

Bradley Visits Centers On Urban Environs

by E. Gansner

In what turned out to be an eight-hour press conference, the Caltech YMCA sponsored a visit by LA City Councilman Thomas Bradley to the campus last Friday. With the discussion centering around the topic "Political and Technical Issues of the Urban Environment," Bradley participated in an Olive Walk Talk and an afternoon seminar in Winnett Lounge. The day finished with a dinner at the Athenaeum for Bradley, local minority group political leaders and active campus figures.

Bradley did not use a prepared speech for his olive walk talk, but conducted a question and answer period. After a brief lunch, Bradley continued the discussion in Winnett. At the seminar, he was joined by Dr. Norman Brooks, professor of civil engineering, Lester Lees, professor of aeronautics, and Dr. Roger Noll, associate professor of economics, all from the Caltech faculty.

Civics 1a

Bradley covered rapid transit and other urban problems. He felt that we have the means for rapid transit; we simply must be willing to pay for it. A broad tax base should be used to finance it, including some of the revenue that comes from the gas tax. He would like to see a system built with the year 2000 in mind. He considered rail transit or busses in restricted lanes as effective intermediate steps.

Bradley would like to see stronger laws and stronger enforcement dealing with pollution. He criticized the city departments for being hypocritical in their dealings with pollution. They claim to oppose it yet build new steam plants and pollute the rivers and harbor. In place of the new steam power plants, he offered atomic power generation or power production in an area that doesn't collect smog. He also mentioned the need of population control through zoning

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—photo by Levin

ROSALYN TURECK DOWNS receives plaque from Dr. Brown at dedication.

Finally!

Downs-Lauritsen Dedicated

by Paul Levin

Last Friday the Institute finally got around to dedicating Downs-Lauritsen, which had been occupied already since third term last year. In a short but impressive ceremony Dr. Brown presented the widows of George Downs and Charles Lauritsen with replicas of the steel nameplates which now adorn the two buildings.

The two-building puzzle was then clarified by the representatives from the Atomic Energy Commission and the National Science Foundation, Theos Thompson and Lloyd Herwig, respectively: The NSF contributed to the construction of Downs (the west half), and the AEC contributed to the building of the other half.

Howard Cary, Chairman of the Board of Cary Instruments, next spoke of his association with George Downs. Having been a consulting engineer on the outside, Downs continued in this role once he came to Tech, often with amazing results. Dr. Robert Bacher then did the same for "Charlie Lauritsen," praising his attention to detail, his striving for perfection, and his ability to solve and apply the wave equation.

After this Carl Anderson briefly explained what was being done in the buildings and what their future was. He then invited the guests to inspect

the facilities. After this the widow of Dr. Downs, better known as Rosalyn Tureck, gave a piano recital at the Athenaeum.

Research Projects Over; Funds Question

by Ira Moskatel

The research center is dead. Long live the research center!

The ASCIT research center along with the smog project is now being terminated. Left in debt, the research center's later projects have been inactive for several months now. The smog project is left with money in its account, approximately \$3000 by Institute estimates. The debts accrued by the other projects, including the various education projects amount to at least \$5000, with the final accounting yet to be made.

The smog project was the first of the research projects, initiated while Joe Rhodes was ASCIT president was originally funded with ASCIT and Institute grants which enabled its organizers to get a \$68,000 grant from Ford Foundation. Since then the smog project has received funds in varying amounts from several other national groups, including the National Science Foundation.

Immaculate Conception

The other projects were started after the concept of student research groups was extended to create a Research Center, working with students of other schools in the area. Included were USC, UCLA, IHC as well as students from other colleges. The new projects were to be created on a shorter term basis under the Research Center (ARC) which would handle procuring money and services for its subsidiaries.

The major projects were in the field of education, including one which brought several black students from Federal City College, in Washington, D.C., to work and study on the Caltech campus. There has been much controversy about the success of this particular project, and several questions of improper financial supervision have been raised.

Render unto Caesar. . .

The research center has been run as a subsidiary of ASCIT with an executive officer reporting to the ASCIT BOD. Its finances are a combination of ASCIT, and Institute managed. ASCIT cannot be given certification to accept tax-free grants. The Institute accounting office has handled disbursements from national agency funds.

The funds cannot be transferred from one account to another as the contracts with NSF limit the uses of the Smog Project funds. ASCIT has no outstanding debts outside the Institute, according to Dr. Lyman Bonner, because of the Institutes underwriting of the nationally-based grants. Two major figures, Flora Boyar, who was secretary of the Smog Project, and Charles Searce, a black student research associate, were unavailable for comment. Miss Boyar has transferred her responsibilities. Search has not been seen recently and is being sought in connection with the final accounting of the project.

A number of individuals have proposed new projects, to be started next summer. Administration sources have indicated their desire to see this one better supervised, but are not lacking in enthusiasm.

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Booth Has It All Over B&G Parking Lot

by Bruce Britton

No, Booth Computing Center is not going to fall into the large hole between Booth and Physical Plant. The newest campus dust bowl is the site of a 24,000-square-foot addition to the computing center. This will more than double the area available for computer processing, computing center staff, and information science staff. Construction on the building, which will cost an estimated \$1.2 million, was started on January 5 and is to be completed in the spring of 1971.

The new addition will have three floors, just like the existing section of Booth. There are, however, two interesting structural novelties. First, the addition will have the only balcony (all the way around) on campus. Secondly, instead of a basement, it will have a "garden level," similar to the ground floor

of some European buildings. The old and new sections of Booth will be connected on both the first and second floors.

The new facility is designed to enhance the data processing capabilities of the Institute, and provide better atmosphere for research in information science. The garden level of the new building will be devoted to laboratories for research in information science and bio-systems. There will also be a large lab for use in experiments in "information processing in social systems," as G. D. McCann, director of the Booth Computing Center, puts it.

The first floor of the addition will contain keypunching facilities for users of the computers, a keypunch service, the contact area, and user card deck storage. All of these facilities are currently in the basement of Booth proper. The vacated area in Booth will be given over to offices for information science. A new feature on the first floor of the addition will be individual customer cubicles and conference rooms.

The second floor will contain more offices for computing center staff, information science staff, and students. Now, wouldn't you like to have an office with a balcony?

This addition should, according to McCann, provide adequate room for at least the next five years, even though planning started two years ago. This is partly because no large increase of computer power is contemplated in the near future, although there will be some small additions in the area of peripherals. It is not expected that the needs of the campus, although hard to predict, will expand enough to outgrow our current computers in the near future. No great expansion of the information science effort is planned either, although McCann has been looking for two full

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News Briefs

In Nomine Deus Pacem, Tech Loses

Saint Francis De Sales Has His Day

Today, all proper Catholics, and several random other people, celebrate St. Francis De Sales' Day. In case you have not yet noticed, he is the patron saint of journalists. Considering the present state of the newspaper staff, we could use a blessing from our patron saint; in fact, we could use a blessing from any patron saint.

Also, for those of you who have not yet noticed, the Tech staff consists of several Jews, a Lutheran or two, and various sundry heathens.

Huttenback Now Rebates To Grad Students

In his continuing campaign to bring culture to Caltech, Dr. Robert Huttenback, genial Dean of Students, announced that grad students will henceforth be able to obtain rebates on tickets to live perfor-

mances of "cultural significance/redeeming social value." Rebates come to 50% of the cost of one ticket per event per student.

Both graduate and undergraduate students desirous of making use of the rebate policy should bring ticket stubs to Ned Hale. She can be found in the Dean's office in Throop.

Former Faculty Star Returns for Lecture

Dr. Woodbury, a former member of the Caltech faculty, presently teaching at the University of Massachusetts (Amherst), will lecture on innovative education and the California Institute of Technology. The lecture is scheduled for 4 p.m. this afternoon in 208 Dabney.

It's Official. IHC Will Go to Claremont

If you missed the ears last week, and the gossip this week, be it

announced that IHC will move to Claremont for September, 1971. In a statement dated Tuesday, January 27, Sister Helen Kelly, President of IHC, served notice of the same to the world at large.

Officially, the "conversations" between Caltech and IHC proved inconclusive, however, the story looks somewhat different behind the scenes. Apparently, IHC would have accepted an invitation from Caltech to move here, but faced a contractor's deadline which fell sometime between the middle and the end of this month.

Faculty sentiment here proved to be sharply divided, so that it appeared that several weeks at a minimum would elapse before the faculty could come to a definite decision. By that time, it would have been too late for IHC whether they were to move here or to Claremont.

Dichter to Play at

Beckman Friday; Guest With Techers

Caltech students and their dates have quite an evening in store for them this Saturday, when pianist Mischa Dichter will both perform, and stay for a reception afterwards.

Dichter is one of the world's most distinguished young musicians. His career started at the Julliard School of Music, the Caltech of music. He won the Tchaikovsky competition, and has a brilliant debut with the New York Philharmonic to his credit.

After a performance of works by Bach, Beethoven, Brahms, and Mousorgsky, Dichter will meet Techers and their dates in Winnett Lounge. sherry, coffee, cookies, and conversation will be served.

The program will include the organ Prelude and Fugue in D Major by Bach, a Beethoven sonata, three capriccios, a Ballade, and an Intermezzo by Brahms; and Pictures at an Exhibition, in the original score, by Mousorgsky [we end on this note].

A Proper Perspective

Objectivity and rationality in journalism are two goals which are very hard to attain, even though we all appreciate their importance. Often our emotions can cloud and mask the real significance of incidents, distorting our sense of proportion. We believe that just this sort of thing occurred last week in an editorial in this paper.

The editorial concerned an incident which occurred on January 16 in Page House. According to the editorial, an En15 Journalism class was interrupted by the protests of a student who claimed that a letter he had sent to the Tech had not been published. The student was particularly upset because the letter, which was critical of Dr. Dave Smith, had been shown to Dr. Smith without the student's approval. After a heated discussion, the class continued.

After the class was over and as one of the staff members was leaving, he was met by a group of Page House freshmen who attempted to shower him. The editorial inferred that the attempted showering resulted somehow from the incident involving the unpublished letter.

There is absolutely no reason to make this inference. None of the students involved in the writing of the letter participated in the showering or even knew that it was going to take place. In fact, all of the students involved in the attempt to shower the staff member were freshmen. When questioned, they said that the showering had nothing to do with the letter to the Tech, but was directed at the staff member because of his habit of writing on the blackboards before chemistry lectures. A number of such attempts have been made by other groups of freshmen because of similar activities. Such showerings are common, and seem to result more from good-spirited fun than malicious intent.

As a result of this incident involving only a handful of students from Page, the members of that House were described as barbarians. The House as a whole has also been threatened with a \$200 fine by Dr. Smith. We believe that this incident has been blown all out of proportion.

—Craig L. Sarazin

Objectivity and Rationality are best applied to a situation when a situation has actually been observed. Editor Sarazin was not present at the incident.

Clearing An Issue

Last week and editorial appeared in the *California Tech* complaining about an unfortunate incident in the student houses. It seems that the emotional reaction both to those involved in the incident and to the editorial has increased beyond all reason. This editorial is to explain the intentions of the column of last week.

Last week's editorial decried a practice and a standard of behavior, it did not call any individuals any names. We apologize for arriving at the conclusion that the showering was a result of Mr. Neches' action; however, we do not deem the action of the students involved in any way proper or desirable. The practice of showering has been called "A release of tension" by some. This reporter cannot see how an act, potentially violent and which has in the past actually injured several, as being a "harmless release of tension." We accept that the practice of showering has been present on this campus, as well as others, for many years. Many other very faulty traditions have managed to remain for that very same, faulty, logic.

As to Mr. Matoi's letter complaining that the *Tech* was charging all the members of Page House, that is hardly the case. Neither do we believe, however, that only the individuals involved in trying to shower Mr. Neches were the only persons at fault. Our research has indicated that at least one upperclassman had remarked that he thought Mr. Neches should be dealt with. If the argument that he meant jokingly when he called for action, we can only counter with the extreme example of Thomas a Becket, who was killed by two knights who had overheard the King telling his advisor that Becket should be dealt with. Needless to say no crime of great magnitude is involved. Nevertheless, our point is that those members of an organization who are looked up to must meet the responsibility with which they are faced.

We have repeatedly attempted to check out the matter of the fine. The last communication we made, on Monday with the Master's Office, indicated that no fine had actually been levied. Rumors told of a \$200 fine on Page House. Apparently some consideration of that fine was made. We believe it would be very unfortunate if such a fine were imposed. Attempting to punish a house by destroying its social program can hardly be deemed just.

Some action must be taken, however. In past years, it has been the responsibility of the Upper Class Committee in each house to deal with infractions of conduct. The UCC's are supposed to set an example for the rest of the house. Several witnesses claim that one of the UCC's was responsible for the remark calling for action. We think the proper action for the Master would be to meet with the UCC's (not only Page) to discuss the responsibilities of the UCC system.

A last word about the issues involved. A newspaper receives many letters for publication. The staff of the newspaper has a legal responsibility of checking every fact received. The letter submitted for publication, with the signatures affixed. As a result, the staff has the right to show it to anyone they deem necessary. Responsible journalism, including the most crusading editorials, demands factual accuracy as well as discretion. In the matter at hand a great deal more tact could have been used on the part of all involved.

The second issue involved is that the newspaper must operate free from threat. There is a difference between vocal complaint and influence by physical action. Freedom thrives in the former and dies by the latter

—Ira Moskatel

Letters

Matoi Questions Recent Editorial

Dear Editor:

When I read your editorial in the January 22nd edition of the "California Tech," I found it very amusing but not very factual. Admittedly papers do not have to be factual in their content to be published in the United States, and I am not suggesting censorship, but I do not think I should be forced to subscribe to a paper which allows falsehoods to go unchallenged.

Specifically, I wish to comment on the statement, "The members of the house (Page) attempted to

'shower' the individual (Phil Neches) and when they were met with resistance and a polite request to leave way, only responded with more force." I would like to point out that Page House has approximately 80 persons living on campus and there are around 50 others who are closely associated with the house, but who live off campus. If these members had desired to "shower" Neches, he would have undoubtedly been showered. The truth is that not more than 6 people attempted anything against

the individual. This amounts to less than 5% of the house members. However, it appears that you wished to charge indiscriminately that "the members of the house" were guilty of kidnapping.

In your next sentence, you claimed that "a large umbrella was broken by the house members." I was an eyewitness of the incident, and the fact is that only one person (idsregarding Neches who is not a member of the house) bent the umbrella. However, you have again disregarded the facts and laid the blame on the house. Admittedly a large percentage of the people present were apathetic when it came to defending the individual, but this does not necessarily imply that they were "allowing their most primitive emotions" to show.

This is an obvious injustice to the house, but I am not writing to ask for an apology for things probably looked different from your point of view, but I would hope that this letter, or one like it, will be printed so that the outside world may know what really happened.

—Tom Matoi

Doodle With Me here



Throop Beat

Thirty-Four Flick It In

by Etaoin Schroedlu

At the end of last term and over term break there were many rumors of huge numbers of Techers who were leaving the Institute, for one reason or another. As of Add Day (last Friday) the total number of students who were enrolled first term who did not enroll for second term was 34. Of these, four were frosh, 16 sophs, 5 juniors, and nine seniors. That's a nasty thing to do to seniors. Actually, 34 is probably high, as there are undoubtedly some trolls around somewhere who haven't registered yet. P.S.: Why do we have more juniors than sophomores?

Third Term Seniors

Dr. Miller reminds all seniors that students registering for an underload third term, a thing which seniors are noted for, will find their scholarships lowered to balance the lower tuition costs made of students carrying underloads. Apparently in the past clever people have tried to make a little on the side by taking underloads if their graduation requirements could still be met.

Zoo Lives!

Informed sources tell me that one of Caltech's great traditions might be returning to campus next year, in the person of Warren Burton. He is considering transferring in as a senior next year, from the wilds of East Anglia (that's England, fans), where he is currently lurking. Blacker may never recover.

So They Tell Me Dept.

The number of female applicants has now passed 50. Therefore, one highly-placed Institute administrator wins his bet from another highly-placed Institute administrator . . . One of the above administrators tells me that Tech frequently receives communications from some of the Techers who go away then decide that maybe they'd like to come back after all. He finds this very encouraging, as we obviously lose some quality people each year. (Some of our administrators, at least, are aware that this is a problem. . . . Why is the new Booth Addition going to have a balcony? . . . The usually-moribund committee on relations with the outside world has been busily meeting lately; could it be that we're going to admit the existence of that world?

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FRANKLY SPEAKING

by Phil Frank



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Editors-in-Chief Ira Moskatel

In Memorium —
Bruce W. Britton
John Fisher
Paul A. Levin
Ira D. Moskatel
Philip M. Neches
Edward A. Schroeder, IV
Nicholas D. Smith

Business Manager Ed Schroeder
Circulation Manager Metin Mangir

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Paul T. Wegener

What's That? Ecology???

by Paul T. Wegener
"Ecology" and "Environment" are two words much bandied about these days, yet remarkably few people seem to understand what they mean. This column is the first in a series attempting to define and expand these terms: what "ecology" means, some of the basic environmental problems we face nowadays, the concepts and ideas we need to understand to live with the world rather than take from it.

"Ecology" exists on many levers, so we shall start with the simplest. *Ecos* means "earth" or "house," *ology* means "the study of" "an understanding of"—together, the study of the earth, an understanding of it as a house, a family place to live. The simplest relationship we have to the world are common in everyday life—our nutrition is a good example. Plants take carbon dioxide, water, and sunlight to produce the many sugars, proteins, and other molecules we need to sustain life. The plants evolve oxygen in the process, which we absorb in our lungs and use to burn sugars and obtain the energy to run our own body machinery. We thus use energy that originally came from the sun and has been transmitted via plants and the animals that eat them. The carbon dioxide and the oxygen are used over and over in this simple cycle that underlies all life.

Sense of Community
Another ecological concept that underlies much of our thinking is the community-type: we all know that tide pools have one "King" of life, a pine forest another, the sage chaparral of Griffith Park another. These types, which we can easily visualize, are in fact ecological communities of many different organisms—bacteria, worms,

coyotes, trees—which are regulated and affected according to such factors as rainfall, seasons, available chemicals, altitude, and other "area factors."

We encounter "environmental" problems whenever men change these "area factors" by pollution, physical damages, hunting programs for large carnivores, fire control, or any of the other ways we try and control our surroundings. At a certain point, these changes may be so large or serious that we damage or kill off the community—then we have an eco-catastrophe like the Santa Barbara oil slick or the death of Lake Erie.

Ecologists' Work
Ecology is also a branch of science which studies in detail some of the complex aspects of natural systems in order to understand them better. Thus, an ecologist may study a single species of moth or barnacle to discover what range of communities it can live in, what roles it plays in energy flow or reproduction or other species, what it eats, and how its numbers are regulated. He might study this species because it is directly important to man, as the sea urchins which flood the coastal waters near Southern California, or the honey bee; or he may be interested from the even more practical standpoint of helping us to understand the natural systems around us so that we do not harm them.

Recently, some workers have been trying to develop computer programs that respond much like a natural community in an attempt to improve our skills in diagnosing or predicting responses to man-induced changes. The science of ecology studies the web of life, as John Storer called it, so that we will

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Nonacademia Revisited

A Set of Questions for the BOC

by Leonidas Guibas
Ruddock BOC Rep.

The Board of Control has recently entered a series of discussions concerning the applicability of the Honor System and the extent of the Board's jurisdiction in the so-called "non-academic" areas. Since a policy statement may be forthcoming it was thought appropriate at this time to request as much input as possible from the student body. Please feel free to discuss the matter with your house Reps. It is of great importance.

In an effort to clarify the issues involved I have tried below to both give them some perspective and describe them as precisely as possible. Although personal biases and unavoidable in any such description, I have tried to incorporate as many ideas as I could in the hope that any, or a combination of them might eventually lead to a satisfactory answer to the present pressing questions.

Let me start with a few remarks pertinent to the Honor System both as a moral principle and as a practical, working state of affairs, and to its relationship to the BOC.

Prized Tradition
m, Now the Honor System is one of the most prized traditions of Caltech. Few have disputed its moral value or its practical usefulness. Because it is a general moral principle, as opposed to a long list of specific rules, it places the responsibility on the *individual* for the justification of his actions. And thus, by creating self-respect first, it leads to an enjoyable atmosphere of mutual trust and openness.

Yet this is not to say that the Honor System claims to be a conscious force in one's everyday decision making. For a large part of the Caltech community it has

become an automatic part of their thinking. As with driving, if I may use the analogy, the repetitive application of its principles to a number of concrete instances has pushed the Honor System down to the level of the almost subconscious. Nevertheless it is a fact that traffic can flow smoothly without each driver being aware of all the skills that go into his driving. Similarly, despite its acknowledged significance, the Honor System functions without being an issue of everyday discussion.

Moral Machinery
Only when a deviation from the routine occurs it becomes necessary to call back to mind the full moral machinery of the Honor System in order to decide on a fair course of action. Thus the system is to a large

extent left up to individual interpretation, the rest being supplied by precedent. As a result, ideally, the system functions on its own. The BOC intervenes only when an action has occurred that can be considered as dishonest or unfair to other members of the community.

In practice, however, the number of borderline cases is so great that the Board occasionally feels the pressure to come up with "policy statements", settling unequivocally certain disputed areas in order to clear confusion and provide a certain uniform standard of judgment. Non-academic areas such as unauthorized entry or relations to outside companies operating on campus fall into that category. These policies should not be regarded as intrusions to the individual's morality but rather as conventions, consistent with the spirit of the Honor System, to be accepted for a more efficient operation of the community.

Defeats Purpose
I strongly believe the Board of Control has no business in drafting long lists of actions that constitute violations. This would be defeating the very purpose of the Honor System, namely to not only create an enjoyable atmosphere but to also teach individual responsibility by offering individual freedom. With this in mind the Board also ought not to issue policy statements in any way contrary to the opinions of the student body in particular and the Caltech community in general. Not only would the enforcement of such a policy be totally impractical since the Honor System is not and should not be policed, but also the Board would be overextending its authority in doing so.

I have tried to emphasize that the Honor System is a spirit of honesty that ought to pervade all relationships and dealings within the Institute. The BOC does not have the authority to define where the spirit is or is not applicable! Whether, though, all violations of this spirit concerning undergraduates should come under the jurisdiction of the BOC is a different, and still open, question.

Yet More Complex
Yet the matter is even more complicated. What exactly are the "non-academic" areas that trouble the Board? They are things like borrowing utensils from the Food Service for one's own personal use, off-campus students eating meals in the undergraduate houses without turning in guest slips, some minor theft that occurs for example from the refrigerators in the student houses, from construction sites or from the stockrooms, or questions of unauthorized entry into offices. Admittedly many such actions when carried to extremes could be properly called violations of the Honor System. Yet, in the majority of cases, where, as I like to believe, any malicious intent is lacking, these actions do not come under the Honor System not because the BOC has declared so, but simply because questions of honesty or dishonesty are not directly involved. I do not think of the Honor System when I take a coffee cup out of the dining room or when I get a second desert. But still the fact is that if everybody were to do this the Food Service would soon run out of cups and some people would be left without deserts. So such actions should be discouraged or prevented but they could not be properly called "Honor System Violations". Rather they should be faced for what they are, i.e. breaches of practical regulations imposed to permit the smooth functioning of the system. That the Food Service is under the Honor System by no means implies that all the rules it makes become automatically embodied in the Honor Code.

What to Do?
Now traditionally the above mentioned areas have fallen under the jurisdiction of the Board of Control. Punishment, when inflicted, has usually been reprimand with a request for reparations if appropriate. Presently, however, for reasons that were adequately explained in an article last week by Bob Fisher, the Board finds itself faced with an increased number of such "violations" and therefore with the dilemma of either ignoring them or having its efficiency threatened by having to call weekly case meetings.

This pressure has brought the questions facing the Board into focus: Is it the appropriate body to take care of those cases that fall more in the category of breaking a practical regulation or a common convention rather than "taking unfair advantage of another member of the Caltech community"? Does it have the time necessary? And if the BOC is not to deal with them, by whom are they to be handled?

Time VS. Reality
If it were not for the time required, there are some good arguments why these cases ought to be tried by the BOC. First of all it is a body of proven responsibility, in that respect almost unique among student committees on campus. Secondly there are always advantages to having someone tried by his

peers. This is essential in order to bring about confidence in the system as something essential in order to bring about confidence in the system as something accepted by mutual consent rather than imposed from above. So the question more specifically becomes what primarily student mechanisms exist or should be set up in order to handle those cases and how should they relate to the Board of Control.

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Making a Good Appearance with the Draft

Warning: To the best of our knowledge, all the information in this column is accurate at the present time. However, judgements by the courts or changes in the Regulations occur often. A counselor or lawyer should be consulted before taking any major action that will affect your Selective Service status.

The Personal Appearance
Any time you receive a Notice of Classification informing you of a classification action by your local board (not by the state or national appeal board) that was not itself the result of a personal appearance, you have 30 days from the date the notice was mailed to request a personal appearance before your local board. Simply write, "I request a personal appearance," sign your name and Selective Service number, keep a copy, and send the original Certified Mail, Return Receipt Requested, to your board. The board must grant such a request and will notify you as to the date and time your personal appearance is scheduled.

DON'T SKIP IT!
The personal appearance is the first (and for many classifications, particularly the conscientious objector ones, the most crucial) step in the appeal process. It provides the registrant with an opportunity to actually appear before and to talk to the people who exercise a life and death power over him: it is the only chance that he has to argue his case directly with the members of his local board. A local board will usually reject a claim for deferment if it has any questions. Usually, the only way a registrant can find out what the questions are in his case is by a face-to-face confrontation with his board. Once he knows the question or doubts, he may be able to convince the board to grant the desired classification by pointing out evidence in his file the board may have overlooked or misunderstood (local boards often prove to be extremely negligent in their review of registrants' files, particularly the thick files). Or the board may have been reluctant to grant the classification without first able to make a personal evaluation of the registrant's sincerity and demeanor (especially in conscientious objector cases).

The importance of the personal appearance estends much further than the effect on the local board. Should a registrant appeal directly to the state appeal board rather than attend a personal appearance and then appeal, the appeal board will often merely rubber-stamp the local board's decision. Appeal boards generally do not review a file very carefully unless prompted by a registrant's specific objection to the local board's classification action. Only through the personal appearance can the registrant attempt to determine the reasons why his claim was not accepted. If, as often happens, the local board refuses to specify the reasons, a careful report of the conversation and actions at the personal appearance may indicate the state of mind of the local board and provide a basis for the appeal. Such a report, written by a registrant who was well-prepared for his personal appearance, is also indispensable to any later challenge in court of the Selective Service System's actions. It is extremely difficult to establish local board error or prejudice at either the appeal board level or in the courts without this record of the personal appearance. After all, it is at the

personal appearance itself that the local board is most likely to commit errors or demonstrate poor judgement. The registrant may be able to persuade the board of its error. If not, he has the errors recorded in his report. The registrant who bypasses the personal appearance has left himself defenseless.

PREPARATION
A personal appearance is only a successful as the registrant makes it. A few hours of hard work are much better than several years in jail or in the armed forces. Anyone who goes to a personal appearance (and that should be everyone) would be well-advised to obtain a copy of *Face to Face With Your Draft Board* (by Allan Blackman, \$.95, available at the Free Press Bookstore of the AFSC, published by the World Without War Council, 1730 Grove Street, Berkeley, California, 94709) at least a month in advance of the personal appearance and study it. It is an excellent source of information and advice on how to prepare for and participate in a productive personal appearance.

This preparation includes 1. going to the local board in order to review and copy your file—you may be surprised at what's in it and, surprised or not, you need to know its exact contents; 2. obtaining additional evidence to support your claim; 3. preparing a list of positive evidence in your file and making copies to distribute to the board members at the personal appearance; 4. preparing a short written summary of the evidence and arguments for your claim (also to be distributed to the board); 5. preparing a list of evidence and issues you want to discuss with the board; 6. preparing an opening statement and answers to typical questions; and 7. thinking about your physical appearance.

WITNESSES AND LAWYERS
Witnesses who will support your claim may or may not be allowed by your local board. You should request that they be allowed and bring them with you to the local board's office even if your request is refused. Local boards will not allow a registrant to be represented by counsel at his personal appearance (although his lawyer may be admitted as a witness). However, registrants who anticipate eventual court action should be mindful of the recent decision in *United States vs. Weller*, in which the District Court for the Northern District of California held that a registrant has the right to be represented by counsel at his personal appearance. The decision may be overturned and is only applicable in the Northern District, but a registrant who does anticipate going to court may want to request that his lawyer be allowed to be present and advise him at the personal appearance. Other registrants may wish to avoid antagonizing their boards.

AT THE APPEARANCE
The registrant should use the personal appearance to attempt to draw out from the board the reasons that they have for not granting him the desired classification. He should seek to dispel any doubts raised and clear up any questions. He should try to clarify the main issues between himself and the board. He should not be lulled into optimism by a friendly or non-aggressive board but should always be seeking to find out why he has not been granted the classification.

AFTER THE APPEARANCE
Immediately after the personal appearance, the registrant should

write a dialogue account of what transpired at the personal appearance, including relevant gestures and facial expressions. The witness (if there was one) should write a separate report. The two reports should then be merged into a final report to be copied and submitted for inclusion in the registrant's file. The registrant should include in the report the complete answers he would have given to questions if he had not been interrupted (if interruptions occurred). He should give fuller explanations of issues he feels

were not sufficiently developed or understood. These additions to the dialogue should be marked as additions, with explanations as to why they are included.

The registrant will receive a Notice of Classification from the local board advising him of its decision. Should the decision be unfavorable, the registrant has 30 days from the date the Notice was mailed to appeal to a State Appeal Board. The appeal should be in writing and should be sent to the local board. The appeal must be granted if requested within the 30 days.

How Now, Dow Jones?

Tech Finances Vary

Stocks Shaft All

by Ira Moskatel
You think you've got problems with the stock market, do you? Well, then, how would you like to manage \$80 million in stocks and bonds investments subject to the vagaries of the Big Board?

Such is the problem faced by the men who have to manage the Institute's financial endeavors. With almost \$100 million in endowment and a yearly budget of about \$32 million, the treasurer of the Institute along with a Trustee's Committee, a vice-president and two investment firms have to assure that Caltech has the money to finance its educational and research activities.

The largest part of the Institute's fixed income comes from its endowment, or gifts and bequests from private sources. The income comes from interest and dividends as well

Continued on Page Seven

News Briefs

What A Molehill

Continued from Page One
Add Day Extended a Week Due to Journalistic Goof

On the second term calendar which appeared in the first issue this term, Add Day was listed as January 30th. Unfortunately, the Institute calendar pegged Add Day at the 23rd; however, the Registrar's Office has been kind enough to permit students to turn in Add cards late.

We know that the Tech has a reputation for perpetrating confusion, but . . .

Sing Out for Interhouse Coming Valentine's Day

With Interhouse Sing less than three weeks away, one begins to wonder what or who will enter. A quick poll of Dabney and Fleming failed to turn up any concrete evidence of organization for this event, however, the Glee Club is trying to get Peggy Lee for the master (?) of ceremonies.

Houses may enter in the following categories: large choruses (minimum of sixteen), small groups (six or less), and totally random. Groups may be vocal, instrumental, or mixed-media (blark!).

Seniors Who Want Photos Should Move Fast

If you are a senior, and you want your picture in the Bit T, and you have not done so already, drop in at Kent Photo Studios in coat and tie either today or tomorrow. After that, well, you'll have to see Chip Smith about it.

Good Grief! That's the Biggest Molehill I've Seen

Reports of frayed tempers resulting from the attempted showering of a *Tech* editor last week seem to indicate that enough hot air has been generated on the subject to fill the Goodyear Blimp. Before matters get farther out of hand, the following facts may help:

Dr. Smith has not imposed any fine on Page House as of our going to press. He has, however, been "considering" it carefully.

Also, many on campus, including some of those involved, have told both this reporter and Dr. Smith that they feel that a large fine would not be of any use. In the words of one person, a fine is useless because it generates more bad feeling . . . nothing positive comes of it.

Strongest reaction occurred in Page House, as owuld seem logical. However, a surprising amount of debate on the issue also occurred in Fleming. No indication is yet available on reaction in any of the other Houses.

Easy Chair Poets Meet Tonight

We have received the following communication, which we hereby pass along: there will be a meeting of the totem this thursday night, jan. 29, at 8:00 p.m. in rooms 5-8 Dabney. just of a nightly invisible essence. please be there.

Prints and Sculpture and Sculpture and Prints

The latest in a series of art shows now awaits your perusal in Dabney Lounge. Works by Paul Darrow and Ferenc Csenterly will grace the lounge for the next couple of weeks.

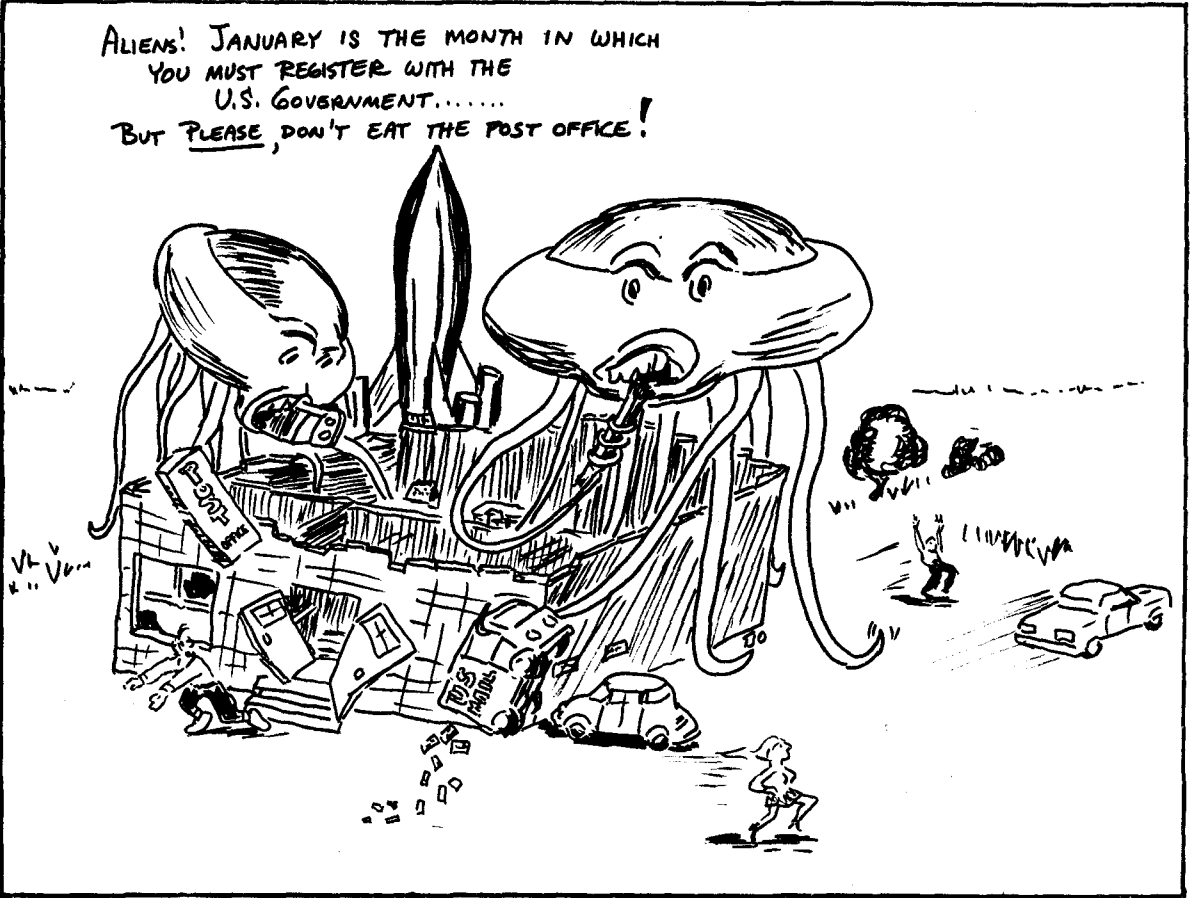
Both artists offer courses through the Institute Art Program.

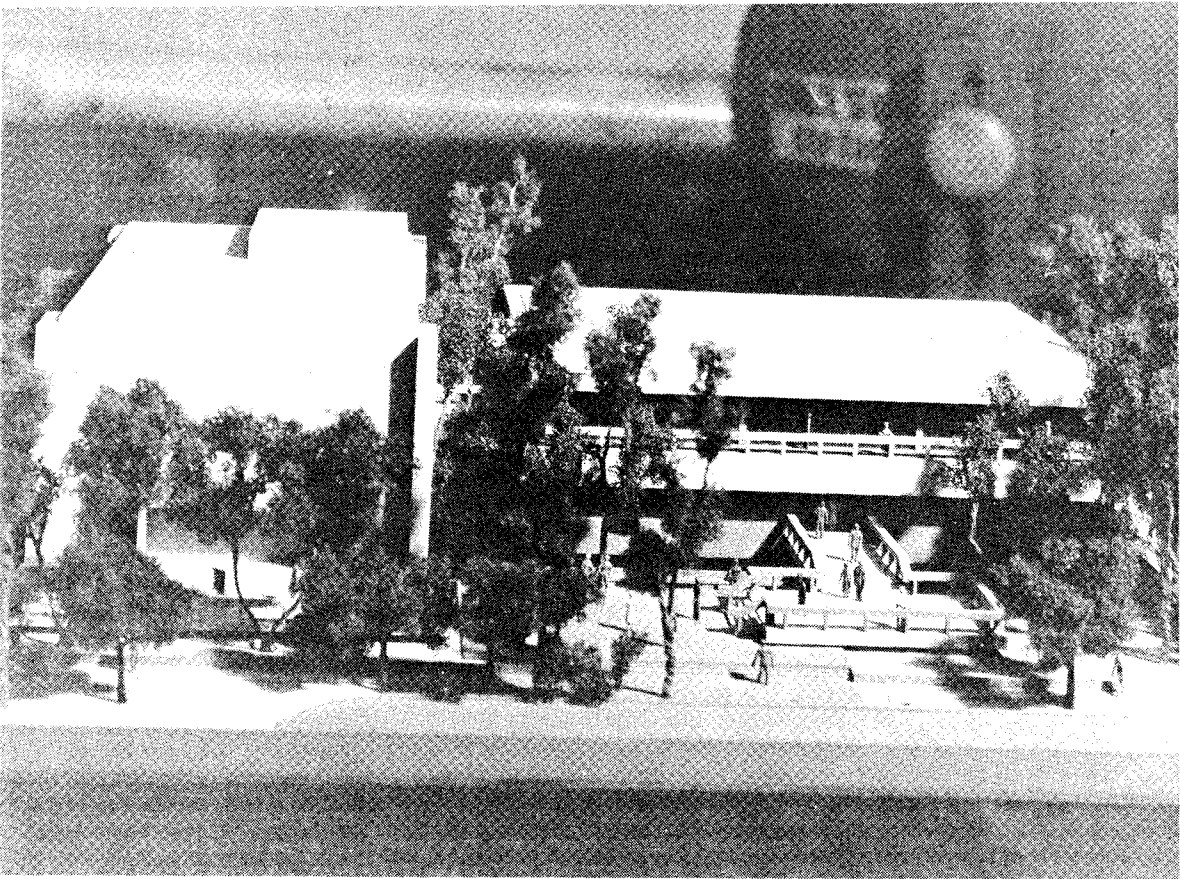
Sex and the Single Spider, And Other Things

You may have noticed a quasi-regular feature in the last few issues of the *Tech*, which hides under the title of News Briefs. As you may have noticed, almost anything is grist for the News Briefs mill. If you have a random activity you want publicized, or know of some useful bit of information, News Briefs is the illogical, but proper, place for it.

News Briefs are the creation of your fiendly Features Editor, who often has nothing better to write on a Monday night. If you want something printed therein, see Phil Neches in the *Tech* office, who will probably tell you that there is no space, but will print it anyway.

WE DON'T STAND ON PRINCIPLE,
WE USE THE FLOOR!





BOOTH ADDITION model shows balcony(?) and Garden Level below.

—photo by Moskatel

Booth Adds On!

Continued from Page One

professors to help fill gaps in the areas of stocastic methods and computer systems.

The addition to Booth will aid McCann and the rest of the biosystems and information science people in their research, as well as improving service to the Caltech community. The IBM S360/75, Caltech's batch processor, will continue to serve the campus. Our IBM S360/50, which runs the time-sharing system, will be the subject of several experiments, one of which is already in progress (a regional hook-up with ten other colleges). Among other experiments is a new system, called RELSYS, developed by a team headed by Professor Fred Thompson. Caltech's two other large computers will continue to be used in such diverse areas as biosystems and geology.

Bradley . . .

Continued from Page One

and a logical development plan.

Panthers and Police

When questioned on the recent confrontation between the Black Panthers and the police, Bradley said that the police acted too abruptly. He also stated that the police attitude of eliminating the Panthers to allow responsible Negro leadership to grow tended toward a police state and was conceptually wrong. For Bradley, if there are leaders, they will show themselves. He pointed to the public outcry over the affair as healthy and as the

most effective means of police control.

That evening many local minority leaders joined Bradley for a dinner at the Athenaeum. There, he participated in another question and answer period. Looking into the past, he blamed public fear and ignorance for his recent loss in the Los Angeles mayoralty campaign and gave concern for Los Angeles as his reason for not entering into state politics. He then alluded to his possible future political campaigns, centering around 1973.

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The Third Wing Political Pollution

by Nick Smith

The Federal Government, led by our illustrious President, has declared war on pollution, and it is a war (make no mistake about that). Unlike the war on poverty, this one has to be won if mankind is not to smother in its own refuse.

In his State of the Union message, President Nixon made pollution a major point, and although he offered only one concrete plan for the present, it is a start. Nixon proposed a \$10 billion program to build sewage plants across the land. (Someday, there may even be a few clean rivers and lakes again.) Also stated was the idea that the cost of any item, even cars, must be high enough to pay for all of the pollution problems it creates, including disposal. (Just think, no more auto graveyards or beer-can mountains.)

Most important of all, the President said, "We no longer can consider air and water common property, free to be abused by anyone without regard to the consequences. Instead, we should begin now to treat them as scarce resources, which we are no more free to contaminate than we are free to throw garbage in our neighbor's yard. This requires comprehensive, new regulations."

New regulations are indeed necessary, and with them vast studies of what these regulations can and will accomplish. The effects of measures can not be taken for granted. For example, there was,

and probably will be again, a bill in the California Legislature that would have banned the internal combustion engine in a few years. The front runners for replacements are steam and electricity. (By steam, I mean vapor, not necessarily water vapor.) Simple calculations show that if the whole country changed to electric cars, the power output of the country would have to double in order to be able to recharge them. Steam cars have their own problems, such as the lack of a lubricant good enough at high pressures and 1000 degrees. You begin to get the idea.

It turns out that pollution is a bigger monster than most people think. It may even trigger another Ice Age. From figures issued by UC Santa Barbara, Penn State's College of Earth and Mineral Sciences, and the U.S. Environmental Science Service, it seems that the average temperature of the whole world is dropping. In the last thirty years, it has dropped about one-eighth of what has been calculated as necessary to trigger an Ice Age. These studies indicate that this drop is largely due to atmospheric pollution. You figure it out. If pollution continues to expand, it's ended. Everything.

I'm not a fanatical conservationist or crusader. I'd just like to be able to eat and drink and breathe, and for my descendants not to freeze. I don't think that's too much to ask.

David Miller Consumer Reports, Non Inc.

Consumer complaint department of the L.A. Times, April 3, 1970 (all letters forwarded to the appropriate manufacturers)

Dear Hai Karate,

I have used your after-shave lotion for two weeks and I haven't had to fight off any lust-maddened girls yet. However, for the past three days a female basset hound has been following me with a peculiar... (ed. note: The manuscript is torn dirtied and blood-stained. Police have found thirteen paw prints which are clear enough to provide positive identification) Reply from the makers of Hai Karate: To whom it may concern (since our correspondent has gone to the big Playboy pad in the sky):

The active ingredient in Hai Karate is dehydro-deoxy-phenyl-2,2-bis (mercaptoethanol)-thioazotropin. WE thought it was common knowledge that in atmospheric concentrations detectable to the human nose it causes a condition resembling human terminal paranoia in members of the basset and other hound breeds which have the inborn metabolic disorder known as Norizaki's Condition. If that last sentence hasn't confused you, we urge you to read the discussion titled "The Menace of Berserk Bassets," starting on page 42 of the Hai Karate Danger Manual. Do you really think we would go to the bother of writing a 59 page handbook for a shaving lotion if something funny weren't going on?

Dear Sears Kenmore,
Please forgive me for writing to

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Andrew Chow - Dabney House.
449-9617

you as I don't use one of your machines, but no one will tell me how to muffle my washing machine. I learned to live with the booms the power detergents made, but the chomping noises from the enzyme detergents drive me out of my tree. (And when I forget to use the ladder that is a bad scene.) What should I do?—Black and Blue and Nervous

Dear B,B, and N,

How many of there are you, anyway? First, buy hospitalization insurance from our Allstate subsidiary, then get a lightweight aluminum ladder from our Home Products department. We also sell a complete line of all-weather mattresses which you can leave outside if you keep for- getting the ladder. We don't have much hope of getting you to buy anything from us if you're that absent-minded. At a monimal extra cost (meaning that it is big enough to deserve the name) we will supply you with plastic covers to protect you from the sharp corners on the extruded aluminum ladder.

All we can do for your washing machine is recommend that you use Squelch in it. Squelch is a totally new concept in washday revolutions; since you do not have one of our machines we feel free in recommending it.

Consumer Reports Special Bulletin, March 1970:
"Testing and analysis of Squelch chowed that it contains at least thirteen enzyme additives and four inert ingredients. No trace of soap or synthetic detergent was found. Squelch is supposed to digest all dirt. It does not. However, after thirty-seven hours of standing in water,

all organic material in the clothes we were testing, and the Squelch, Continued on Page Eleven

The Tech



About Town

No particular town, but the idea is there. Don't you wish you had a magic mirror in your head? Let's go!

Ash Grove has Doc Watson and Seals & Crofts until Feb. 1th, a good combination in itself, and on Feb. 6-8, the Byrds fly into the Grove. The whole thing is at 8162 Melrose.

The Golden Bear probably has

Biff Rose from now until the 1st. (Gilding the bruin just doesn't sound right.) 306 Ocean Ave, otherwise known as U.S. 101, in Juntington Beach, is the location, if you dig driving.

The Ice House, at 24 nearby North Mentor, has Tim Morgan until Feb. 1, along with Lambert & Nuttycombe. See Frets and Frails (there is one this week) for details. The Dillardards start playing on Feb. 3.

Shelley's Manne Hole is for jazz, which is rarely spelled backwards. Willie Bo Bo appears until Sunday, the 1st, and the Jazz Crusaders play from the 3rd until the 15th. It's at 1608 N. Cahuenga Blvd. in Hollywood.

Troubadour, at 9081 Santa Monica Blvd. in The Big City, is featuring Phil Ochs and the Dillardards until the 1rd, this Sunday. Tim Hardin is there from the following Tuesday, the 3st.

The Whisky A Go Go, the primarily dancing place of the lot, is featuring Cat Mother and the All Night Newsboys this weekend, at 8901 Sunset.

The following rock, classical,

pop, and otherwise concert locations are not alphabetized.

Royce Hall at UCLA is mostly classical for a while, with one exception. Alirio Diaz is there on Jan. 30, followed by the Herbie Hancock Sextet on the 31st, an exception if I ever heard one. (Jazz, in fact.) With hardly time to sweep the ice, the California Chamber Symphony appears on Feb. 1.

The El Camino College Auditorium is featuring the Juilliard String Quartet every Friday and Sunday until Feb. 8. They also have soprano Bella Rudenko on Feb. 3.

The Santa Monica Civic has a concert on the 31st, with the Youngbloods and the Sons. The place is quiet for two weeks, as if in a hush preceding JUDY COLLINS on Feb. 14.

The Anaheim Convention Center is flying Jefferson Airplane on Feb. 7.

Bovard Auditorium, at USC, has John Sebastian in concert on Feb. 7.

With all this going on, don't just sit there, sit somewhere else.

(Note to editors: I'm too opinionated not to have a byline!)



PIANIST MISCHA DICHTER will perform Saturday night at Beckman.

Fly Away

'Moths' Without Faults Or Meaning

Every reviewer must develop a good idea of the qualities that make a good movie. Careful consideration of *The Gypsy Moths* is of immense help in such a development. *The Gypsy Moths* has no glaring faults; the photography is excellent, it moves quickly, it is told straightforwardly; a number of fine actors perform professionally. Possibly, one could blame the picture on the director (the *non-auteur* theory), but the errors are of omission rather than commission. It is not even a magnificent failure like *Camelot*. What causes this movie to be so dismal?

The gypsy moths are a trio of itinerant stunt skydivers, Burt Lancaster, Gene Hackman, and Scott Wilson. They are playing a small town in Kansas, the home town of the junior member of the team, Scott Wilson, on a sweltering July 4th weekend. They spend the night before the show at the home of Wilson's aunt, Deborah Kerr. During the night the Aunt seduces Burt, Hackman picks up a topless dancer, Wilson fails to seduce his aunt's boarder, Bonnie Bedelia, and the theme of the movie is established. Each of the men and women engage in their respective activities in a desperate search for freedom in their lives.

Burt Lancaster, alone, understands the need for freedom. "Skydiving is not only a way to live but a way to die." Miss Kerr was

trapped in a loveless (and of course childless) marriage; she flails out hopelessly against the boredom and misery of her life. Lancaster asks her to leave with him; but she refuses. The next day Lancaster doesn't bother to pull his ripcord and lands with the most spectacular Whump! in all moviedom.

The movie is now half over. The team then decides to put on a special performance the next day. Wilson performs the same stunt that killed his partner and pulls the ripcord approximately fifty feet above the ground. Wilson then gives up skydiving and leaves the now-seduced Bonnie Bedelia. The End.

It could have been very good. The tragic hero whose flaw is the need to control his own life and whose heroism lies in the ability to do so is a magnificent theme. The motif is spectacularly suited to the medium. There are few sports which are visually more effective than skydiving. However, characterization is essential to any movie with so

Continued on Page Eleven

The Beaux' Stratagem

We Should All Do So Well

by Pat Riley and
Paul Levin;
Sharon Mason and
Phil Neches
TECH Drama Staff

If *The Beaux' Stratagem* is as fun to do as it is to watch, then Robert Stephens and Maggie Smith must be having a grand time at the Ahmanson Theater. The National Theater Company of Great Britain brings a great deal of talent to this production, which fully develops the art of being risqué without being gross.

George Farquhar (pronounced Faf kwär, folks), one of the best Restoration playwrights, completed this play shortly before his death in 1707. The play reflects both its author and the period in which it came trippingly off the author's pen.

Restore Indecency!

The Restoration, for those of you who missed History 1, lasted from 1660 to about 1710. In terms of real events, this translates from the disestablishing of Richard Cromwell as Lord Protector (the British had some amazing euphemisms for absolute dictator) through the reign of Queen Anne, the last Stuart.

Philosophically, politically, and socially, the Restoration represented a reaction against the excesses of the Puritan spirit under Oliver Cromwell, who wanted to save England's soul regardless of whether or not England wanted its soul saved. Such blatantly wicked subjects as sex were once again subjects for legitimate theater. In fact, theater itself was once more a legitimate pursuit.

Farquhar, thus a son of the Restoration (what a phrase!), found little resistance towards his becoming an actor. However, while playing a fencing scene, he once forgot to exchange his sword for a foil, with nearly fatal results to the other actor. While the Restoration Stage lost one actor, posterity gained one excellent comedy writer.

After leaving acting, Farquhar attempted to make a fortune by marrying one. Alas, his plans did not materialize. However, from the experience, he wrote *The Beaux' Stratagem*, the story of two destitute gentlemen who proved more successful at the same game.

The Plot Thickens

You, too, can marry into beauty and money! Just attend Farquhar's

school for scandal for one night. The lesson will prove both painless and hilarious.

First, you need a conspirator to play your servant (rich heiresses like to think that they are marrying rich men, besides which, a servant like Archer (Robert Stephens) generally does quite well for himself, too). Second, find a quiet part of the English countryside in which a few unattached, rich beauties lurk. If these lack, then rich married ladies who dislike their husbands will do just as well.

Rogue for All Seasons

You then proceed, by fast talk, deception (white lies are not sinful), and maneuver, to work your way into the amorous affections of the desired young lady. Within a few scenes, the young lady will be plotting just as furiously to get at you. You now have the best of all possible worlds, provided that you do not suddenly become too honest.

However, should this befall you, all is not lost. If you have played the game properly, fortune will bring both your lady love and scads of money your way. If not, you will be doomed to die an excellent but bankrupt playwright.

To Your Imagination

The Beaux' Stratagem can be as risqué as your imagination. In the words of the prophet, "If you haven't done it, at least you've thought about it." Farquhar proves that intimation and subtlety far outweigh pure shock value for titillation.

To help you along, the National Theater Company brings out every turn of plot and dialogue, character and staging conceivable. For example, in one scene, Thomas Aimwell (played by Ronald Pickup) fakes a fit. While Lady Bountiful expounds on the treatment of same, Aimwell finds himself nestled in Dorinda's bosom. The audience hardly notices Lady Bountiful's monologue.

On Stage

The Ahmanson comes through with its typical snowy set design, which handsomely complements the National Theater Company's impressive acting. Rene Allio made the most of the great resources of the Ahmanson in a manner which does great credit to both of them.

The NTC comes off with equal finesse. Maggie Smith reaffirms her

position as one of the world's greatest comedienesses. Ronald Pickup as Thomas Aimwell and Sheila Reid as Dorinda turn in excellent performances.

Leading Rogue

Robert Stephens, as Francis Archer, performs so well as to defy description. In words of one syllable, he is great. Even if the rest of the show had fizzled (which it decidedly did not), his performance makes *The Beaux' Stratagem* well worth seeing.

In an exclusive, but not too private interview, Stephens confessed that the play is a great deal of fun to do. Comedy is more fun to do than drama because the audience responds, rewarding the actor, he said. Because of its size, the Ahmanson requires an actor to be expressive with his whole body, not just his face, which makes the play quite energetic. (Incidentally, it is trivial to sit down with a sword buckled to your belt, if you know how to do it.)

In the Lemonlight

Ideally, he said, a theater company should perform a different work every night in a series. This is what the National Theater Company does at the Old Vic in London. As a matter of record, the NTC spent none weeks rehearsing *The Beaux' Stratagem*. The other play they will present in Los Angeles, Chekhov's *Three Sisters*, has been part of the repertoire for two-and-a-half years. American theater may be saved from Broadway by the rapid emergence of new theaters about the country, especially in Los Angeles and Houston, Stephens said. He thinks that the Music Center is "stunning," and that it would take 30 years to get such a structure in London.

Student Power

"I love student audiences. . . I think they're the best. . . You can't fool them (with less than a first-rate performance). . . They are terribly stimulating."

So if you want a vastly entertaining evening, see *The Beaux' Stratagem*, which runs now through February 7. Also, the National Theater Company will present Chekhov's *Three Sisters* February 9 through 28, also at the Ahmanson.

Elliot Martin, we're proud of you: in case you haven't noticed, this was a rave review.

THE MUSEUM
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THE MUSEUM is an international folk dance cafe in Pasadena that encourages the pleasures of ethnic dance and music. The most esoteric requests can be filled, while the more common joys are sensitively provided for: meeting friends, playing chess or backgammon in the patio, or simply mending frayed nerve ends over a cup of coffee. The mood is casual, the people are warm and enthusiastic.

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**"nuttiness
triumphant"**
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**"rib
cracking
comedy"**
—JUDITH CRIST,
TODAY SHOW

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"TAKE
THE MONEY
AND RUN"**

CO-FEATURE
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COMING FEB. 18 **"OLIVER"**

Now Is A Dying Age

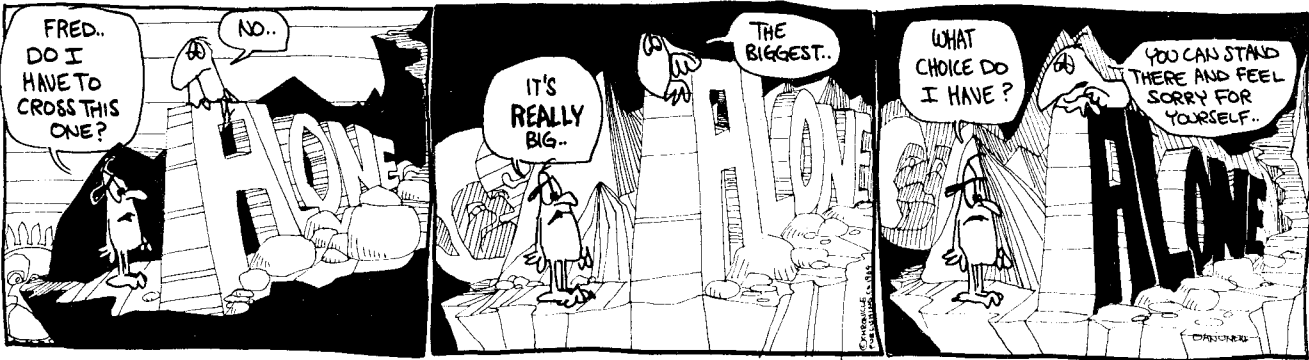
The death of the old West gave birth to a new kind of hero; the gunman who is unwilling to adapt to changing times. Two recent movies (employing entirely different approaches) have portrayed these men. Each movie has used these men for commentary on today; both imply that now is a dying age as well. Neither movie could have been made before today; both are movies of today. *The Wild Bunch*, Sam Peckinpah's masterpiece, was the most violent movie ever made. *Butch Cassidy and the Sundance Kid* is the movie of the comic hero. Butch and Sundance (Paul Newman and Robert Redford) are the leaders of the Hole-in-the-Wall Gang, a group of bank robbers and (on bad days) train robbers. From the beginning they are supremely confident and magnificently blasé about their jobs. They are entirely unable to take themselves seriously. They and their woman, Etta Place (Katharine Ross), are forced out of the West by the new technology. E. H. Harriman of the Southern Pacific Railroad declares war on the Gang and wins. They travel to Bolivia and start a new life—robbing new banks. In the end Etta leaves and they are killed by almost the entire Bolivian army.

The only possible criticism is that the few serious moments are painfully thin. This judgement is wrong. No comic hero may have serious parts to his life. Falstaff is the perfect example. The weakness of the serious parts merely emphasizes how unimportant taking life serious is to them. The reason they are heroes and not mortals lies in the fact that they know who and what they are. They are not willing to transcend their era; although they are able to. They could have gone straight and succeeded; their greatness is in that they recognized that going straight is unnecessary, and is not better.

Butch and Sundance are apropos to today because the present is also a transition era. People today are again confused and overwhelmed by the change in recent times. Butch and Sundance are prototype of

Continued on Page Eleven

B
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S



The Critical Ear

Denny Brooks

Born 1822, Dead 1830

DENNY BROOKS by (as it turns out) Denny Brooks, Warner-Seven Arts 1822.

Denny Brooks is one of those performers who is better in person than on a record. Don't get me wrong; his record is good, it's just disappointing compared to hearing him live. I know it's not a musical change, because the same people did much of the album accompaniment who appeared in person. The vibrant, vital quality of his music just doesn't record well. Denny Brooks combines folk and rock in a manner sort of like the early Byrds, but including things that the 1965 audience wasn't ready for. For example, how many Jan and Dean fans would dig a rock version of Joni Mitchell or Gordon Lightfoot? Denny Brooks pulls it off with the music of the two Canadians and many others. The musical arrangements include acoustical, steel, and electric guitars, bass, drums, oboe, piano, and occasional horns and strings. These combine with Denny's voice to form a folk-rock sound that you should listen to. Purists will not like his versions of some songs, particularly "Wherefore and Why" and "Both Sides Now," because he changes the style in which they are done, but most of you probably won't mind once you've heard him. If you get the chance, give either him or the album a listen. They're both named Denny Brooks.

—Nick Smith

Down Jazzed Up-Tight Side-Souled Dad

by Jonathan V. Post

It was the evening of the ultimate new-year in the sintered-sin center stun-sender world capital of Brasilia. The lofters were floating, the hellbents twisting, the quantum queers sitting entranced in their coruscating fantasy-flaming spectrum-spanning fireballs. Polysync music blended with cybeat and the almost incomprehensible hyper-rhythms of upjazzed badbeat. Lights flickered in a seven-against-eleven doubletime, and mad Moog magic mutated musical mandalas.

"It's bad, real deep-damned bad, these kids today. . . ." lamented a forty-ish creep in a fluorescent neopryl spin-suit. "Yeah," agreed his aging pal. "When we wuz kids, yah blew yer mind fer a kick. Now these stupid freaks jam down for an upjazz jolt. Yah can't reach 'em when they're up, and they can't tell yah nutin' when they're down." "Yeah." "Happy New Year," grumbled the glow-gowned clown, pulling a self-light narco-stick from his ankle-pocket, "Merry Millenium, goddamnit!"

As the physics professor strode up and down the aisles of the lecture-hall, arm-waving and lecturing stridently, a clump of bedraggled students in the back row surreptitiously passed a decimeter

metal cylinder around, occasionally touching it to their foreheads and smiling in a curious, twisted fashion. "Therefore," continued Professor J. Hadley Gurnspeed, Ph.D., Post-doc.3, as he gestured at the tri-D visual "trivvy" diagram hanging above him, "phonon-hole coupling in a Vanburen superconductor, like activated gadolinium telluride, allows generation of extremely intense magnetic field, in excess of a gigagauss in some cases. Fields of this strength can alter the ion concentrations in nerve cells and alter the human neural network in complex, little understood, and probably dangerous ways." The kids in the back row passed the stun-sender with its activated gadolinium telluride magnistor and gleefully altered their neural network in complex ways. "Upjazz soulsync mindmute!" grinned one. "Betcha tantalum tintype, twister!" smiled another.

Overwhelmed by the supersensory mind-mash in the upjazz jivejuice jumpjam jungle of way-uptown Brasilia, the two tourists stared at a clump of youngsters ?pingomg in a swimpool. "They don't seem to be doin' nuthin'." commented one. "Yeah." agreed the other. "That's kind of unusual, ain't it"

Continued on Page Ten

LIVE DEAD: *The Grateful Dead*; Warner-Seven-Arts 1830

The Grateful Dead seem to hold the dubious distinction of being the best known group that hasn't really gone anywhere. They have just hung in the limbo of being well-known but not super-stars.

Some explanation of why the Dead hold this unique position can be found on their latest album, *Live Dead*. The double record album is exactly what it claims to be, a live performance on record. This is to be distinguished from the recorded live albums. The Grateful Dead have a very different approach to concerts. Rather than play ten songs in 45 minutes and making their performance a live record, they take three or four long things and play them non-stop. In the surroundings of a concert with lights, people, and other ethereal elements, this can be quite an experience. This the Dead do well and explains their continued popularity in concert.

When this is transferred to a record, a large portion of the total effect is lost. Having what is really one piece go over three sides of a record makes for confusing listening. Having lost the environmental support, the length also can become rather monotonous. My advice is to spend your money to see the Dead live, dead *Live Dead* doesn't make it.

—James Henry



Finances

Continued from Page Four

from interest and dividends as well as from the sale of selected stocks. The invested portion of the endowment is approximately \$80 million with the remaining \$20 million invested in areas with constant income. The fixed income investments, mostly land, are designed to produce a constant percentage return, now running about 7-7½ percent. The stock market investments are designed to produce income and appreciation, or growth. In the past, the income from sales and dividends has averaged about 3¼% with the endowment increasing approximately ten percent per annum. This year has been a great deal less than average, with a Trustee's report showing no net appreciation of investments. In other words, no increase in the egg.

\$ \$ \$

The show this week at the Ice House includes a couple of repeats and a new (at least to me) singing duo. That duo is Lambert and Nuttycombe, (Garfunkel, eat your heart out) and they turned out to be reasonably good. They evidently write their own material, and in spots, it shows. They seem to be very competent guitarists, and have good voices, but they seem to get carried away with the lyrics at times. Anyway, they are pleasant to listen to, and will probably get much bigger in the music business.

George Hopkins was back again, for better and for worse, as the comedy act. He was better than the last time he was at the Ice House. This time, he was quite funny in spots. Whenever the audience didn't react well to a particular bit, he

made them laugh at the fact that they were not laughing. He threw in a few jokes to which the audience gave thunderous rounds of silence, but that was largely due to the fact that it was hard to tell he was joking. His best has gotten better and his worst hasn't gotten any worse.

The headliner until Feb. 1st is Tim Morgon. Publicity agents have stuck him with all kinds of tags, like "Mr. Communication" and "Hero of the Pepsi Generation," but he's really just a good singer. His style is hard to describe, but it's a little bit like what should have been in between the old Dion, Elvis, and Rick Nelson and the new Dion, Elvis, and Rick Nelson. He has the smoothness of the latter without losing the force and vibrance of the former. A couple of the songs he did didn't seem to fit his style very well, such as "Dock of the Bay" and "Hey Jude." Most of the songs he did sounded quite well, like "She Belongs to Me" and "Everybody's Talkin'." He's good. Go see him.

Denny Brooks, who records for Warner-Seven Arts, dropped in for a set. He did Dylan songs, songs made big by Judy Collins, other things, and had time for a Lord Buckley monologue. He's rock, and he is good. See what you're missing?

—Nick Smith

at the ICE HOUSE

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Down the Tubes

Transcendental Registration

by Etaoin Schroedlu

Ed. Note—Some of our older readers may remember that from time to time in previous years the Tech presented accounts of life at another college, the Mythological Institute of Theocracy, as told by Edward B. Barrelmaker, a student at that institution, to the Tech's Jim Cooper. My personal opinion is that these glimpses of life at another, very different institution from our own are of great value, and since Mr. Barrelmaker is no longer capable of communication with us, I have persuaded my good friend, Mr. Edward A. Miller, who attends the Camelot Institute of Transcendentalism, to relate to us some of his experiences at that world-famous seat of learning, which is probably the intellectual leader in its field. I shall try to explain any terms or customs which are unfamiliar to us which Mr. Miller should use. His first communication was about Registration for classes.

Student Edward A. Miller of the Camelot Institute of Transcendentalism pushed back his chair and flexed his weary writing hand. "Gee, all this stuff to fill in for Registration is sure a waste of time," he remarked to the fellow Transient in the next chair. "I don't know why the Institute doesn't do anything about it."

"Don't complain," said that unsympathetic individual. "Remember, 'The Truth Shall Cost a Fee'." But Miller noted that the use of the Institute Motto, which normally was an encouragement to him, seemed to do nothing for his aching hand.

The Truth Is

The student on the other side of the table was more inclined toward conversation. "I do think that you're right, Miller. After all, not all of these organizations could possibly need to know all this about each of us. Why, I don't think there's been a Vaihingerian Society on campus for several years now, but we're still filling out a card for them."

"Oh, you're probably right, but remember, things are getting better every year," said Miller's CBC from down the table. (Ed. Note: CBC means cell block chairman, a rough approximation to our own 'UCC'.) He continued, "After all, this year we're meeting our Phys. Ed. requirement by successfully completing Registration."

Very Precious

"That's true," admitted Miller. "But I never liked P.E. anyway, and see no need for it to be required here. How many cards do you have left to do?"

"Oh, only about twenty; I got up early," replied the CBC, as univormed first aid personnel rushed to the corner of the room, to the aid of a Transient who had fallen a victim to the paperwork. "Taking any electives this term?"

Therefore

"No, just the standard schedule," said Miller, as the CBC turned to officiate another argument about the system used to determine when new terms at CIT began. Miller was himself a firm believer that CIT used sunspots to determine this, as no other agency could be so random in its scattering of vacations, and so ignored the argument, pressing on with his card work so as to be able to finish by dinnertime.

But the relative silence of the room was soon broken by an anguished upperclass Kant major, who had just discovered that one of his option courses was scheduled for 5:00 a.m. three days a week, and Miller, in search of a more quiet

location, removed himself to the coal mine tunnels underneath the campus. "I'm glad I was lucky," he said, remembering that all of his courses had scheduled times listed back at Initial Trial Pre-Registration time five months ago, and he had not been scheduled for any particularly bad hours, other than one Sunday morning class.

After several hours' more uninterrupted work Miller managed to finish and returned to the Registration building, glad that he was no longer a freshman, as their lines were many times longer than the upperclass lines.

Registration finally over, Miller headed back to his cell block with a friend who had also finished. "Well, did you get all the courses you wanted?" he asked.

"Oh, yes," said the friend. "I even managed not to get any conflicts, although I'll have to miss four meals a week. In fact, my courses sound so great that I can hardly wait until they start next year. It seems a shame that there are still two terms to go before the one we registered for today starts."

Philosophy Is Money

Beauty Titles Prime Attraction

by Bill Bradley

Judging from recent ASCIT activities, nudity seems to be the coming thing. Just ask Terry Colling, of recent erection lally fame, or Rindy Martin, Miss California Go-Go, currently appearing at the High Life.

Rindy came on campus last week in conjunction with Party-Party publicity and afterwards shed some revealing light on the philosophy of topless dancing. Her philosophy is money. She nets a kilobuck a week. Her many beauty titles have made her the prime attraction at the High Life and the best known dancer in Pasadena.

Dancing, she's the typical California blond: not too bright but mmmmmmmoi!!! What bazooms!! Barrington Pictures liked what they saw: they starred her in "The Sunset Strip," a full length movie soon to be released about—get this—a young starlet and how she

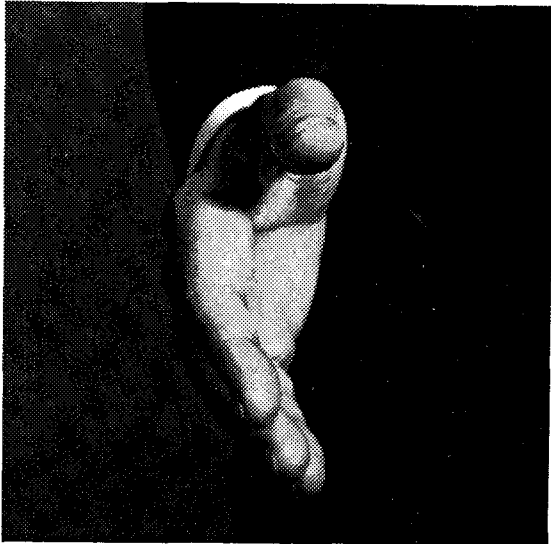
gets to the top. It may be an autobiographical sketch for Rindy Martin has appeared in several other films, including one with Walter Brennen and Tim Rooney (son of Mickey). She has also appeared on Bonanza with Hoss and the boys. But her lucrative Dumb is just an act.

Offstage, Rindy acts more like the \$50K/year business executive she is. She is the president of a corporation concerned with the ooperation of several nightclubs including the Mardi Gras Lounge in downtown LA. She is currently building a millionaire's club—also in LA—complete with gym, sauna, bar, and cardroom. For kicks, Rindy races horses. She has her own thoroughbred, a two-year-old named Sunny Dress who races at Santa Anita and Hollywood Park.

So the next time you can't get up for Apostol, go snake applied economics with Rindy Martin—at the High Life.



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Wegener On Ecology

Continued from Page Three
learn not to tear it.

Coined by the Poet
The highest meaning, to my mind, of ecology is that coined by poet Gary Snyder—Earth House Hold. He sees ecology not as a dim conception of “Nature,” out there, or the study of the complexity of the web, though that is very needed to help us regain the kind of understanding of give and take that the Indians had; rather, he would like us to become ecological in point of view, to remember that we are natural beings in a natural world, knots in a web with strands leading to and from us. We eat food grown in the same way as the grass that feed the deer, we die of poisons like DDT and lead from gasolines as surely as the bald eagles and the osprey, and we too must form stabile, naturally regulated communities adapted to the resourcesand physical factors around us.
Recent work has shown that studies of human society can be fruitfully considered from an ecological point of view. The stability of an eco-system (a particular community sharing the same physical and biological environment) is related to the diversity it shows. The more strands there in the web, the longer the chains of energy flow and the more efficiently essential

nutrients are cycled without loss, the better the chances of this eco-system surviving changes in the physical or biological environment. This offers some explanation as to why this country, with its great diversity of culture, financial status, even languages and experiences that the people have, has survived so many changes in technology, climate of opinion, and status in the world. Any drop in diversity could seriously impair this society’s adaptability to change— an ecological hint in the direction of “The freedom to be different is the country’s strength.”

Looking Ahead
In future columns I hope to take several of the fundamental concepts in ecology and examine them, using modern problems of common experiences as examples. The field of ecology has much to offer us, aside from providing us with ways of understanding some of the environmental crises around us. I will be glad to reference any of my points, and will answer as many questions as I can. I welcome profusely any and all aid in writing this column—news or articles on environmental problems, ideas or corrections (exp. from the profession), or announcements of environmental happenings or action being taken. Please write to:
Paul T. Wegener

FOURTH?

No Defense Against Perfection

by Robert Geller
S 4 2
H A Q 5
D A K 10 8 7 4
C K 5
West
S A Q J 9 6 5
H J 8 2
D Q
D Q
C 7 6 4
East
S 10 3
H 7 6 3
D J 9
D J 9 2
C Q J 9 8 3
South
South
H
S K 8 7
H K 10 9 4
D 6 5 3
C A 10 2
The Bidding
North—South Vulnerable
West North East South
2 S 3 D Pass 3 NT
Pass Pass Pass
Opening lead: Two of Hearts.

In bridge, as in life, it is nice to know who your friends are. Once you know who is on your side you can reciprocate by losing tricks to your friend, rather than conceding a trick to your enemy, who might make an embarrassing lead. The defenders can foil many attempts at ducking a trick to the safe hand if they are alert to the possibility that declarer may attempt such a gambit. Frequently, though, as in today’s

hand, there is no defense against the correct line of play.
After the opening lead of the two of hearts, declarer can count only eight tricks—four hearts, two clubs, and two diamonds. The correct play to take the maximum number of tricks in the diamond suit is to cash the ace and king of diamonds, hoping for an even split. Anyone greedy enough to play the diamonds that way deserves to go down. Declarer needs only three diamond tricks to make his contract and he can insure the contract by ducking when West plays the queen of diamonds on the first diamond trick. This play will lose one trick whenever West has both diamond honors, a price South should be

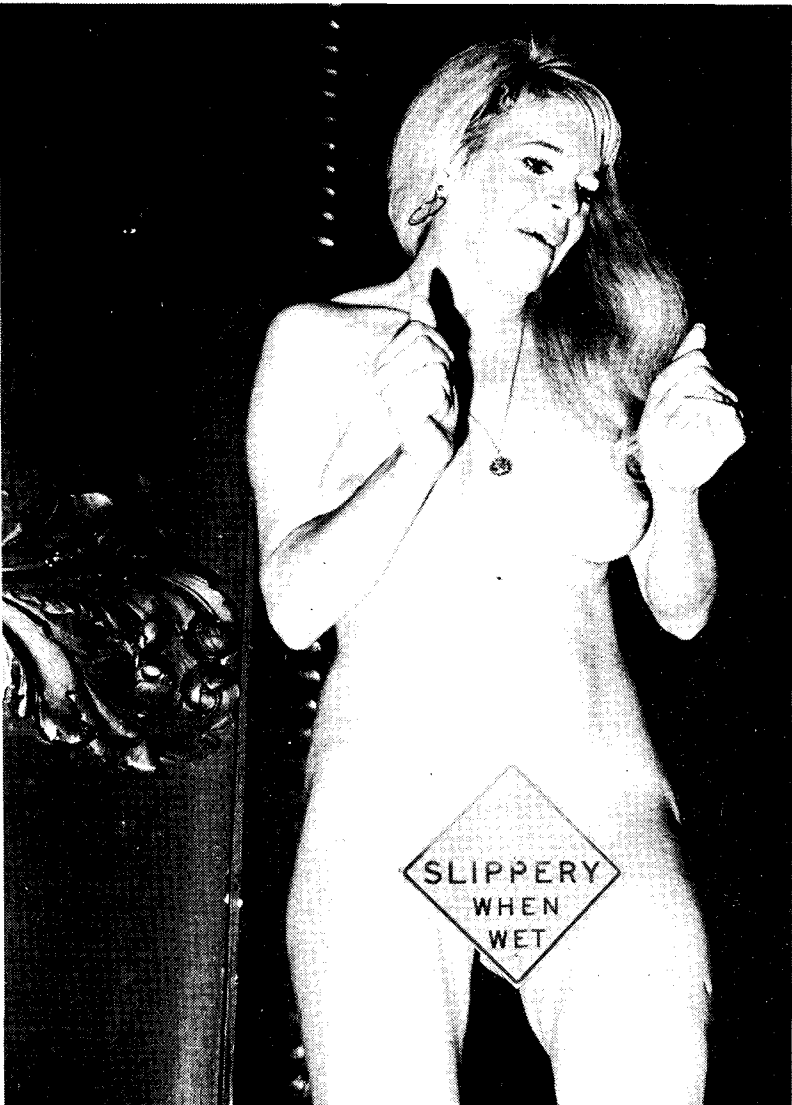
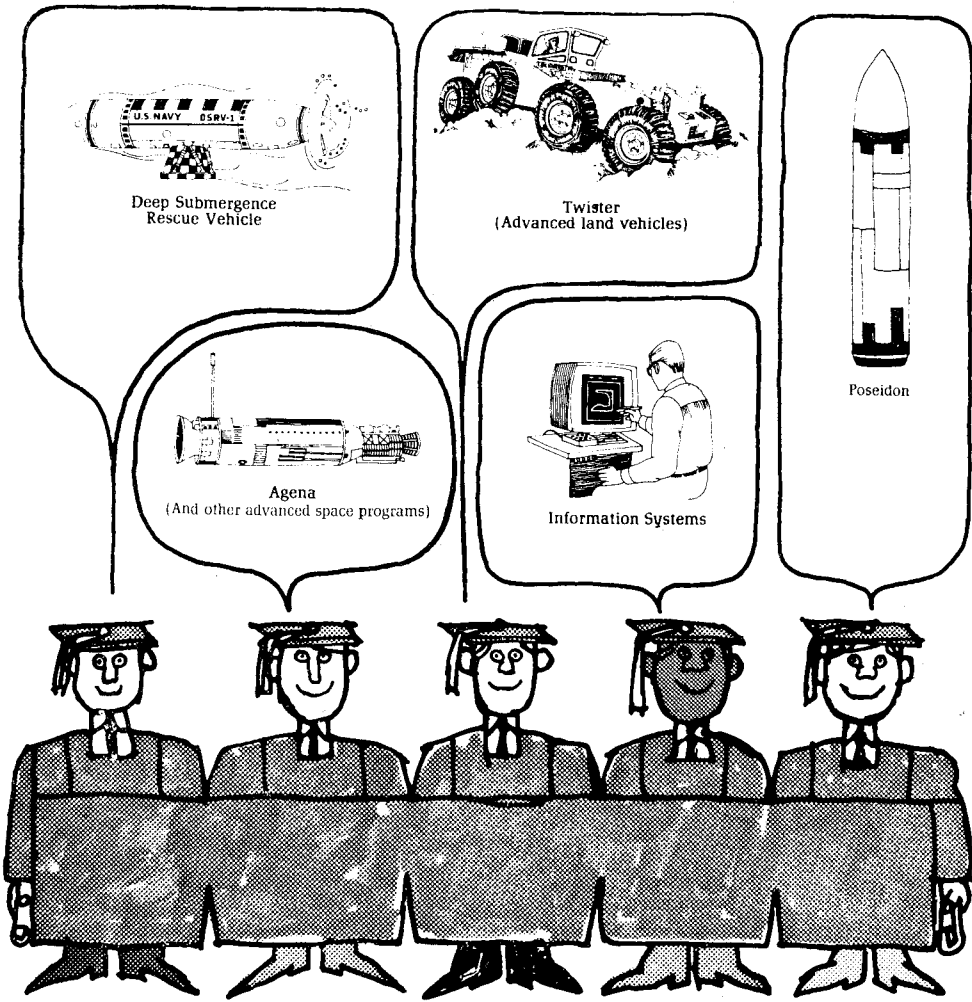
grateful to pay to keep his friend West on lead, protecting his king of spades as a sure stopper.
Let’s End the Suspense
Due to technical glitches the bidding was omitted from last week’s column. It was:

Neither Vulnerable			
South	West	North	East
1C	Pass	1D	Pass
1NT	Pass	2C	Pass
2S	Pass	+	
2S	Pass	3S	Pass
4S	Dbl	Pass	Pass
Pass			

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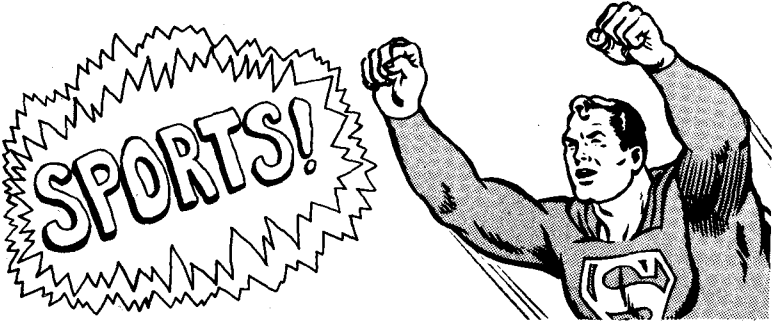
TERRI — Gulp! Can we say anything! —photography by Vyts

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UNDERWRITERS AND INVESTMENT BANKERS



New Ass't Coach
Spikers Shape Up

by Richard L. Short
The 1970 varsity track team has been getting in shape for the coming season, which begins February 13.

Coach Bert LaBrucherie's team includes 12 veterans and 15 first year men.

Tim Tardiff, Bill Butterworth, Dick Harley, Martin Smith, and Ratchford Higgins are lettermen in the running events. Tardiff, a 2 year veteran and probably the team's best in the 880 and mile, will be joined by promising freshman Gary Pope to make these events the team's strongest ones. One or both of these distance men should break the school's mile record of 4:22.0 soon.

Giddyap!
Junior Martin Smith and sophomore Ratchford Higgins give Tech strength in the two mile run.

Butterworth and Harley, both seniors, are the Beavers' leading sprinters, with times in the 100 yard dash of 10.1 and 10.2, respectively.

Junior Bob Hall, when he gets through with the swimming season, will bolster the team in the 120 yard high hurdles and the 440 year intermediates, as well as in the high jump. Hall's best times in the hurdles are 16.7 and 60.3, which he should improve greatly this year, while he has cleared 5-8 in the high jump.

Kangaroos all
One of the most promising new track men is frosh Charles Almquist, who may compete in the 220, 440, 120 HH, or the 44 IH. Almquist has a time of 50.0 seconds in the 440, and 16.1 in the high hurdles.

Other frosh cindermen include Russ McDuff, Bill Kennedy, and Dale Evans.

In the field events sophomore

POST

Continued from Page Seven
it?" asked the first. "Yeah." confirmed the second. In the swimpool it had just been discovered that, under the potent influence of "spacedust" and "speedier", one could detect very rapid changes in temperature. Having reprogrammed the environment, the kids were flicker-freaking on thermal polysync with parapoetic overlay. Upjazzed indeed!

Midnight, December 31, 2000 a.d. The info-irradiated air was bombarded with a redoubled intensity and complexity of sound, light, and smell as the party peaked. All the members of the phased-out generation of oldies thought the same thought. "It's the kids mil- lenium now. It's the end of ours and the start of theirs. We don't dig them too much, but we hope they don't blow things as bad as we did." And the old ones, the parents and grandparents and ancestors lit their marijuana cigars and shuffled off in their mod clothes to the dimly remembered and melancholy sound of rock music and lived out the rest of their dull, dim, drab, downjazzed lives in a millenium they could neither make nor unmake. For them it was all over. For the rest, it was just beginning.

Gary Stormo is the best, and at present the only, long jumper and triple jumper. His marks are 21-5 and 42-0 and should improve considerably this year. Tom Blaschko, Mike Ruth, and Agis Abatzoglou are veteran shot putters, all of whom have marks well over 40 feet.

Discusobalus
Abatzoglou also throws the discus over 130 feet. Steve Bienz is a good freshman prospect in discus, having thrown 125 in high school. Senior Bob Jackson and sophomore Charles Thoele are returning javelin tossers who will be joined this year by junior Brian Cox. Thoele, who took fifth in the all-conference meet last year, has a best mark of 162-7½. Jackson and Cox have best marks of 169-5 and 159-10, respectively.

Dave Holmes, who has cleared 12 feet, is the only Tech pole vaulter at present.

Hop, Skip, & Blark!
Mr. LaBrucherie stated that the team is relatively strong in the 880, mile, 2 mile, shot put, discus, javelin, and 220. The team desperately needs more men in the long and triple jump, pole vault, and high jump. The team's major problem is lack of depth in many events. Any Techer with ability should seriously consider competing in the sport of track and field.
One further note about the squad is the addition this year of a new assistant coach, Mr. Bill Smith. Smith is a 1964 graduate of Ohio State University. He was a decathlon man who placed third in the nation in 1967. Smith also was the Big Ten champion in the 330 yard intermediate hurdles in 1964.

**Page Nips Ricketts
For IH Tennis Title**

The Page House Interhouse tennis team compiled a total of 41 points to edge Ricketts, who finished with 40, to win the IH tennis competition.

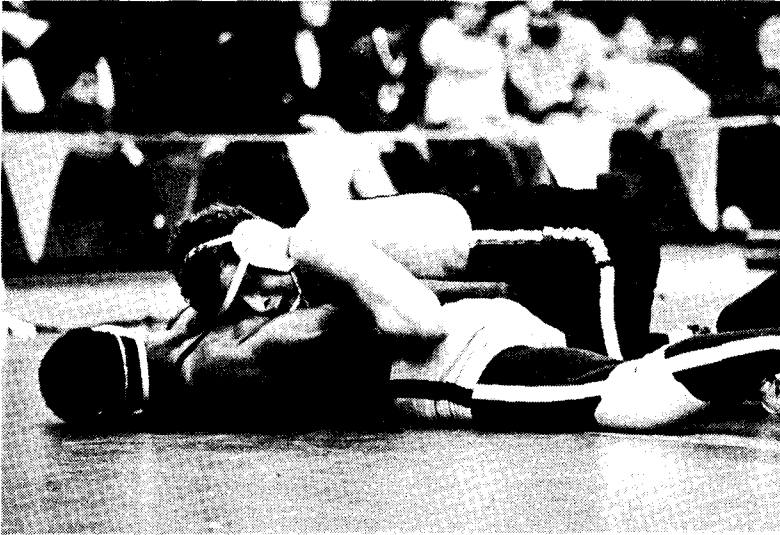
Fleming came in third with 38 points, while Ruddock and Lloyd tied for fourth with 36 points each. Thus, there were five teams within five points of each other. Only Dabney and Blacker failed to make a good showing, with 19 and 14 points, respectively.

The Page doubles team finished first in the doubles competition with 33 games won in six eight-game matches. The victors were Steve Patt and Tom Studebaker.

Bruce Eisenhart of Lloyd won the first singles title with 34 games won. Doug Fay of Page and Larry Niren of Ricketts tied for second with 29 wins each.

In the second singles event, Art Ellis of Ruddock topped the field with 34 wins, just ahead of Page boy Steve Battelle with 32.

Terry Boardman of Lloyd won the third singles competition with 34 wins. Don Franks of Ricketts was second and Leo Lomeli of Fleming was third with 33 and 32 points, respectively.



Caltech's wrestlers prove to be a bunch of independnt operators. See our mat-chless team, in their inimitable style, trying to get a head(lock) of the opposition. Pic by Fish

**Tennis Team
Will Meet Sailors**

The Caltech Tennis team opens its 1970 season this afternoon here against the Long Beach Terminal Navy team. Ken Pischel will be playing first singles for the Beavers and will join Andy Chow on the first doubles team.

Chow plays second singles, while George Lantos is third, Don Smith fourth, Jim Crawford fifth, and Bruce Eisenhart is sixth boy. Art Ellis is the alternate for singles.

Smith and Crawford form the second doubles team while Lantos and Eisenhart will play the sailors' third doubles pair. Larry Niren is the doubles alternate.

The match begins at 3:00.

CAGERS BAT .333

The Caltech varsity basketball squad won one game and lost two last week, while the junior varsity team couldn't manage a victory in three contests.

Occidental humbled the Beavers 95 to 57 last Wednesday here at Tech, while the Oxy Frosh walloped Tech's JV's 108 to 46.

Caltech's varsity beat Pacific Christian College at Lakewood High School by a score of 82 to 71 Friday night. But here at Caltech on the same evening the junior varsity had less luck against the Los Angeles Police Revolver and Athletic Club, Inc. The final score was L.A.P.D. 82—CIT 48.

Here against La Verne Saturday night our varsity lost 80 to 70 after the JV's had bowed 86-66.

Redlands will be here tomorrow night for a varsity game that begins at 8:30 p.m.

SWIMMERS WORKING

The University of California at Riverside swim team defeated Caltech 64 to 48 Friday at Tech's pool.

An important factor that hurt Caltech's team was the injury to Jim Jakway, who tore some cartilage in his ankle and couldn't swim.

Caltech's 400 yard medley relay team of Mabry Tyson, Max Ray, Bob Hall, and Jeff Rude were awarded first place with a time of 4:14.5 when the Riverside quartet was disqualified.

Tom Coates placed first in the 50 yard free style in a time of 24.5 seconds. Steve Johnson and Ed Fronczak finished first and second for Tech in the 1 meter dive competition, with 181.25 and 131.75 points, respectively. Johnson also won the 3 meter dive event with 141.75 points. Beaver Gary Reeder placed second with 115.55 points.

Tomorrow, Friday, the Caltech tankers visit Occidental for varsity competition, beginning at 4:00 p.m.

MILLER CONTINUES

Continued from Page Five
dissolved into an amorphous, jellylike material which expanded and absorbed water to more than a million times the original volume of the Squelch. On a short exposure to vibration (Howard knocked a beaker of it off the table) the jelly-like material became rock hard. Squelch is a menace.”

From the front page of the L.A. Times, Aug.5,1970:

HANOI-(Reuters)—Vinh Vong Binh, the Premier of North Viet Nam charged today that the Ishibatsu Maru was deliberately blown up in Haiphong harbor Monday night in the full knowledge that the 150,000 tons of the American detergent Squelch which it contained would cause a reaction in the water which would destroy the harbor. In an uncharacteristically brief speech this afternoon the Premier informed his Cabinet that at about ten that morning a large area of water around the wreckage off the Japanese-built Greek owned ore freighter became gluey. Boats went to investigate, were quickly mired, but the crews escaped when the surface bacame firm enough to walk to shore. Vinh charged that United Friends of Hanoi, a British and Swedish group, was actually a front for a combine of reactionary blood-sucking bloated capitalist imperialist American warmonger pig millionaires called the Stephen Decatur Society.
The area of hardening is still expanding.

ABC News Special Report: Jules Bergman, ABC Science Editor with DR. Roger Melton, Caltech Assistant Professor of Chemical Biology. Evening Aug. 6 Bergman: Dr. Melton, according to the latest reports, more and more of the harbor and bay are hardening. How can this go on? Melton: Well, you must understand that there is very little Squelch in the hardened material. The Squelch enzymes stay in solution, dissolving, or digesting, all available organic material, and incorporating it into the matrix which stabilizes the water. B. What is the matrix? M. I suppose the best way to describe it is a combination of proteins and various natural and synthetic nitrogenless materials with properties somewhere between mucus and Jell-o. B. But why does it harden? M. I really can't say. Except. . . A year or so ago it became evident that the water in living cells is in an icelike form at body temperature. This may be something similar on a microscopic scale. B. I wish it wasn't so macroscopic. Won't the

expansion stop if it runs out of protein or something? M. Yes, but you see, Squelch was formulated to digest nearly everything. Anyorganic material at all, from live fish to oil slicks will be digested and allowed to spread through the mass. It would dissolve a man if he were in the water. B. Any organic matter at all . . . Have you ever seen Haiphong Harbor?M. No. If you're worried, I can tell you that eventually the enzymes will become too dilute to be effective. (Slight look of relief on Bergman's face)

Let's skip rather rapidly over the answers given to questions like 'what did North Vietnam want with 150,000 tons of Squelch?' and 'What was the Russian captain trying to do when his submarine was caught in the goo?' and pay little attention to the way the Stephen Decatur Society announced on the 8th of August that "The people must do for themselves what the government is too chicken to do," and announced on the 9th of August that it could not even afford Colgate-palmolive's \$70 million bill for the Squelch, let alone the \$2.3 billion suit from International Hellas Transport, former owners of the Ishibatsu Maru.

NBC evening news, August 11,1970, Chet Huntley reporting:

"The area of sea matrix reaching out from the coast of North Vietnam has finally stopped expanding. Scientists say that it will now deteriorate slowly over a period of several months. Arrangements were made today in the State Department to extend foreign aid to North Vietnam, until the harbor is free of matrix again.

"In the South the vietnamization of the war goes on. The most concentrated rocket attack on Saigon in three months ended abruptly when an ARVN company surprised the North Vietnam Army's 324th Battalion in the southeast sector of . . ."

David Brinkley reporting:

"Colgate-Palmolive, the Isreali embassy in Washington, and the governments of Syria, Jordan, and Saudi Arabia all denied strenuously today that the company had received offers from any government. . ."

Anyhow, it kept the summer from being a complete drag.

by Craig Sarazin

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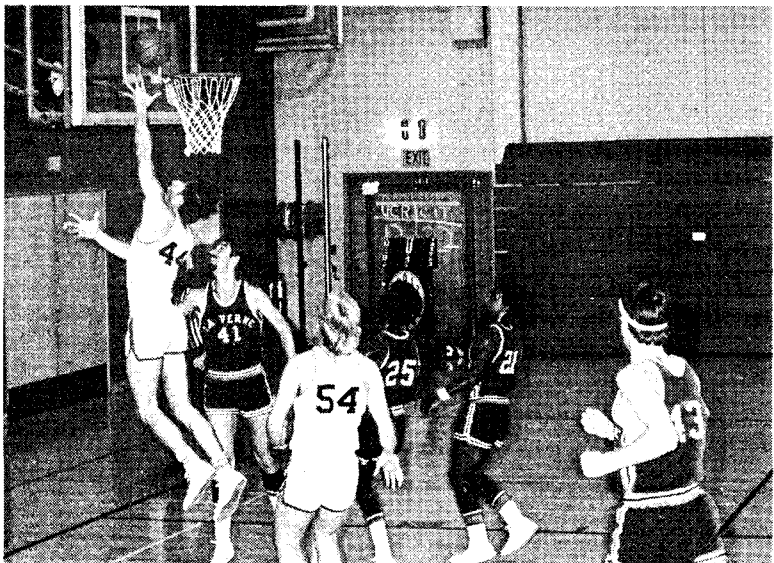
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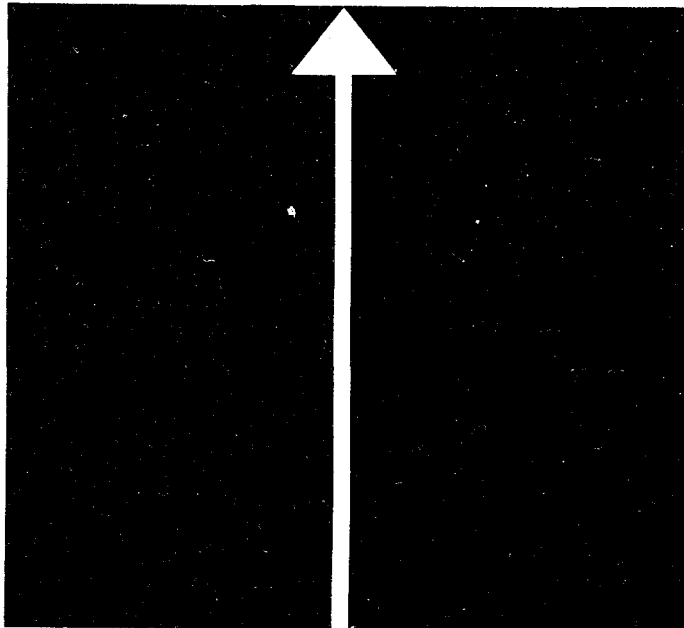
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—photo by Fisher.

CALTECH HOOPSTER makes hook shot in 80-70 loss to La Verne Saturday.

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Guibas Poses Questions On Honor System

I am not going to answer this question: nor do I know the answer. No matter what the answer will be, however, there are certain requirements that I think will have to be met. The most certain requirements that I think will have to be met. The most important one is that the BOC stay as the sole agent responsible for protecting the Honor system among the undergraduates; A complex multistructure of disciplinary bodies is clearly undesirable and would contribute to the deterioration of the Honor System to a set of legalistic formalities.

No other body but the full BOC ought to have the authority of convicting someone of an Honor System violation. Any other body or group should function independently of the BOC and specifically take care of the regulations it is supposed to look after. It could have the authority of reprimanding someone of "irresponsible behavior" or "improper action" and of possibly demanding reparations. Independence from the Board would also mean that the BOC could intervene and act as it presently does in case any party, or the BOC itself, felt that a question of honesty or fairness concerning the Honor System was involved.

To Raise Questions

Although my purpose has been to raise questions and not provide answers, at this point I think the problems themselves will be illuminated if some of the available partial solutions are mentioned. One rather attractive suggestion has been that of essentially letting the Chairman of the Board handle the cases with the help of the Secretary, according to the above requirements. Since the case for this idea was made last week, I will confine myself here to two obvious objections: is this not giving the Chairman too much authority, and moreover is it not further burdening the already laden office of ASCIT-Vice President? Maybe some more Board members ought to be involved.

At other times it seems to me

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that a uniform solution may be impossible and we had better look for piecemeal answers, for specific solutions to specific problems. For example the UCC Committees, as the house disciplinary body, could handle rule infractions within the houses as well as some of the "Food Service violations", such as borrowing utensils, concerning house members. Less desirable is the suggestion for a system of fines for unpaid meals in the houses and other similar actions.

The above few suggestions are mainly intended as examples and are by no means exhaustive. Problems always arise in trying to obtain a workable system, consistent with the Honor Spirit, that does not unduly restrict the freedom of Caltech students. It often seems that the best way out is to simply try to convince people of the utility of these rules so that they will naturally give consideration to them.

Now You Know

I am afraid that now I have convinced my reader of the complexity of the problems rather than clarifying the issues for him. Be that as it may, I would be happy if the above provoke some serious consideration of the questions involved. Let me again emphasize that no solution will be acceptable unless it is both fair to all concerned and consistent with the feelings of the majority of the students. This is why the Board needs to hear what you have to say. Let me end by promising that any definite proposals that have taken or will take shape will be well publicized before

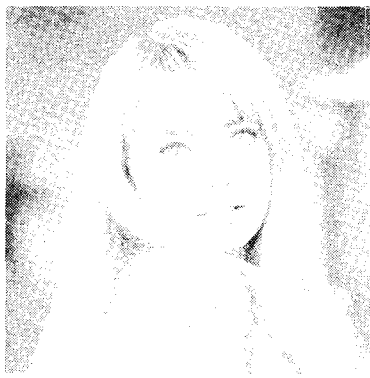
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they are officially acted on. Finally I want to thank my fellow Board members in discussions with whom many of the above ideas either originated or were given more concrete form.

Moths. . .

Continued from Page Six

human a theme. Frankheimer is unwilling to devote the time to make a sympathetic character which is soon to become a pancake. Since killing off the hero is ineffective, he tries to create a new hero. For some inexplicable reason he saves Wilson—to no purpose.

Frankheimer is guilty of laziness. He assumes that the skydiving scenes are going to carry the movie. There is no overriding sense of purpose, no unified direction. A good movie is an enthralling experience; one is so involved that one is unwilling or unable to analyze why it is good. Only upon viewing a bad movie does one realize that each event must have a precise and proper place. Nothing in *The Gypsy Moths* adds to the movie. The only person involved in that movie I have any respect for is that idiot stuntman who opened his chute fifty feet above the ground.

—David N. Dobrin

B. Cassidy & Co.

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today's existential hero.

The acting is truly remarkable. Paul Newman has long been recognized as one of today's finer actors; he outdoes himself. The movie also marks the emergence of Robert Radford as a major actor. Katharine Ross is, well, Katharine Ross (drool).

Butch Cassidy and the Sundance Kid is a very self-made movie. A discussion of the philosophy of the movie may only be justified by a lack of technical error. Not that it matters but most of it is true.

—David N. Dobrin

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