much better nowadays, more relaxed and much smoother. His show included Van Morrison and Rod Stewart songs as well as Beatles and Presley. He even did a series of commercials and take-offs on thereon, not to mention mimicking Elvis and Bobby Sherman. He did one song from "Jesus Christ, Superstar" as well as a song originally made a hit by Barbra Streisand called "Stoney End." Tim Morgan is an extremely good entertainer now, and I liked his show very much. See it if you can.

—Nick Smith

The Athenaeum Serves It!

Continued from Page Four

any other wine grape except Carignane. The wines produced vary in quality from fairly ordinary vintages produced from grapes grown in the Central Valley to some of the best premium varietals made from grapes grown in the cooler coastal areas of northern California.

Raspberries?

At its best, Zinfandel is described as "a very fruity wine with a luscious, raspberry-like aroma." Like most red wines the younger vintages are a little rough and a couple years of bottle aging does wonders smoothing them out. Some of the premium brands, such as Heitz or Martini may throw a slight deposit of sediment as they age.

In random samplings and tasting sessions this term the following qualities have been observed:

Martini Zinfandel, 1968—A little heavier and darker than most Zinfandels, but exceptionally good. Great aroma.

Heitz Zinfandel, (nonvintage) —Not bad, but it could use a little more character. It tastes like it may have been blended with a less distinctive varietal.

Charles Krug Zinfandel, 1968—Two bottles of the same vintage were considerably different. One was much rougher than the other. Otherwise a fine medium Zinfandel.

Italian Swiss Colony has recently come out with a Zinfandel priced at about a dollar a bottle, less than half the price of normal premium Zinfandels. Although I haven't tried it, it could be a fairly cheap way for a beginning drinker to find out if he likes the variety.

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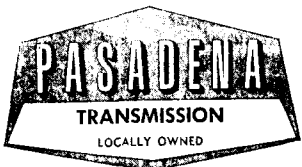


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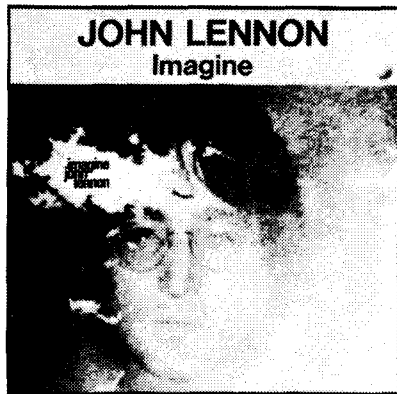
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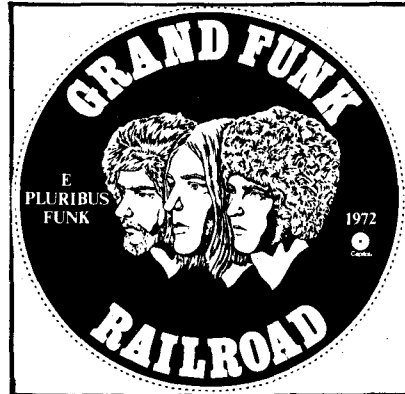
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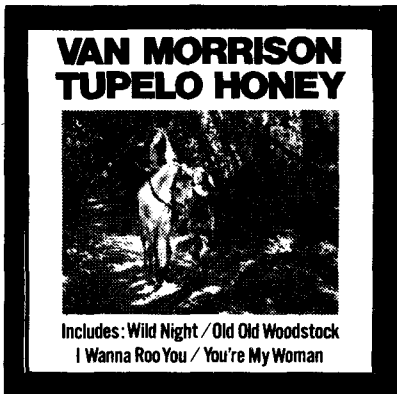
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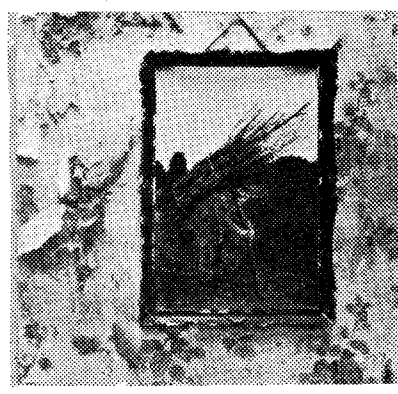
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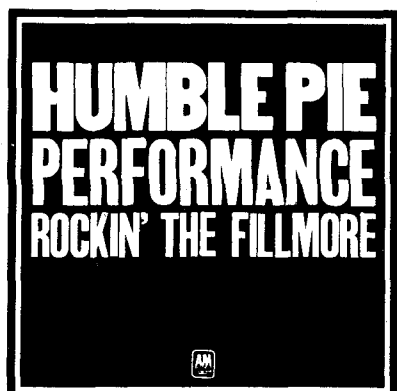


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Enter Critic

De-CROC TV Commercials

College students across the country are being asked to support a movement to try to ridicule irritating and obnoxious television commercials off the air.

Bill Bentzin, a Minneapolis public relations man and founder of the Committee for Rejection of Obnoxious Commercials (CROC), launched the campaign November 10 in a talk to the Mankato State College Marketing Club in Mankato, Minn.

CROC was formed in September in Minneapolis, and now has more than 1,000 members from coast to coast. The organization hopes to improve the quality of television commercials by calling attention to the bad ones, at the same time recognizing some of those which CROC members feel are good.

Main activity of CROC will be a balloting by members in the spring to name the "10 Biggest CROCs of the Year"—the 10 worst TV commercials of the season. CROC award winners will be nationally publicized.

"There seem to be enough bad TV commercials to offend just about everyone. We've got memberships from the grade school set to retirees," says Bentzin. "College students I've talked with feel very

strongly about improving commercials. They're much too sophisticated to be impressed by the ridiculous things that some of the agencies resort to in commercials."

Membership in CROC costs \$1.00, and all college student members get eight "Your Commercial is a CROC" protest cards to send to companies sponsoring bad commercials to let them know they may be heading for a CROC award; a membership card; a "Let's Get CROCED Together" button, and a "Crush Revoltingly Obnoxious Commercials" poster, plus the right to join in the spring voting. The poster, covered with graffiti about current TV commercials, was created by a Minneapolis College of Art and Design student. Graffiti was contributed by several persons concerning their favorite CROC candidates.

To receive all CROC material and get on the spring ballot list, students send \$1.00 to College CROC, Box 1022C, Minneapolis, Minn. 55440.

College students also are being asked to participate in a "CROC art" contest to create a new poster for the organization. The "CROC art" competition is open to any

college student and has a first prize of \$100 for the best poster capturing creatively and imaginatively the goals of the organization. Second prize is \$50 and third prize, \$25.

Judges for the "CROC art" contest will be Jay Belloli, assistant curator, Walker Art Center, Minneapolis; Mrs. Howard Kaerwer, former lecturer at The Minneapolis Institute of Arts and instructor of art history and culture at the University of Minnesota, and Evan Maurer, assistant to the director, curator, The Minneapolis Institute of Arts. Posters should be done in black and white. Choice of media and size is open, however consideration should be given to possible photographic reproduction and use in a 17 x 22 inch size.

Entries should be sent to CROC art, Box 1022CA, Minneapolis, Minn. 55440, postmarked no later than Dec. 15, 1971, and arriving no later than Dec. 20, 1971. Winning entries become the property of CROC and other entries will not be returned unless accompanied by a postage paid, self-addressed envelope. Decision of the judges is final. Winners will be notified by January 31, 1972.



TELEVISION COMMERCIALS ARE A CROC says Pegi Hjerstad. If you agree, send your dollar in and do something about air pollution!

Garble Tom

Continued from Page Eight

fatal plants, but they seemed to be growing in the mountains now, you could be sure we would keep in close touch, goodbye, Governor. A similar message was prepared for the distraught mayors and city managers who called in; the bats had been seen over a wide area. Not all the mayors called in, of course. One of them was on his way from Pretoria, South Africa to Canberra, Australia, and could not be reached for some time.

And once again things were not as serious as they first seemed. The huge vampire bats gorged themselves at packing houses and did no harm to people, and no one ran a foul of the night-blooming fatals growing in the mountains. Nevertheless, there were more and more bats all the time, and the vapor detectors

indicated that the flowers were multiplying. Something would have to be done eventually.

The zoology professor said that the bats were like Lesser Mexican Fruit Bats, often called "flying foxes," except for certain differences in the complex cartilages around the nose and mouth. When some more night-blooming fatals were grown in the new greenhouse, the scientists watched fruit bats fly to the flowers, climb out covered with pollen, and change before their very eyes. In addition to the visible change in the nose cartilage, the transformation involved a good deal of gasping and clutching at the throat, which was hard for the bats because their fingers were embedded in their wings; they did the best they could.

"We would like to catch some," said the zoology professor.

"Why, and why can't you?" asked Garble Tom.

"We can't exterminate them if we can't even catch them, and if we could understand the enormous metabolic change, it would help a lot. We can't catch them because they have ultrasonic sonar, and can detect when we put up nets or try to shoot at them. We need something to detect their ultrasonic sounds, and then maybe we can jam their sonar.

The electronics professor at Matador College had a gadget that he had seen in Popular Electronics. "This little knob is the subtraction or 'heterodyne' frequently control," he said, "It's set at 30,000 now, which means that any sound that goes into this high-frequency microphone with a frequency between 30,100 cycles per second and 42,000 cycles per second comes out of the speaker between 100 and 12,000 cycles per second. The knob goes from 20,000 to 90,000."

That night in the greenhouse they watched as a monstrous bat flew to the flower, emitting strange cries which began loudly at a high pitch and ended softly at a low one,

coming out of the sound transducer as "EEYurp! EEYurp! EEYurp!" They watched the transformation as it climbed out of the flower. It looked at them. Then out of the speaker came quite distinctly, "Hey meester, uno momento. I wanna dreenk your blood."

The zoology professor dropped the transducer, screaming "It talks! With a Mexican accent!!!"

"Well, after all, it's a Mexican bat. I imagine only Hungarian bats sound like Bela Lugosi," replied Garble Tom.

Seeing that they had heard and understood him, the bat attacked, but Garble Tom punched it in its newly grown nose, and it fled into the night.

The discovery that the giant vampire bats were smart enough to talk put an entirely different complexion on the matter. For one thing, the bats' peculiar notion of politeness dictated that they only attacked people who could hear and talk to them. This made them difficult to study even when more transducers were available. Another thing was the ethical objection: "They're people. You can't just shoot them down in cold blood." Actually, you could. Garble Tom heard a commotion in one of the Matador College dormitories and

day and went into the lounge to find all the students clustered around a television which showed a man with a microphone who was saying, "This is Howweird Cosine for Wild World of Sports, and with me tonight is Mr. Jonathan Harker of Collins' Grove, California, who has organized the world's first vampire bat hunt. I imagine this is a big moment for you."

"Yes, Howweird, a very big moment, and I have a good feeling about the evening, I think I will get several tonight."

"Mr. Harker, it is a well-known piece of folklore that only a silver bullet will kill a vampire. However, you have proved that this is merely a foolish superstition, haven't you?"

"Only partly. Actually, any white metal which conducts electricity well will give good results. I have been very pleased, though I don't get very much range, with a .357 magnum shooting an aluminum projectile. It saves a lot of money."

"Thank you, Mr. Harker. Now I need to tell our color audience that they will be seeing funny colors on our program today because we used infrared film to photograph the hunt a night without disturbing it." Jonathan Harker got five; Bill Pratt got four; and Lucy Weston got two.

Beckman Events

Continued from Page Seven

symposium exploring the "opportunities and obstacles women and minority groups members find in American science and engineering."

The all-day conference starts in the morning with three speakers on the past and present social sources of science and engineering: Dr. Daniel Kevles from Tech, Dr. Andrew M. Greeley of the University of Chicago, and Dr. Harriet Zuckerman from Columbia University.

The afternoon will feature an open panel discussion of "The Further Social Diversification of American Science and Engineering in the '70's." The panel will include

the earlier lecturers in addition to Alexis Balmy from Xerox Corp., Rose Brock from the Office of Civil Rights, HEW, and Lee F. Browne from Tech.

Dr. Robert Huttenback, chairman of the division, will preside over the morning session and Dr. C.J. Pings, Vice-Provost, will moderate the afternoon discussion. Registration for the event will start at 8:30 Wednesday morning in Ramo.

Dr. Lester Lees, the director of EQL, will continue the *Caltech Lecture Series* with his talk on "People, Power, and Pollution" next Monday in Beckman at 8:30. Admission is free and no tickets are required.

Classified Ads

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Resume and Curriculum Vitae Service. For best results in the current labor market, have your resume and cover letters professionally prepared and printed. Professional Management Services, 1901 Avenue of the Stars, Suite 578, Los Angeles 90067. 553-1251 or 879-1706.	Moving Dec. 10, selling: twin beds, brass headboards, Martha Washington spreads; 38" stove, pair end tables, pair chairs, fireplace screen, brass andirons, clothing, harvest bench, mirrors, plants, dinette set. 1210 Avoca, near Columbia.	EUROPE — ISRAEL — EAST AFRICA. One way and round trip student flights. Inexpensive student camping tours through-out West and East Europe, including Russia. SOFA agent for inter-European student charter flights. Contact: ISCA, 11687 San Vincente Blvd., Suite 4, L.A., CA 90049. Tel: (213) 826-5669.
Custom Bumper Strip. Your words. \$1.00. Starr, Box 9295, San Jose, California 95117.	FINALS COMING SOON! You'll probably need new underwear! Hanes briefs sizes 30, 32, & 34 and Athletic shirts (small). 3 pair normally \$3.39 . . . now only \$2.50 while supply lasts. Call ext. 2293 before it's too late!	EUROPE CHARTERS 50 departures, also from New York. India-Africa-Israel. 60% off. Free info: EASC, 323 No. Beverly Dr., Beverly Hills, CA 90210. Phone: 276-6293.
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Oriental throw-rugs and runners. Also domestic rugs. Furniture and miscellaneous. 1345 Wentworth, 792-8939.	2 BR's, unfurnished, from \$150. Large, clean, Townhouse units in S.W. Pasadena. Pool. Married, single students, faculty welcome. Very young child OK. No pets. Also, need couple without children to manage 18 units in South Pasadena for free rent. Call Mr. Hale, 799-8429.	Buying or selling something? You, too, can take out an ad in the <i>California Tech</i> !!! \$1.50 per inch plus 20¢ per extra line for Classifieds. Bring ad copy to the <i>Tech</i> office, or phone ext. 2154. O.K.?

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Sheffield, Hight Named All-League

Water Polo Squad Ends Season, Finishes Fourth

By Bob Kieckhefer

The 1971 water polo season has finally ended, after 11 hard weeks, with Caltech finishing fourth in the SCIAAC standings and tied for fifth in the NAIA District II Tournament. Captain Steve Sheffield was a unanimous choice for the all-league first team and was also named to the NAIA all-tournament team, while Tim Hight was named to the all-league second team.

On November 17, the team played a high-scoring, high-fouling game at Redlands. Tech jumped to a 2-1 lead early in the game, but fears of fouling out forced them to play more conservatively. Redlands moved to a 10-6 lead at halftime, and continued playing hard in the second half. Tech, without substitutes after two men fouled out in the third quarter, was forced to play even more conservatively. Bad breaks and dubious calls by the referees nullified a few apparent goals by Tech's shooters and the game ended after 59 fouls had been called, with Redlands on top, 24-11. Steve Sheffield had a good day, scoring eight goals, while Russ Desiderio, Jim Jakway, and Tim Hight got one apiece.

On November 20, Tech and Occidental fought out a close game in the SCIAAC finale. Tech started slowly, attacking the shallow-end goal, but came back in the second quarter to trail only 4-3 at halftime. The second half was a tight defensive struggle, in which each team violated the minute rule (the equivalent of pro basketball's 24 second rule) twice. Again each team had trouble scoring in the shallow end, but Oxy's swimmers managed

to pull out a 7-5 victory by thwarting Tech's fourth-quarter rally. Steve Sheffield scored four goals while Steve Bitondo got the other in the losing effort.

Over Thanksgiving vacation the NAIA Tournament was held at the Claremont Colleges. In their first game the Techers took on Oxy, which was fired up after defeating No. 1-seeded UC San Diego an hour earlier. Extremely hot water rapidly tired the Tech swimmers, who were playing with only one substitute, but they held Oxy to a 4-2 halftime lead. In the third quarter the Techers again got in foul trouble and Oxy ran the score out of sight--at the final gun it was Oxy 10, Caltech 2.

In their second tournament game, against UCSD, Tech shooting reached its height of futility, as none of the 13 shots from the field found their mark. (Tech shooting for the entire tournament was 2 for 42 from the field, for a .048 percentage.) Fouls again took their toll--for the last two minutes the Techers played a man short because they had had only one substitute and two men had fouled out. The final score was UCSD 11, Caltech 1.

The story was almost the same against Claremont-Mudd in the third game of the tournament. CHM was ahead only 2-1 late in the second quarter, but two Tech mistakes gave them a 4-1 lead at halftime. Again two Techers fouled out in the second half, but the on-the-spot recruitment of Steve Alfansum allowed Tech to play with a full team after the second man fouled out. The final score was CHM 9, Caltech 3. In tournament action,

Track and Field Seeks Recruits

Varsity track practice begins on January 3, 1972. The team looks strong in the 880, mile, three mile, and the 400 intermediate hurdles, but very weak or shorthanded in the rest of the events. As far as can be determined, there is no pole vaulter in school at the present time, and possibly only one high jumper. We have only one man in the javelin, a senior, so we are looking for strong-armed freshmen or sophomores who are interested in starting from scratch in an event in which most competitors in our league have started without former experience. We need conscientious men in the shot and discus, the sprints, and the 440, but of course we will not turn down candidates in any of the other events. Rick Sloan, a member of the 1968 Olympic team in the decathlon, will coach the field events, and with his experience, will be of great value in helping anyone with or without experience. We compete in a very touch league, and we need all the candidates possible. Anyone interested see me in the Athletic Center at any time.

-Coach Bert LaBrucherie

Russ Desiderio and Steve Sheffield scored the only two goals from the field, while Steve also connected on four penalty shots.

This year's water polo team finished with a 4-17 won-lost record, as they were 2-6 in conference games. With the loss through graduation of seniors Steve Sheffield, Tim Hight, and Tom Coates, next year's tankmen will need some good freshman recruits to stay above water. With two sophomores and a freshman on this year's starting team, however, the outlook for the future is not as bleak as it might appear.

Everything You Always Wanted to Know About Discobulus*

What is a Discobulus? Well, you dumb frosh, it's a rotating trophy that a House gets to keep as long as it can successfully defend it against another House.

What does it look like? Well, until Ricketts House gets around to replacing it, that's still up in the air.

Who presently holds the Discobulus? Page House, who won it from Ricketts in golf, and has defended it against Blacker and Dabney in softball and Ruddock in football.

How is it decided which House gets to challenge? There is a rotating system of Houses, which is currently: Page, Fleming, Lloyd, Ricketts, Blacker, Dabney, Ruddock. The first House is the current holder, the second is the challenger. After a challenge, the winner is in the first spot, the loser goes to the end of the line, and everyone else moves up a notch.

How are points given? Three points for a win, one for a loss, and none for a forfeit.

What are points good for? At the end of the year, the House with the most points retains custody of the trophy during the summer and through Rotation.

What sports can a House challenge in? When making a challenge, a House specifies three sports, two of which are of the following: basketball, softball, swimming, touch football, volleyball, soccer, tennis, track and field, water polo, and wrestling. The third sport must be of the following: archery, badminton, bowling, golf, handball, horseshoes, rifle shooting, table tennis, and billiards-and-pool.

Results through November:		Points
Fleming def. Ruddock in softball ((forfeit))	Page	12
Lloyd def. Fleming in football	Fleming	4
Ricketts def. Lloyd in handball	Lloyd	4
Page def. Rickett. in golf	Ricketts	4
Page def. Blacker in softball	Blacker	1
Page def. Dabney in softball	Dabney	1
Page def. Ruddock in football	Ruddock	1

*But didn't care to ask.

Ye Olde Sports Menu

Saturday, December 4			
11:00 a.m.	Wrestling	Azusa Pacific, La Verne	Home
2:00 p.m.	Fencing	U.S.C., San Fern. Valley State	Home
Tuesday, December 7			
4:00 p.m.	Wrestling	L.A. Trade Tech	Home
6:30 p.m.	JV Basketball	Cal Baptist	Away
8:30 p.m.	Var. Basketball	Cal Baptist	Away
Wednesday, December 8			
6:30 p.m.	JV Basketball	So. California College	Home
7:00 p.m.	Wrestling	San Fernando Valley State, Cal State Los Angeles	CSLA
8:30 p.m.	Var. Basketball	So. California College	Home



Announcing

Contrary to Popular Opinion
(Including the BOD)

The ASCIT Dance is On!!!

Saturday, Dec. 4

8:30-11:30

Further details will be posted.

Garble Tom

Continued from Page Ten
Garble Tom got sick.

Not too long after this, the breakthrough came. Garble Tom went into the laboratory where the electronics professor was experimenting with the effect of various sounds on jamming the bats' sonar.

Continued on Page Twelve

Yesterday's Results

Wrestling:
Caltech 39, L.A. City College 12.
JV Basketball:
Rio Hondo Academy 108, Caltech 56.
Varsity Basketball:
Caltech 46, LIFE College 43.

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AT THE AHMANSON — [from the left] John Forsythe (Barney Greenwald), George Wyner (Dr. Bird), Hume Cronyn (Captain Queeg), Edward Binns (Challee), Bruce Davison (Keith), Edward Binns.

Garble

Continued from Page Eleven

A number of captured bats sat in cages. The professor was in the next room, looking at something, and Garble Tom was messing with the sound generator, when the professor suddenly shouted, "Hey, what did you do?"

"I was just turning these knobs and pushing these buttons. Why?"

"Every bat in the place is mesmerized. They're all staring at the sound generator. Don't touch a thing! Let me see the settings. Hmmm. A pure tone about 52,000 cycles. This is very interesting." It certainly was. It turned out that once you got the bat's attention with the 52,000 cycle tone, a number of tones, chords, and sequences of tones and chords had very definite and peculiar results. All of the basic tones were pure tones. The first was 14,000 cycles the next was about 18,000, and there were several others on up to the 52,000 cycle tone. The scientists explained that it had

something to do with the nerve paths in an ordinary bat's brain which run directly from the auditory centers to the wing-muscle control centers, which are there because a bat which is flying toward an obstacle needs to change direction fast. It also had something to do with the change in electrical balance in the bat's body which made conducting bullets so much more effective than others. At any rate, it was possible to give them simple commands which they would obey rigidly. The bats could therefore be rounded up simply by broadcasting repeatedly the proper sequence of sounds. Eventually the bats were exterminated, and the mountains were sprayed for the night-blooming fatals, so the whole problem was solved.

This took a while, of course. For several weeks there were news stories regularly about the progress the scientists were making, and the bats and flowers figured in several stories in "serious" television shows. Mission: Impossible destroyed a professional murderer who had nefarious plans for a handful of

seeds. And somebody who called himself Ricky Battigan published a book of poems which he said were about the affair of the bats, bees, and flowers, but as most of them were as obscure as one titled, "Phony," which was only two lines long as follows: "Supreme terror on violent experience rages-I have kept my promise," the public had to take his word for it.

But the bats were gone from the public mind long before they were gone from the mountains. The day the extermination of the night-blooming fatals was announced, Garble Tom made a special point of watching the news, but George Puntem ended his show without a word about it. His last item was introduced with a little crowing about the Cow Tech students who had not managed to sneak this silly item into his script. Just to be obnoxious, he read it anyway. "Mrs. Andorra Woodbine, who is four feet, eleven inches tall, has completed thirty years as a cleaning lady at the Orpheum Theater, today, so let's have some applause for little Orpheum Annie."

Audience

Continued from Page Seven

ters so realistic that one might well expect to meet such a person on the street is the greatest possible challenge to the actor's art. Cronyn has, in his past two appearances at the Music Center (as Rolfe in *Hadrian VII* and in *The Miser*), repeatedly demonstrated his mastery of his art. Queeg is quite a different role, and in its way more difficult in that all of the characterization Cronyn conveys appears in small, almost invisible, actions and in inflection of voice.

The play's protagonist, a philosophical Jewish lawyer serving in the Naval Reserve, finds an excellent interpreter in John Forsythe. Lieutenant Barney Greenwald is as much at trial with himself as at Lieutenant Maryk's court-martial as his defense attorney. He is a

brilliant trial strategist, but takes the case unwillingly, because it is as much a test of his own beliefs as of his client's innocence. Actor Forsythe brings out the essential humanity of the role in a very strong performance.

The other actors are highly competent, and support the stars well. A couple of the performances in the minor roles deserve special note. Gary Barton's rendition of Signalman 3rd Class Junius Urban is a classic witless dunce who always manages to say the wrong things on the witness stand. George Wyner as the eminent Freudian psychiatrist Dr. Bird is an excellent, though stinging, interpretation of a shrink. Henry Brandon is the tough old salt of a destroyer captain called as an expert witness in his role as Captain Southard.

The Caine Mutiny Court-Martial will be at the Ahmanson through January 8.

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