

C.E.A.C. Announces Activities for Earth Week

by Paul Wegener

The Caltech Environmental Action Council is presenting a Teach-In on the Environment during the week of April 20-24. There will be over 40 speakers, 50 exhibits, 15 artisans, several bands, 5 politicians, many, many people. In effect we are creating a special university to educate as much of Caltech and Pasadena as possible to the problems we face and how we can solve them. Events are scheduled below, with other happenings arising as time and resources allow. Speakers will give talks in the Winnett

Student Center area, with exhibitors spreading down the Olive Walk and bands or special events happening on the Athenaeum lawn. Exhibitors will consist primarily of local groups concerned with conservation or community problems, with the nitty-gritty of solving them. We encourage everyone to talk with the representatives of these groups, who are dealing with the actual problems in their true complexity.

Equally important to our Teach-In activities will be the Ecology Faire. The Faire will feature local artisans and craftsmen, bands, art

exhibits, banners and balloons. Here imagination and feelings, emotion behind intellect will be emphasized. We are concerned with *people*, people living and breathing; the Faire will bring to our Teach-In university such life and breath. Artisans have crafted in clay, copper, wood the feeling powers of hands and eyes; painters bring to these canvases the sight of color and the texture of wilderness—look, feel, touch, consider these things, let music run through your soul, it does the heart good to flow in impulses, the existence as a node in

an eco-system.

On Friday we are celebrating Earthday. At noon there will be a huge Feed-In of carefully prepared organically grown foods (no pesticides, no hyped fertilizers), free as the soil and the plant meant it to be. This day will find us, young and old, men and women, together to dance and sing, to celebrate the gift we all share, the gift of life, living, free to be, being. This day we will step towards the morrow, face it willingly and gladly, humble before the promise it holds.

The Council invites all Caltech to

attend this week of learning, of searching, and of loving. The Faculty Board has excused students and faculty from classes on Tuesday, so be there that day for sure. If you wish to spend the week at our university, please do, and bring your friends, relations, women, children, and dogs. If you wish to help in some way, please contact the CEAC office, corner of Michigan and San Pasqual, or ext. 2481. We cannot build until we understand the foundations and materials—we cannot strive without a will and a dream.

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Pasadena, California, Thursday, April 16, 1970

Number 24

PE Requirement's Life Expectancy Decreases

by 'Berto Kaufman

Monday, April 13—The Academic Policies Committee today came to a consensus that physical education should not be required at Caltech.

No formal resolution was made, as debate had extended the meeting until some committee members had left. Of those who remained, nine felt that P.E. should not be required, one felt that it should. Some formal action in the near future is likely.

The effect of such action would depend on the Faculty Board, to which the Committee reports. The Board could act upon a report or suspend action until the Committee on Athletics and Physical Education reports on its study of the physical education program. That committee is not expected to report this year.

The Athletics and Physical Education Committee study involves the entire physical education program, from a search for objectives to a procedure for testing and grading. According to Dr. Bradford Sturtevant, chairman of that committee, any evaluation of the P.E. requirement would have to be made at the completion of such a study. There is no official estimate of the time this would require; private estimates are not bounded above.

Rumor has it that one of the Dabney House R.A.'s is pregnant. The House Mother was overjoyed at the news.



JON MEADOR demonstrates the use of a forklift (?) to anxious Dabney and Fleming House supervisors. —photo by Fish

Lunar Rocks, Dust Now on Display in Culbertson

A moon rock exhibit will open to the public Tuesday (April 14). It will include samples of lunar rocks and dust, demonstrations on how they are studied in Caltech laboratories, and descriptions of what they have revealed.

The exhibition, in Culbertson Hall, will be open without charge Mondays through Fridays from 1:30 to 4:30 p.m., and Saturdays and Sundays from noon to 4:30 p.m.

The exhibition, the most elaborate yet attempted for lunar material, is designed not only to provide a look at actual pieces of the moon, but also to show visitors how

information is extracted from the rocks in immaculately clean laboratories, together with the new picture of the moon that is emerging from the data.

The exhibit is arranged so that people can look at the most interesting parts of the lunar samples, which can be seen only under microscopes.

Visitors will be introduced to the exhibit by an overall look at the lunar landing site of Apollo 11. First they will see an enlarged photo of the full moon. Other photos will bring the viewers nearer to the lunar surface, the final picture being that of astronaut Niel Armstrong picking up a rock.

Close-up photos of the first rocks collected will be shown, followed by the viewing of an actual slice, one-thousandth of an inch thick, of one of those rocks. As seen through a petrographic microscope, the different minerals can be recognized by their brilliant colors.

Photographs of other lunar rock samples will be seen in three dimensions through stereoscopes, and there will be a large collection of electron photomicrographs of microcraters formed on rocks by high speed impacts of cosmic dust particles.

Next, viewers will see a pictorial representation of the mass spectrometer work by which moon samples are analyzed for isotopic composition. A vial of solar hydrogen extracted from the moon will also be on display.

Asphalt Makes Way for Grass, "People's Park"

by Elliot Tarabour

The removal of the synchrotron trailers left a sentimental tear in everyone's eye. The men of Fleming and Dabney, however, saddened by their loss, got to work this past Sunday converting the parking lot into a park.

There had been some controversy over what the area was to be used for. The motorcycle owners wanted a parking lot, Dabney wanted grass (of one form or another) planted,

some people clamored for a volleyball court, but the final consensus was that the area was to become Athenaeum Lawn West.

The work was to be done by B&G, but some of the members of both houses, realizing that they would probably not live to see the work completed, decided to take it upon themselves to remove the asphalt. Actually the rumor that B&G was going to do the work with an electric sander was the thing that sprung the men into action.

Removing the asphalt was a slow and tedious procedure. Progress was slow but steady. Then Steve Robsky and John Meador of Dabney left, mumbling something about a fork lift. Most people thought they were just tired and were taking a break. Someone suggested the heat had gotten to them. In any case nobody paid much attention until this rumbling sound was heard on the orange walk. To everyone's amazement they actually had acquired a fork lift. John was driving the vehicle and looked quite at home as everyone dropped their implements and applauded. The machine was old and not much more efficient than the work crew but it did provide a psychological lift that rallied the workers together.

The work was also eased by a key of beer which quenched many a thirst. Some of the more outstanding workers were "Mad man Andy Chow" on hammer, Bob Shelby on the lifting crew, John Meador and Steve Robsky on the fork lift, and Dave Dobrin on beer.

The combination of man and machine finally overcame the opposition and the workers retired, blistered and sore but with a feeling of accomplishment.

Geary Fired from Co-Editorship of Big T Activities Sec.

Chip Smith, editor-in-chief of the 1969-70 *Big T*, announced last week that Mike Geary, co-editor of the activities section of the yearbook, had been fired. The major reason for this strict action was Geary's capriciousness in deciding whether or not he would fulfill his obligation of meeting an upcoming deadline. This firing is noteworthy in that Geary was at no time being paid for his work. His initial reaction upon being informed of the decision was one of great disbelief. After a week, Geary's second statement to the press was, "I feel better already." Brett Tucker, former co-editor and now editor of the activities section, told the press, "Personally, I think it was a C.S. decision."

News Briefs

Blood Donor to Win Weekend Car

When any undergraduate donates a pint of blood in the annual Red Cross Blood Drive, he will receive a lottery number. If his number is chosen, he will win the use of a Hertz car for a weekend, with 200 miles free, courtesy of Hertz-Pasadena. Chances at both gambling and philanthropy will be provided between 11:00 a.m. and 3:30 p.m. this Friday, April 17.

I.D. Cards Ready Soon; Have Patience!

I.D. Cards for those photographed at third term registration will be completed April 20. Cards for undergraduates living on campus

will be delivered to the House presidents, according to R. L. Mooney, Head of Purchasing. Undergraduates living off campus and graduate students should call for their cards in the Bookstore.

History of Air Pollution Exhibit at Millikan

In observance of the Environmental Teach-In and Ecology Faire Celebration, Millikan Library will display a special exhibit loaned from the Los Angeles County Medical Library on the history of air pollution. The exhibit includes rare original treatises of the six-

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Editorial

The Time Has Come, The Walrus Said

The Los Angeles City teachers went on strike four days ago. What drove a group as typically conservative and cautious as school teachers to resort to a strike? And what can be done?

The teachers' strike reflects the simple fact that education is slowly disappearing in the Los Angeles City School District. Teachers do not have the facilities and support they need to do the most important job in the nation: education.

Facilities must be judged substandard, even in some of the "richest" schools in the district. Temporary bungalows remain standing, and even have concrete steps leading up to them, notwithstanding that they were built over 25 years ago. Overcrowded, poorly-ventilated classrooms thwart the efforts of even the best and most dedicated teacher. And poor as many of the textbooks must be judged to be, enough texts for each pupil can hardly be found.

Worse still, support for teachers has declined drastically. Special services have been sacrificed by a reluctant Board of Education to simply meet the budget. Health services suffer additional cuts with each passing year. No money can be found for aides for beleaguered teachers.

One might be tempted to blame the school board for the mess and leave it at that. In reality, the school board has been the helpless spectator to the decline of their charge. They face a budget constantly being squeezed by increased costs due to inflation, and inability to raise more money due to parsimony in Sacramento and unwillingness of the local voters to increase the property tax rate.

The next solution seems to be to impute all blame on the voters of the district. This hardly seems fair, since with the general cry for property tax reform, one can hardly expect people to increase a tax they by and large consider unfair. Yet, the school board has no other source of revenue except for the state.

What of the state? In theory, 50% of the cost of running the schools should be borne by the state, the other 50% by the local school district. These are not arbitrary numbers: they reflect the way school financing had been conducted for many years in California. Presently, however, the state pays only 28% of the cost of running the Los Angeles schools. The local board has thus raised its tax on property to the limit, and has failed to win even a temporary rate increase from the voters.

Many complain of the property tax. Some complain simply because they will complain about any tax. Others have a more valid complaint in the wide distribution of tax rates between districts. For example, a district with much industry and few school children can have an extremely low tax rate, whereas a district with many children and few industries will have an exorbitant tax rate. Obviously, the latter district needs money for schools far more than the former, but has more trouble obtaining it.

Such is the position of the Los Angeles City Schools.

Besides inflation, increasing demands on the schools to do more and educate better add to the bleak financial situation. Californians express a great deal of dissatisfaction about their schools, and rightly so. Reading scores have been called a "national disgrace," (although the national disgrace could be called an obsession with not necessarily valid reading tests). What occurs in many inter-city schools barely merits the title of education.

Programs have been devised to (among other things) increase reading ability in the district, provide the type of education best suited to each school, and help the individual teacher spend more time with the pupil. Unfortunately, all of these good ideas cost money. All involved would like to reduce class size. This can be done easily by hiring more teachers—which only costs money. All involved want to attract only the best teachers to the district—which means little else but paying teachers more.

The problem with the schools can be summed up into one punctuation mark: \$. The city school board has no more of that precious commodity, and little prospects of obtaining any more strictly by its own efforts.

On the other hand, the State Legislature and the Governor, in their infinite sagacity, have decided that it might be a good idea to allocate \$600,000,000 for property tax rebates, but not pass significant property tax reform. How fortunate that every property owner will get his check in the mail just in time for the state elections.

The problem can be stated as follows: the schools need more money to do all they must do, the money must come from the state, and the state seems unwilling to take action. More funding for schools and property tax reform cannot be separated, since one depends on the other. Why then, if both have been agitated for assiduously for over five years, has nothing been done?

The current Governor has promised property tax reform since well before his election. So far, all the voters have seen is a rather meaningless rebate (something on the order of robbing Peter to pay Peter), prodigious amounts of talk, and equally prodigious lack of action.

Now the teachers have taken the initiative. Sadly, one of the more conservative and most stable elements of society has been goaded into militance. Hopefully, appropriate remedial action from Sacramento will be forthcoming.

—Philip M. Neches
Ira D. Moskatel
Paul A. Levin

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Was Hoffman Fair?

Chicago 7 Trial Challenged

by Oren Maxwell
and Jan Lipson

At the April first meeting of the Board of Directors, a petition was presented by the authors of this article concerning the recent conspiracy trial in Chicago. Having been accepted by the Board, the petition will provide for an ASCIT referendum on April 13 on whether or not the following statement will be forwarded by the ASCIT BOD to appropriate destinations:

We, the majority of the students of the California Institute of Technology, condemn the manner of judicial conduct and the harsh results of the recent Chicago trial of seven defendants of charges of violating the 1968 federal anti-riot law as a parody of the fundamental principles of justice upon which the American jurisprudence system is based. In view of the injustices perpetrated in this political trial and of Justice Hoffman's inability to separate his political biases from his judicial rulings, it is further our conviction that this trial should be declared the mistrial that it was.

Preceding this vote a few comments concerning the conspiracy trial are in order. In this trial eight defendants were prosecuted on charges of violating the 1968 federal anti-riot law. The law provides for prosecution in cases involving the crossing of state lines for the purpose of inciting riot or participating in a riot. As defined in the law, a "riot" is "a public disturbance involving . . . an act . . . of violence by one or more persons part of an assemblage of three or more persons which . . . shall constitute a clear and present danger of, or shall result in damage

or injury to the property of any other person . . . (or) a threat or threats of the commission of an act." Violation carries a maximum penalty of 5 years imprisonment, a \$10,000 fine, or both.

Originally, this law was opposed by both Johnson and his attorney general, Ramsey Clark, but was finally enacted to insure the passage of the 1968 Civil Rights Act. However, even after its enactment, Attorney General Clark refused to employ it in prosecution. In his own words, "If the new administration prosecutes the demonstrators, it will be a clear sign of a hard line 'crackdown' on dissent." In addition, there is considerable doubt in legal circles as to the constitutionality of the law.

Unfortunately, however, the new administration decided to employ the law beginning in March of last year. At that time, Attorney General Mitchell authorized U. S. Attorney Thomas A. Foran to prosecute eight defendants on charges of crossing state lines for the purpose of inciting riot. The eight defendants indicted were Rennie Davis, Dave Dellinger, Tom Hayden, Abbie Hoffman, Jerry Rubin, Lee Weiner, John Froines, and Bobby Seale. The last was in Chicago only one hour during the anti-war demonstrations. At the same time eight policemen were also indicted on charges of brutality and other actions connected with police violence during the demonstrations. However, as was to be expected, all eight were promptly acquitted. The grand jury in the conspiracy trial was called by Chief Judge William Campbell, a strong Daley supporter. Prosecution began in September of last year with Judge Julius Hoffman presiding, despite Seale's request for

a six week postponement in order that he could be represented by his lawyer Charles Gary, who was undergoing a gall bladder operation at the time. It should be noted that Hoffman in another trial granted the prosecuting attorney a six week postponement for a Caribbean vacation.

The case for the prosecution hinged upon the testimony of four undercover agents who claimed to observe at various times the various defendants engaged in riot-inciting behavior. It is significant that the agents themselves admitted to inciting riot but were granted immunity from prosecution for their zealous support of their country. The case for the defense rested on the contention that the convention violence was police instigated. This is in agreement with the Report to the National Commission on the Causes and Prevention of Violence (the Walker Report) in which it was concluded that the eruption at Chicago was in effect a "police riot." As the trial proceeded, it became more and more apparent to observers that Hoffman was distinctly biased against the defense. While continually praising the prosecution attorneys and their case, he constantly harrassed the defense in the pursuit of their case. In the attempted defense examination of

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A Word of Advice--Don't!

by Etaoin Schroedlu
Memo to the ASCIT BOD:

A while back I made some acerbic comments about the state of Honor Awards here, also noting that last year's awards don't seem to exist. It has since come to my attention that the 1968 awards don't exist yet, and the natives are getting restless. Admittedly, it's not your fault that these back awards haven't ever materialized, but it is your problem now, and maybe you can think of something to do with it. One clever idea might be to order some awards. Don't for get to budget money for them.

Do Mustard Stains Match?

Also, while I'm thinking about it, there's the matter of your current thoughts along the line of moving a Coffeehouse into Winnett Lounge. I have a word of advice: DON'T!!! The Lounge is already serving many purposes, as a little bit of investigation would show. There is no room for a Coffeehouse there, and furthermore there is no place for putting the facilities necessary to prepare food, unless you're planning to put a grill in the fireplace. I'm confident that the current Managers will assure you similarly, and you don't have to listen to an old Coffeehouse Manager, like myself. Further, the point has been made that food stains might not match the current lounge decor.

I'm reasonably certain that you needn't worry much about finding another place for the Coffeehouse; its current location will probably outlast all of us. However, if you

really have nothing better to do, try thinking about: 1) Fleming gameroom, 2) Winnett gameroom, or 3) a newly furnished area in the Infinite Storerooms under the Old Houses. Plans exist somewhere for a Coffeehouse arrangement in Fleming gameroom, done a few years ago and probably obsolete. Of course, it's probably that I know as little of the usage patterns for the game-rooms as you seem to of the lounge, so we come to alternative 3) above. At one time the Architect's Office seemed to be very enthusiastic about creating some real facilities out of the Infinite Store-room, including perhaps some extra Clubrooms and perhaps a new ASCIT Office complex (are you paying attention?). Think about perpetrating a renaissance of such ideas. It's a shame that BODs don't have any seniors with long memories Third Term, when they are needed.

One last comment: You do not own the Winnett Lounge. There is a Winnett Student Center Committee; see your friendly Deans for further details. And further, the grad students are still "Students" last time I looked, and there is a Grad Student Council. Try to control your post-election hubris a little.

Pointing the Finger

I was disappointed to read the article by President Brown on environmental action, in the latest issue of *Engineering and Science*. Stripped of excess verbiage (something I do well to other people's

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IMPOSSIBLE
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Wright & Logan

Page House Tackles Greece

Before You Reach Your 18th Birthday

by David Miller

Blame it on *Mission: Impossible* if you have to put blame somewhere. They could have filmed their show without bringing their writers to "get some ideas from talking to the engineers." But they did and thus it was probably inevitable that one of the writers would get himself invited to a "pub party" at Page House, not realizing that P.U.B. stood for Page United Barbarians. So he came to the party and he drank a beer which was actually some truth serum mixed up by David Flowers, professional bad guy and occasional chemist, and the writer told them everything he had learned from the show's technical advisor from the C.I.A.

Maybe it wasn't wholly *Mission: Impossible's* fault, since the P.M.E. had been held only a week before, and no one feels like studying much third term, and the people who were going to be on campus during the summer wanted something to break the monotony that would face them for three months. How do these things ever get started? It was really nothing more than a standard RF, what the outside world calls a "Caltech prank:" an illogical (but wildly funny) goal which was reached by applying all the imagination, logic, and technical knowledge we could muster for the task. The only really remarkable feature was the size of the project.

The first thing we needed was money. Third term the Page barbarians wrote a big dirty political Hollywood novel. It had prime ministers, perversions, producers, drinking, lust, pill addicts, generals, true love, and characters who were thinly disguised imitations of real people and were given names like Richard Mixup, Raquel Squelch, U

Thought, Gamble Abdel Nasty, and Freakerino Fellini. The essence of the plot was a scheme to overthrow the Greek colonel's government and film the action for an international consortium of decaying studios whose last hope was to join the present movement toward realism in movies by this new dimension in *cinema verite*. 1274 pages after the dark and stormy night which opened the story, the colonels had been gotten rid of, "and they lived happily ever after." "Irving Rand" sold the book to Bernard Geis Associates, Inc. for half a million plus a percentage of hardback sales, and the movie rights went to American International for a million dollars plus a percentage. By the time we sold the book it was evident around campus that something slightly unusual was going on. People from other houses wanted to join us, and were urged to find some money of their own. The book trick was not repeated. It did take about as much work as writing a FORTRAN compiler, and was done in a similar way: we wrote up specifications, and then each of us took a section to write: a few underloaded seniors oversaw the whole thing. No other single group was large enough to attempt something like this, and it was getting late in the term, so other quickbuck tricks were used. For instance, a half-page picture of "figure expert Eileen Feather" was run in the *Los Angeles Times* and several other large papers along with copy which said "Special offer! No obligation to buy! Limited time! Rush out today and send just \$2 and a stamped, self-addressed postcard to Body Beautiful, Pasadena, 91109. Every word of the copy was

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This article is primarily intended for the *male high school students* visiting our campus this week. We have written a series of articles over the past few months on the draft. We hope now to present a little of the most basic information a high school student nearing draft age should know about the Selective Service System.

The laws and regulations that govern Selective Service are complex. Most lawyers don't even know enough to give good advice. Selective Service officials themselves, particularly local board clerks and members, are often ignorant of or misunderstand many regulations and pass their ignorance on the unsuspecting registrants. The Selective Service law is probably the only law of its kind that does not provide for the dispensing of full and accurate information about the law to those affected by it (as is done, for instance, with income tax laws). In fact, the Selective Service law assumes that every eligible person is fully aware of every part of the law and therefore forfeits his rights under the law unless he pursues them at exactly the right time following exactly the right procedures. A person who had such complete knowledge before registering would not find it hard to avoid military service, should he decide to do so. Since the Selective Service System itself refuses to dispense full and accurate information, where will a young man be able to find out his rights? Fortunately, in this area of the country, there are a reasonable number of competent draft counselors available through organizations such as the American Friends Service Committee. There is also a large body of literature available

from such organizations. A few paperbacks are available at bookstores: *A Guide to the Draft* (Tatum & Tuchinsky) and *The Draft and You* (Rothenberg). The law provides for many deferments and exemptions from military service. Many registrants are eligible for more than one, yet receive none because they fail to take the initiative to learn about and claim their rights. Or they may receive a deferment, such as the undergraduate college student deferment (II-S), which incurs certain liabilities rather than receive another deferment to which no liabilities are attached.

Registration

Every male is required to register for the draft within five days of his 18th birthday. The local board having jurisdiction over the area which he gives as his permanent home address becomes his local board. It will make all the decisions, subject to appeal, on whether or not to grant claimed deferments or exemptions. It will *always* be his local board: he can never transfer to another local board. When registering, or soon after, he will be

given a *Classification Questionnaire* to fill out. He has 10 days to fill it out and return it. This Questionnaire is the primary piece of evidence used by his board to decide whether to defer him from service temporarily or permanently. He should therefore take care to fill out as well as he can. In particular, he should give careful thought to his position about conscientious objection before answering the question about conscientious objection in Series VIII of the Questionnaire. Not answering "yer" to this question is interpreted by Selective Service to mean that the registrant is willing to participate in any and all war. Should he later change his mind, he will have to show exactly how this change occurred, a much more difficult task than showing he was always a conscientious objector, even if only an uncertain one at age 18.

Conscientious Objection

The law defines a conscientious objector as anyone who "by reason of religious training and belief is conscientiously opposed to participation in war." The term

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Fisher Describes Proposal For Independent Study

by Bob Fisher
ASCIT President

Despite catalogue copy, a case can be made for a de facto lack of flexibility in the Caltech curriculum. Often Honors Research is superimposed on top of a heavy course load, pass-fail courses compete with graded courses, special treatment usually calls for extensive campaigning and petitioning. It is not especially easy here to vary one's educational program.

And yet, I think it is unrealistic to suppose that all Techers can learn best in the same way. Some Undergrads feed on a lecture-test situation. Others have an easier and

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more productive time working on their own. Truisms? Certainly! But this atmosphere of flexibility is only just beginning to infiltrate the formal structure of the Institute. (Or let us say it is enjoying a revival.) Biology has an Independent Study Program for a limited number, as of last term. Physics, Engineering, and Humanities seem as though they may be moving in that direction.

This week I want to mention a very exciting proposal that would greatly extend the opportunities for individualized work. It arose from an ad hoc Faculty-Student group gathered for the purpose of talking over alternatives to the present Caltech education. The Committee generated a blueprint for an Experimental Program of Independent Study. In outline it would work as follows:

Any Freshman, Sophomore, or Junior may apply through an interview with the program Steering Committee and submission of a proposal detaining the philosophy and particulars of his plan of study for the year. The proposal may include provisions for course work, independent reading and labs, research, seminar attendance, temporary leave to another school or Institution, or other activities. For the first year about 20 students will be admitted.

None of the current Institute requirements would apply to those in the experiment. The participant would instead have a 5 man Faculty-Student Advisory Committee which would take a measure of responsibility for his education. This group would monitor progress and, as its name implies, advise. All work shall be entered into under specific short or long-term agreements, specifying the obligations of both the student (e.g. reading, term papers, oral reports, etc.) and the staff member (e.g. discussion hours, problems to be furnished, examinations to be given, and so on). At the completion of an area of study the student would solicit brief written evaluations of how he met

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Does it hurt to chill beer twice?

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Indian Power!

Buffy Sainte Marie Takes Beckman

by Paul Levin

Question: What was a grand opera fan doing at the Buffy Sainte-Marie concert Saturday night? Answer: Enjoying himself immensely! After all of the protest music that has been written on drugs, war, and civil rights, it is truly a pleasure to hear such music on another subject. Buffy Sainte-Marie enchanted the audience with her music and her wit and at the same time forced them to consider the plight of the American Indian.

According to Buffy (a Cree Indian herself), these people have many grievances for which our government is responsible. Contrary to his present, minority-oriented policies, Uncle Sam is forcing the Indian children to adopt English rather than their native tongue. Through this process the children forget their own culture; it isn't even taught to them in school. Have you ever seen a U.S. history text which begins with the Indians' migration to North America from Siberia rather than beginning with Leif Erickson, Marco Polo, or Christopher Columbus? The government is still trying to steal the Indian's lands from them. Presently Uncle Sam wants the Apache and Navaho reservations and certain pieces of real estate which the Indians had loaned to the government (Alcatraz and several former military bases).

Buffy's presentation was much more effective than that of most protest singers. When she really wanted to sting the audience's conscience, she would sing a long note a third step below the chord she was playing on the guitar or piano. It was just as painful to listen to such passages as it was to consider what she had just said. When she played her guitar she had still another powerful weapon at her disposal: the spotlight's reflection off of her guitar. It was bad enough to be told what you had been guilty of without being blinded through the ordeal.

Fortunately the concert was anything but an inquisition. Her

songs were interspersed with witty monologue, and the songs themselves were varied. She dedicated one song to all of the men in the audience, "He's a Pretty Good Man if You Ask Me," and again used her spotlight reflection with great effect. Another song was a medley of



Buffy Sainte-Marie

"nyuah nyuah nyuah" (a Sioux folk song), "Honey, Take a Sniff on Me" (a Negro spiritual), and "Things Go Better With Coke." You can just imagine... Fully realizing what "turned Teckers on," she requested that the lighting crew arrange things so that the transparent (almost) dress she was wearing would fulfill its purpose. This had at least a few people wondering what was going on up in the control booth.

It was an amazing performance by a girl with a beautiful voice, great ability with the piano and guitar, and a burning message to present to the people of this nation. I wish her luck.

The New SMALL FACES ALBUM—Humble Pie

"Believe half of what you see, and none of what you hear." —Gladys Knight said that. Last week we said that the Small Faces were dead—we lied. They live on in the guise of Humble Pie.

You may well ask why we spend so much time on a nothing group like them, but in these troubled times, they are important. They were the primieval form of rock and roll, brash and adventurous—not serious and arty when they were clearly incapable—but just there to make music and have a good time. They were a good time group, with an infectious spirit of fun and excitement that comes right through the speakers. Humble Pie started with hype—after all in the summer of super groups, here were three group leaders splitting to form their own group; but strangely, they submerged into oblivion, until the flack fell of its own weight, and then put out a fine album, *As Safe As Yesterday* (IMOCs-101, Immediate). In this album, they show their major strong points—one, the gorup has three multi-instrument alists to give a varied song—two, it has three lead voices that can sing harmonies, and three, that it has three songwriters, again for variety. Thus, a number of moods are possible in the album, not the least of which is Steve Marriot's incredible voice, used especially well in the title cut and "What You Will" to bring out the pleading nature, the real desperation. On other cuts, they are offering tongue in cheek advice on what kind of girl to choose. In short, a good album that is magnificent in spots. However, on their second album, *Town and Country*, they are really moving, there is no excess, and every number is perfect. It is hard to believe that it is one group. The blending of talents is much tighter than Crosby Stills and Nash, and the product is every bit as professional. Plus, they are able to bring it all off in concert, because they are, and they realize it, entertainers. They are a quality group that realizes that they have a responsibility to their audience, to themselves and to the listener. I like them, so at least, give them a listen.

—Richard Strelitz

SANDERS' TRUCKSTOP; Ed Sanders; Reprise 6374

"Facing our civilization are hundreds of serious questions, and Ed is asking a few of them, such as 'Did Detroit invent the back seat to ruin the morals of America?' 'Why do they allow shopping centers to have parking lots so that kids could sell each other dope on dark nights?' and, 'Why is it that youngsters colour in the map of Jerusalem at Sunday school with psychedelic day-glo colors?'"

Ed Sanders, one of the more creative of the now defunct Fugs, shows off his unique talents as both writer and singer. And his vocal ability matches even that of his writing. Yaas. The album includes

such hits as "The Plaster Song," about the Plastercasters; "The Iliad," the further adventures of Jonathan Abner Tobias Pissoff; and "The ABM Machine," which asks that soul-searching question, "Are you a vampire, Melvin Laird?"

Backup includes "What a Friend We Have in Jesus" sung by the Apostolic Studio Choir on *Jimmy Joe, The Hippybilly Boy*. This turns out to be one of those you hear on KPPC once and maybe wonder where the hell they got such a piece of dog meat. Reprise Records is where. If you have the previous works of Ed Sanders, get *Sanders' Truckstop*. Otherwise, don't give a fug.

—B. A.

VALDEI = ANSWER (DID.U.-LIKE.TOMMY?) IF (VALDEI.EQ.NO) GO TO NEXT REVIEW

I'm glad you like the Who. But the next question: did you like the Who *before Tommy*? If not, perhaps you should look into some of the earlier works of Townshend's Commandos. In particular, I recommend *The Who Sell Out* (smb, Decca, DL 74950). The cover alone is almost worth the price; but, then, so are Tattoo, Mary-Anne with the Shaky Hands, I Can See for Miles, and many other very Who-ish. And, if you're feeling really rich, you might look into *Magic Bus* (DL 75064, or *Happy Jack* (DL 74892). If you happen to be into the English-version-versus-American controversy, *Direct Hits* (Track 613006) is a combination of the above three records plus a cuppla songs not released on any American record. The recording quality may not be up to usual British standards, but the music definitely is. In any case, look into older Who albums. See, they were good before, too!

—B.A.

The Persuasions—Acappella is an unpolished gem. It has none of the electric-symmetric beauty of a finely polished stone, but still possesses the natural beauty of life. Acappella means without musical backing, and this is just what the group does. They do the whole album without any help from the musician's union.

Side one of the album is a live performance and is the better of the two sides. It is a bit slow in getting started but once it gets going the

vocal harmonies will have you snapping your fingers and tapping your feet. Then you realize that this is the thing that some people call *soul*. Side two is not quite as good as side one. It is also done in the studio instead of on stage, and that may be the reason why. There is something lacking on this side—perhaps the spontaneity or crowd interaction of a live performance.

By far the best cut on the album is their rendition of "Old Man River." It is the South personified and an excellent piece of interpretive musicianship. Other bright spots are "Searchin' for My Baby," "Just Can't Work No Longer," and "It's All Right."

Now that the Temptations are on Broadway, there is a need for an all-male vocal group to take their old place. The persuasions are a good choice. It is an album every record and rock collector should have.

—Elliot Tarabour

Shorties

Battle of Northwest Six—Keef Hartley Band

On two cuts of this album, the band is untouchable; there has never been such fine integration of horns (two at a time) in a group. As is now usual with British blues groups, there is competence in the playing, a willingness to experiment, and a jazzy feel on some cuts. The album is worth having, but wait for the next one, because they can really cook.

A Song For Me—Family

Family is beloved by the British intellectuals, and hated by American reviewers. I'm undecided—I've bought all of their albums, and like them, but they are not magnificent. They try, and reach too far sometimes, but they can be listened to. Nothing decisive one way or the other. (I reviewed this because it came to the Tech office.)

—Richard Strelitz

Sea Train (A.M. Records)

Sea Train is a group that definitely shows its classical background. It is composed of 5

continued on Page Six



The wandering troubadour is back at the Ice House, in the person of Chuck Mitchell. More about him later. I like to talk about the acts in the order in which they appear.

Phil Marcus Esser is a talented singer from Detroit. His style is sort of a muted Joe Cocker combined with a smooth Richie Havens. At least, those are the two singers who came to my mind upon hearing Phil Esser. He does interesting things, such as making medlies of songs that most people might not think of together. He does a good job on most songs, ranging from the Beatles to Leonard Cohen. His amplified guitar is just perfect for his style, not quite folk and not quite electronic. Phil Esser is good, and he appears through Sunday.

Ron Coden is next on the show, and he has a good singing voice. He is also very funny when he wants to be. He is a pretty good guitar player, but his singing dwarfs his playing. His diversity in singing blues, songs from musicals, and folk pop hits, adds to the enjoyment one

feels while listening to him. His version of the blues thing, "The Work Song," is the second best I've ever heard. The same can be said for his version of the opening of "Man of La Mancha." Anyway, Ron Coden will be there through the 26th, except for the 20th.

The subject is finally back to Chuck Mitchell, where it belongs. Chuck Mitchell has a deep, resonant singing voice that fits itself around songs in many styles. He does "July, You're a Woman" far better

continued on Page Seven

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Cosmic Solitare

Idiot's Delight on Stage at Ahmanson

by Phil Neches

Idiot's Delight—defined as any of the various games of solitaire. The game has no real object, except to divert the player. Some have compared war to Idiot's Delight: a game played neither for fun or remuneration, but merely to be doing something.

Idiot's Delight makes that same metaphor. War seems a cruel game of solitaire played with men as the cards by a God who hardly merits the respect of intelligent men. The play makes this comparison by showing the manner in which men who would otherwise know better act like idiots under the stimulus of an impending war.

The play starts out as a rather artificial comedy. An assortment of travelers find themselves spending the night at a resort on the border between Italy, Switzerland, Austria, and Bavaria due to what at first appears a minor border incident. The action accordingly drags somewhat through the first two acts.

As the evening progresses, however, the minor border situation can be seen as only part of the general malaise which preceeded the outbreak of World War II (which is made somewhat more impressive when one remembers that the play was written in 1935). The light-heartedness of the travelers breaks into profound tragedy at just the strategically and dramatically right moment in the play.

A number of excellent performances enhance the play. Jack Lemmon has no trouble being a persuasive Harry Van, and in addition displays musical talents which the general public has never seen before. Leon Askin (TV's General Bouerkhauter) does a marvelous job as Dumpsy. Irene's part is played competently, but not brilliantly. The worst parts are the dancers, who are too bad to be straight, and too straight to be camp.

continued on Page Six

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So You Didn't Like The Academy Awards, Either

by David Dobrin

Well, the Academy has done it again. The selection process reminds me of an old cat struck by catnip. First, he surpasses the excesses of his younger days by howling and womanizing better than any of his younger compatriots; then he sinks into simpering simpering nostalgia. Unsure of what to do, he ends up running in circles. The selection of John Wayne is a tribute to sentiment.

But the choice of best actress devolved upon a true artist—Maggie Smith. No argument can be made with the award of Best Picture to *Midnight Cowboy*, but one couldn't argue with a choice of any of the five nominees. I favored *Butch Cassidy*, for I have a great respect for good craftsmanship. The effect of *Midnight Cowboy* was lessened by Schlesinger being too consciously "arty," but I was impressed.

The greatest offense to good taste was the choice of Goldie Hawn as best supporting actress. Any of the other four nominees would have been better. *Butch Cassidy* and *Hello Dolly* nearly swept the craft awards, possibly because they deserved them. To no one's surprise, "Z" won the best foreign film award. Perhaps some day the Academy will become liberal enough to award the Best Film Oscar to the winner of the Best Foreign Film Oscar.

Since the *Tech* is never going to get around to printing my long reviews of current movies, here are some short comments.

Butch Cassidy and the Sundance Kid—a fine flick.

Patton—the best movie I have

seen this year. The three hours seem like three minutes. It is a story of a powerful personality with an innate understanding of his place in history. The presence of Patton without which the war could have been lost, became intolerable during peacetime. His death a few weeks after the end of the war solved the problem which the film brilliantly poses.

Fellini Satyricon—Like most foreign films, *Satyricon*'s strength is its vividness; its weakness is its lack of coherence. It portrays a decadence totally beyond the scope of today's paltry unimaginative decadence. Like all bad dreams it comes to an end after many tries. Fellini fans will love it; so will raunch fans. All you normal people shouldn't bother.

Brotherly Love—Another film about madness overshadowed by the presence of the Scottish Highlands. Susannah York is very talented. So is Peter O'Toole.

Woodstock—There is no sense in evaluating this as a movie. If you would have gone to the festival or if you like to hear lots of good rock (although they did screw up the Sha-Na-Na's performance thoroughly), then go see this movie. It's not worth the four dollars they're charging.

Zabriskie Point—An interesting flick in many ways that does not deserve the put-downs that it has received.

The Ballad of Cable Hogue—A combination of *The Wild Bunch* and *Butch Cassidy and the Sundance Kid*. It is as good as neither but it is almost as good. I enjoyed it immensely.

Women in Love—A faithful recreation—as far as it goes—of the D. E. Lawrence novel; its strong points are the strong points of the novel. All of the conversation is lifted from the novel. Alan Bates and

Oliver Reed are simply brilliant. The casting of Gudrun is perfect. I loved the movie but I think few will agree with me. To enjoy this movie requires a taste for aphorism, and a highly sophisticated, tolerant appreciation.

Putney Swope—A friend of mine walked out of this because it was offensive. He had the right reason but the wrong reaction.

Start the Revolution Without Me—Except for *Putney Swope*, the funniest movie in town. In this year of realistic movies, I'm not sure how much that says. It is not flawed by the satire of virtually every form of cinema, but it is not improved. The old story of confused twins is taken about as far as it can go. Donald Sutherland, and of course Orson Welles, are very, very talented people and SRWM displays their abilities well.

Two Mules for Sister Sara—The best Clint Eastwood (*A Fist Full of Dollars*) flick, by far. The picture is saved for people who don't like Clint Eastwood by Shirley MacLaine. This weird combination is quite effective, actually.

The Adventurers—Yecch. I saw this for free. I got took.

The CinemaTech people are showing *The Gospel According to St. Matthew* this Saturday. At a dollar, it's the best value in town. Besides, you can see the moon rocks as well. If you disagree with me in any of these opinions, I'm perfectly willing to set you straight.

Now Can You Look Dr. Huttenback In The Eye?

The week's movies ranged from a G pair of films to an X rated set. None had redeeming features—first to the freebies—*The Cockeyed Cowboys of Calico County*—this movie stars Dan Blocker as a shy

blacksmith spurned by a mail-order bride. As usual, our hero is strong, but gentle, and none too sure of himself. After he invites the whole town to view his bride's arrival, he is very depressed, and decides to leave town to avoid ridicule. But he is the only blacksmith in the area, and a necessity; that is the plot. There is the subplot of Nannette Fabray's attempt at respectability (she is the dancehall girl, but is drafted by the town's men to act the part of the hero's missing paramour). I was glued to my seat, and I do not feel it within the bounds of journalistic ethics to reveal the ending.

Because the screening was held in a legitimate theatre and not a studio screening room, there was another film—*A Boy Named Charley Brown*. This film should not be seen, because any depth and humor present in the strip are killed by the overdose of sugar.

Now to the meat of the week—*The Dean's Wife* and *The Pickup*. One can dispose of the first by saying outside of a lot of moaning, the only interest in the movie is figuring out how little the producers tried for realism. *The Pickup* was a mistake—the movie had a real plot, reasonable acting, it would make a good second feature, but then they shot for the "adult market." The sex, which is reasonably well done (no uglies in this one), is for the most part, gratuitous and not essential. However, you did watch this film and it was well done, including a smattering of real cinema techniques—stills, pans, zooms. The first good raunch film.

—Richard Strelitz

Social Chair Report

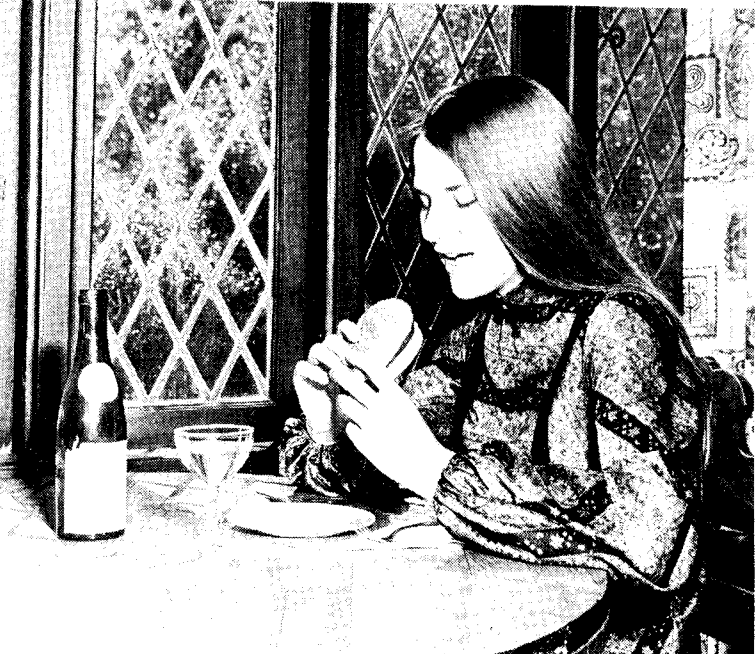
continued from Page One

Apes. Even so, everybody said it was well worth the \$.50 charged.

In closing, I would just like to mention that a week from tomorrow, (viz., Friday, April 24), we are showing *Rosemary's Baby* in Culbertson at 7:15 and 9:45 p.m. (With all the improvements and on time.) I realize that this is the same night as the C.E.A.C. dance, but the band has agreed to play two, two-hour sessions that more-or-less coincide with the presentations of *Rosemary's Baby*. Thus you can attend the movie, and still dance for a full two hours, or vice-versa.

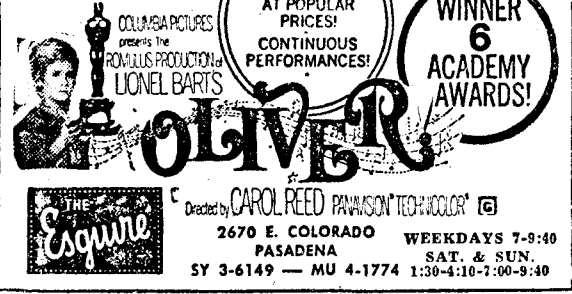
The ASCIT money tree is still going strong. See Terry LaGrone, ASCIT Treasurer, in Winnett about ASCIT money.

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Fisher

continued from Page Three
his commitments. These will be gathered at the end of each term into a formal report to his Committee.

All proposals, work contracts, written evaluations, papers, bibliographies, problem solutions, research reports, and examinations will be kept in a permanent portfolio. Grades will not be a formal means of evaluation in the program. It will be kept in mind that application for jobs or Grad School will be based on extensive recommendation.

The Advisory Committee (or the participant himself) can toss the student back into the regular curriculum. They would recommend, subject to approval by the Standards and Honors Committee, the remaining requirements to be fulfilled. This might delay graduation.

If anyone would like to look at the actual proposal, which goes into a good deal more detail, I have extra copies. I feel strongly that such alternative avenues for education are needed at Caltech, and I am quite enthusiastic about this particular plan. If any of you have an idea of what you might like to do under such a structure, I would very much like to hear about it. The program is not advertised as a large-scale replacement for the present curriculum. Only a small number will be able to participate. This is primarily because of limitations on Faculty time—even with the involvement of Graduates and Post-Docs. But its effects might extend far beyond the program itself.

At this point the proposal is stated as a two-year experiment. The idea of Independent Study is not new, this specific plan hasn't cleared any formal committees yet, so there is no way to tell when it might actually get off the ground. With solid support it is feasible, however, to think in terms of late next year.

Before then, there's a lot of discussion that has to be done.

Short Reviews Get Longer And Longer

continued from Page Four

people—two from the now-defunct Blues Project. The record is a combination of rock and classical jazz-rock. Outstanding features on it are the excellent flute work of Andy Kulberg and a violin that is not over-electrified or ostentatious. It is a very pleasant record, and the excellent musicianship makes it a worth while addition to any collection.

Sea Train (A&M Records). Sea Train, a group of five, 2 from the now-defunct Blues Project, definitely shows its members classical backgrounds. The record is a combination of rock and classical jazz rock. Outstanding features are the excellent flute work of Andy Kulberg and a violin that is not over-electrified or ostentatious. It is a very pleasant record and the excellent musicianship makes it a worth-while addition to any collection.

—Dave Dixon

The Rod Stewart Album; Rod Stewart; Mercury SR-61237.

Almost all the personnel on this album were sidemen in the Jeff Beck Group, but this time, instead of providing heavy rhythm backing and screaming vocal accompaniment for Beck's harsh, exhibitionist guitar playing, the band has released a superior blues album. Stewart is an excellent songwriter, and sings each one of his compositions perfectly whether it be hard blues or mournful ballad. His vocals here are much mellower than on the Jeff Beck or Small Faces albums. The instrumental work, featuring Don Wood on bottleneck guitar and Nick Hopkins on keyboards, is as good as can be heard anywhere. Listen to this album a few times; you will enjoy it more with each playing.

—Jon Jacky

Chicago 7 vs. American Justice

continued from Page Two

Mayor Daley (whom Hoffman refused to declare a hostile witness for the defense), virtually every one of the ninety questions put to Daley was ruled out of order by Hoffman. At the conclusion of the examination when Kunstler read a defense statement that attempted to demonstrate a conspiracy between Daley and other officials to suppress the anti-war demonstrations, the jury was hustled out of the

Wright & Logan

continued from Page Three

"religious" includes anyone with a sincere and deeply-held conviction. Anyone who objects to participation in war should, after careful preparation, apply for conscientious objector status. Although one may apply at any time, Selective Service is suspicious of those who apply after failing to affirm their conscientious objector stand when filling out the *Classification Questionnaire*.

In order to be a conscientious objector, a registrant does *not* have to (1) believe in a god, belong to a church, or attend a church regularly or (2) be opposed to all violence or even to killing someone in self-defense. All that is required is that he sincerely be opposed to war—*indiscriminate mass violence*.

Each of you should begin *now* to think about your individual position. Investigate the non-violent alternatives to war. There are many examples of groups and nations responding to threats traditionally met with war: for example, the Danish resistance to the German occupation. Unfortunately, such examples (when mentioned at all) occur merely as footnotes in most textbooks. Information is available, however, in paperbacks such as *Civilian Resistance as a National Defense*. Do yourself and the future of man a favor by at least looking into the alternatives to war.

Summary, Etc.

(1) Don't blindly believe what your friends, parents, teachers, local board clerks, etc., say about the draft. (2) *Keep a record* of any and all interactions with your draft board. It's best to do everything by mail. Send letters certified mail, return receipt requested. Keep a copy of everything you send. Keep everything they send. (3) Keep the board informed of your current mailing address. If you move around a lot, have the mail sent to someone stable like your parents. (4) *Think* about your situation and your alternatives well ahead of any time you may need to make a decision, *especially* before registering at age 18.

courtroom and not allowed to hear the statement. This was by no means atypical. It has been estimated (as reported in *Time*) that the jury was not permitted to hear about one third of the defense testimony. Two key witnesses were not even allowed to testify. Coincidentally, one of these was Ramsey Clark, John Mitchell's less conservative predecessor. The other was Ralph Abernathy whose testimony would have demonstrated the extreme difficulty faced by leaders in the attempt to control demonstrations subsequent to police violence. Throughout the trial supporters of the defendants were harassed and brutalized in the courtroom by federal marshalls. Before the final sentencing, the family members of the convicted defendants were evicted from the courtroom to "prevent demonstrations." One of the eight defendants, who was later separated from the other seven, Bobby Seale, was at one point during the trial actually bound and gagged.

After five months the trial was concluded. The results are even more outrageous than the trial itself. As the jury deliberated, Hoffman began meting out contempt sentence en masse. In order to evade a 1968 Supreme Court ruling prohibiting the dispensation of sentences in excess of six months without a jury trial, Hoffman meted out a succession of smaller contempt sentences under six months to be served consecutively by the defendants. Many of these smaller contempt sentences were for absurd offenses. For example, Dellinger received a three day sentence for arguing with Hoffman (Julius) over which toilets the defendants were to use during the trial. Dunstler received a six month sentence for embracing Abernathy in the courtroom after Hoffman ordered (with the jury in the courtroom) that the presence of that individual not be pointed out to the jury. At the conclusion of his tirade, Hoffman had imposed the following contempt sentences on the defendants and their lawyers: Dellinger—29 months, Davis—22 months, Hayden—14 months, Hoffman—8 months, Rubin—26 months, Froines—7 months, Weiner—2 months, Kunstler—48 months, and Weinglass—20 months. Although none of the defendants was convicted of crossing state lines for the purpose of inciting riot, five (Dellinger, Davis, Rubin, Hoffman, and Hayden) were convicted of crossing state lines for the purpose of participating in a riot and received a five year—\$5000 fine sentence each. In addition the five convicted were ordered to pay the full cost of the trial, which has been estimated to lie in the range of

\$60,000-\$100,000, and cannot be released until that obligation has been fulfilled. Finally, Hoffman denied the five convicted defendants bail pending the appeal of the trial. This last ruling, however, was almost immediately reversed by a higher court.

These are the basic facts concerning the conspiracy trial concluded last month. It has been argued that the conduct of the defendants during the trial belied any wrongdoing by the judge. First, it should be noted that the contempt sentences meted out by Hoffman are the harshest in the history of the American judicial system and that they carry no possibility for parole. Furthermore, it is the opinion of the authors that the American people, having come to expect a high standard of excellence in their judicial system, are entitled to something better than what Justice Hoffman has given us. Although the behavior of the defendants in the courtroom is not to be lauded, it is certainly understandable in the face of the extreme bias exercised by Hoffman in the conduct of this case.

Our purposes in submitting this referendum to the electorate are two-fold. First, it is an attempt to consolidate what we believe is a significant number of opinions of concerned individuals regarding this event. Second, it is an attempt to generate a greater social and political awareness in what we believe to be a generally apathetic student body. There are those who maintain that the university is not a proper forum for political activity. It is our contention, however, that if this country is to survive the century, its students must demonstrate concern over and actively engage in its political affairs. With our lives and freedom at stake, we cannot afford to be apathetic. Perhaps if the scientists on the Manhattan Project had exercised a greater degree of social responsibility, the tragedies of Hiroshima and Nagasaki could have been avoided.

The UCLA MARDI GRAS will be held on April 24 & 25 at the Athletic Field. Go and support a worthy cause.

—An Editor

Idiot's Delight

continued on Page Five

The play is at once diverting and thought-provoking, and is well supported by both the key members of the cast and the technical department, who won an all but standing ovation—just for the set design.

NEWS BRIEFS . . .

continued from Page One

teenth, seventeenth, eighteenth, and nineteenth centuries pointing out the dangers and harmful effects that can occur from exposure to polluted air. The books will be on display on the first floor of Millikan Library from April 20 through April 24.

In addition to the exhibit, a bibliography will be furnished covering the most current sources of information available on the topics of ecology, pollution, conservation, the quality of life, etc. from the various libraries on campus.

Student Shop Elections Saturday

Annual Student Shop elections will be held this Saturday at 10:30 a.m. Also, all junk will be cleaned out.

Undergraduate Fellowships in Mathematics for the Summer

The Division of Physics, Mathematics, and Astronomy has established a number of fellowships from the President's Venture Fund to support research and independent study programs for Caltech undergraduates in mathematics during the summer, 1970.

Applications should be submitted to Professor Richard Dean no later than May 15. Any Caltech undergraduate is eligible to apply. Recipients for these fellowships will receive a stipend of \$1200 for ten

weeks.

For further information, contact the Mathematics Department.

Passover Seder To Be Held on Campus

The Caltech Hillel Club is holding a Passover Seder in the Athenaeum on Monday, April 20, at 6:30 p.m. All persons interested in attending should contact Marvin Mandelbaum, 136 Ruddock, as soon as possible, for reservations.

Notes and Comments Department Department

Remember the genial Dean's Open House this Sunday. Dr. Huttenback will, as usual, provide beer and pizza, provided that you provide your own mug. See you at Arden House at 3 p.m.—Our best wishes to the Apollo 13 astronauts: they need them. If only we could handle political crises as calmly as NASA handles technological crises.—Once upon a time, there was a school board. It dragged its heels on the desegregation issue. Then it got a Court Order. They then came up with a Good Idea. Now, some are trying to recall the Big Bad School Board for (a) obeying the laws as interpreted by the courts and (b) for doing so with a modicum of style. If you are interested in working against the recall against the Pasadena school board, see Bob Fisher or Dr. Oliver.—Very brief is the news this week in News Briefs.

an evening with

BILL COSBY

for **Mrs. Medgar Evers**

Tickets: \$3, \$4, \$5, \$6. Two performances:

Friday, April 24--8:30 p.m. Bridges Auditorium, Claremont Colleges

Tickets at box office, all agencies and Ticketron. Phone 714-626-4523

Thursday, April 23--8 p.m. Pasadena Civic Auditorium

Tickets at box office, Mutual, Wallichs Music Cities, Liberty and Southern California

Music Company. Phone 213-449-9473.

Evers for Congress Committee, Mrs. Janis Weinberger, chairman, 401 Harvard Avenue, Claremont, California 91711

Ruddock, Fleming

Trump in

I H Bridge

Fourth?

Fleming and Ruddock both won crushing victories in the second round of the Interhouse Bridge Tournament, played last Sunday night. Ruddock widened its elad over second place Fleming by blitzing Lloyd by 88 international match points. Fleming defeated the McDonnell team, one of two non-house teams entered in the event, by 55 imps. In other action, the Tyler team beat Ricketts by 44 imps, after leading by only 4 at the half, and Page took a hard-fought match from Blacker by 13 imps.

Standings at the end of two weeks, with Lloyd and Dabney have had byes are:

Team	Victory Points
1. Ruddock	40
2. Fleming	39
3. Page	31
4. Tyler	19
5. McDonnell	17
6. Blacker	8
7. Dabney	4
8. Ricketts	1
9. Lloyd	0

Blind Leads for Deaf Players

by Robert Geller

Terence Reese, the famous British bridge star once wrote that blind leads were for deaf players. By that Reese meant that the bidding always gave some clue pointing to the correct opening lead, even if that clue was only the absence of any descriptive bidding by the opponents. If for example, the bidding has proceeded 1 NT—2 NT—3 NT, it is wise to make a passive lead if no truly outstanding choice presents itself. The auction has indicated that the opponents have barely enough strength to contract for game, so the lead should give nothing away. Since there is no urgent need for the defense to establish its tricks quickly, no risks should be taken.

If the opponents have shown an excess of points, or long running suits, safety is no longer a very important factor in choosing the opening lead. Rather it is necessary to attack at once, establishing and cashing your tricks, hoping that they are enough to set the contract.

Giving away overtricks by attacking is the overhead that must be paid in return for the contracts that frequently will be set. This policy of attacking must be tempered with

North			
S A K 9 4			
H A K Q			
D K J 7 4			
C A 9			
West		East	
S 10 3 2		S Q J 7 6	
H 9 6 5		H J 10 8 7 4	
D A 9 3 2		D Q 10 6	
C 7 4 3		C 6	
South			
S 8 5			
H 3 2			
D 8 5			
C K Q J 10 8 5 2			
Neither vulnerable			
The Bidding			
South	West	North	East
3 C	pass	6 C	pass
pass	pass		
Opening lead: two of diamonds			

caution in a match-point event, where overtricks are important. Even there, as today's hand illustrates, it is sometimes correct to attack.

When good opponents blast to a slam as they did in today's hand it is almost a dead certainty that they will make it, given the time. For bidding the slam, North almost certainly has control in every suit, and enough cards in the side suites to handle all of South's losers. West could see that if the slam was to be set it was necessary to take two fast tricks. From bitter experience West knew that he would not get a very good score by cashing his ace to hold the slam to twelve. So he made the attacking lead of a low diamond, giving South the chance to take all the tricks, for no extra match points, since no one else had bid a slam. Declarer guessed wrong, playing the jack from dummy, and the defenders took the first two tricks. Six notrumps played by North is of course cold, since the diamond king is protected.

Throop Beat

continued from Page Two

articles) the article has only a few things to say: 1) everyone hates pollution, and blames the other guy for it; 2) the problems are very great and complex; 3) we're going to try to be groovy guys and fight pollution too, as long as it doesn't cost us anything; 4) our contribution must be "unique," in other words, it must be easily convertible into good public relations. Everyone knows that point 2) is true, the article itself is a good example of point 1), and the last two points are very illustrative of the Institute's views of many things, I fear.

Of course, there are extenuating circumstances for such a wishy-washy state of affairs. How nice it would be if Tech had infinite money, but alas we do not. Faculty interest in an early proposal for an Environmental Laboratory was disappointingly low. Further, if Dr. Brown pursued too independent a course, the Board of Trustees might boil him in oil, a commodity of which said Board has no lack.

Nevertheless, the point is that nobody has infinite money, and no moral credit attaches to work done out of infinite money. If the Institute really cares about the problems, it will do something, even

if nobody else can be found to foot the bill, and even if it requires some reordering of Institute priorities. If *Science for Mankind* is to be anything but a fund-raising slogan, the issues here seem rather obvious.

So They Tell Me Dept.

ASCIT appears to be in trouble finding people to run the publications next year. I wondered when it would happen. ... The P. E. Requirement may at last be going. ... Conversation overheard at the end of ecology discussion: —"What Tech should do is take about 600 kids out of the ghettos, arm them with Molotov cocktails, and send them out to blow up all the polluting plants." —"Shit, do you know how much pollutants there are in Molotov cocktails?" —"Hey, there's an appropriate problem for Tech to work on." ... The Administration is keeping busy these days. ... A Willy Willie Armstrong rally is coming up May 2. ... Last time I was by, that area between Gates and Crellin was still lying stark and fallow.

Frets & Frails

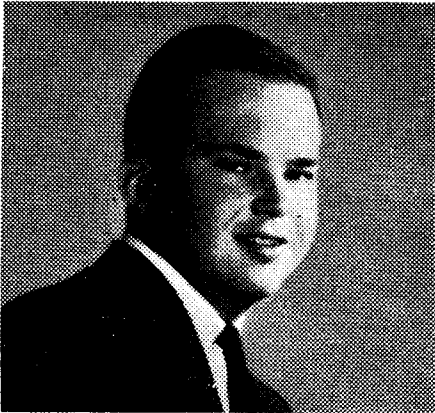
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than the original, and does the same for some other songs. His version of one old Baker Street Irregulars song is tied with the original (or other) in my mind, which shows you how good he is. Brecht songs are done in such a manner as to really move the audience. Occasional poetic interludes either tie a set together or just give you something to think about. Usually both. I strongly urge you to see Chuck Mitchell between now and the 26th. (By the way, the show is a little longer than normal, so don't schedule yourself too tightly.)

Further note: Jean Durand and The Dynasty appear with Chuck Mitchell and Ron Coden April 21-26. They are a calypso-folk-pop group, and promise to be interesting. To get to the Ice House, just go down Colorado to Mentor (E. of Lake) and turn North. The sign is almost immediately. See you there!

—Nick Smith

Doug Taylor
got his B.S. degree
in Electronics Engineering
in 1967.



Doug is already a senior associate engineer in Advanced Technology at IBM. His job: designing large-scale integrated circuits that will go into computers five to ten years from now.

The challenge of LSI

"Most of today's computers," Doug points out, "use hybrid integrated circuits. But large-scale integration (LSI) circuit technology is even more complicated. I have to design a great many more components and connections onto a tiny monolithic chip."

"I'm one of a five-man team. When

we're assigned a project, we look at the overall problem first. Everyone contributes his ideas. Then each of us takes over his own part of the project and is responsible for designing circuitry that's compatible with the system."

Computer-aided design

Doug regards the computer as his most valuable tool. "It does all of the routine calculations that could otherwise take hours. I can test a design idea by putting all of the factors into a computer. And get an answer almost instantly. So I can devote most of my energies to creative thinking. It's an ideal setup."

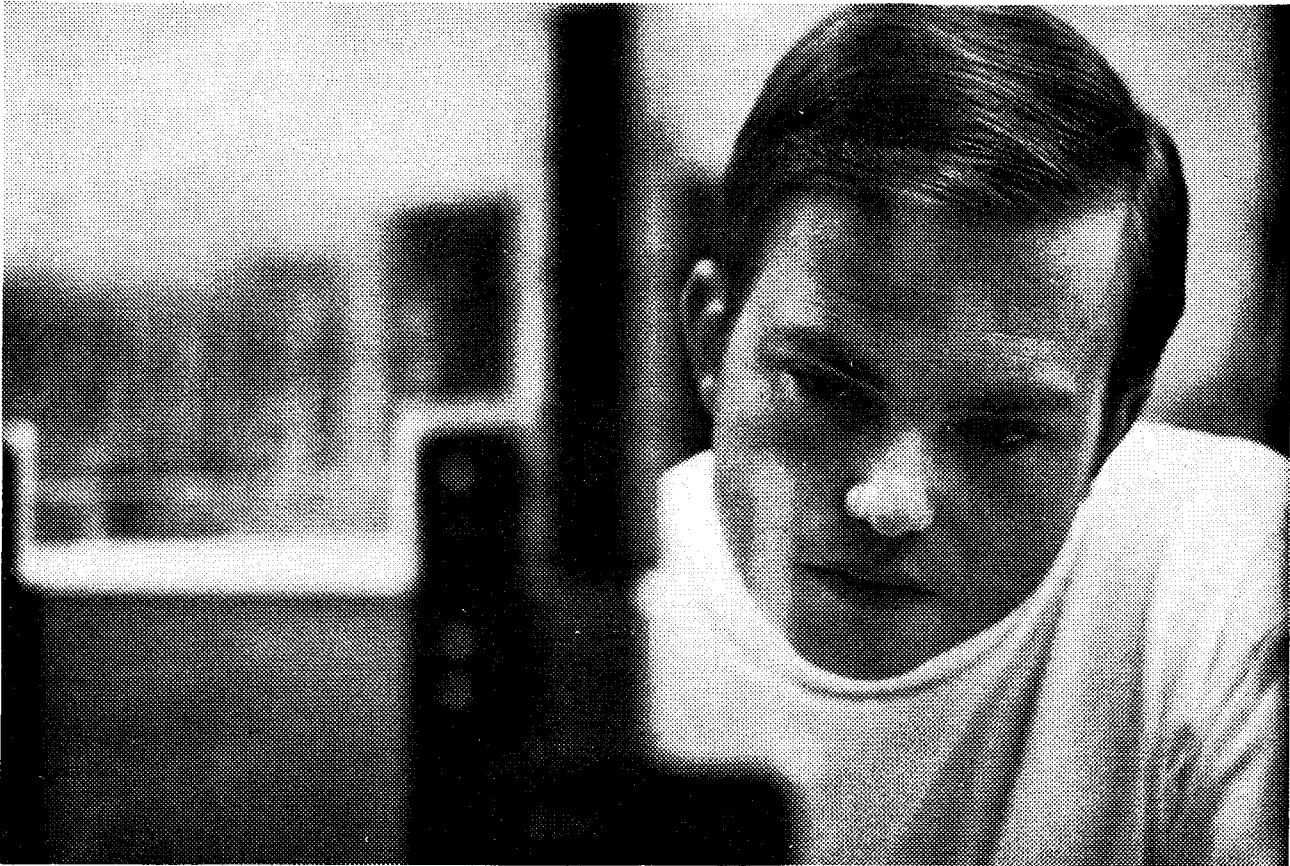
Visit your placement office

Doug's is just one example of the many opportunities in engineering and science at IBM. For more information, visit your placement office.

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Miller Continues With The Saga Of Page House

continued from Page Three

true, which was cold comfort to the 120,000 people who were taken advantage of by this most special offer, in which there was nothing to buy and a definite time limit for the Techers running the operation. The money went into the coffers, and the post cards came back to the victims with the same picture of Eileen Feather rubber-stamped on the back of the card.

And a group of New York maniacs went home with a formula one of them had discovered in a chemistry journal while flunking Chem 1 lab. He mixed up a gallon or two while the others spread the word in Harlem and elsewhere that the Russian legation at the U.N. was paying \$5 a gallon for glass bottles full of cockroaches, and hinted at sinister experiments. With a little help from friends the overburdened New York telephone system fouled up once more, just as the Russians

were trying to call for the army, or an exterminator. The New Yorkers and their truck, which had been sprayed inside with the super-powerful roach bait, arrived just as the last thousand bottles were being thrown at the hapless Russians. They left not many minutes later with an undisclosed amount of money, a semi-trailer load of roaches, and a secure place in the legends of Fun City.

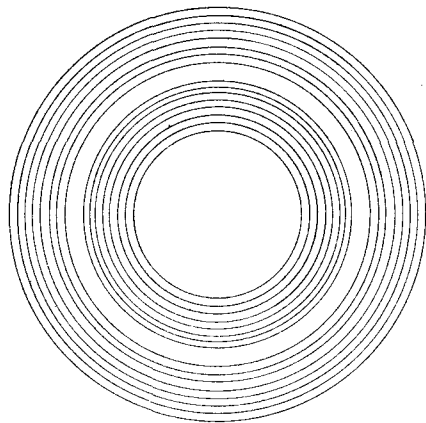
With plane fare thus assured, and enough left over for a number of incidentals, and third term ended as third terms usually are ended. Action sped up in the plan, so that soon it came to pass that Lee Starling played a game of tennis with King Constantine in Monaco, and said, as the game was drawing to a close, "Hey king, want your country back?" Neither the king nor his bodyguard took the question seriously. Thus it happened that the king's karate teacher became ill (indigestion courtesy of

Flowers and his emetic mouthwash) and was replaced by three of Mr. Ohshima's peerless menaces, who told the king they were going to teach him a move called the *hayakawa*, and managed to hold him down long enough to prove to him that there really was a sinister conspiracy to restore his throne. As his bodyguard was staring at a hypnotically flickering closed-circuit tv, convinced that a tiny purple fronwardiak was about to run or pole vault over his face (back and forth; it would have tickled terribly) the king was temporarily at a loss. After he proved that the *hayakawa* was no good, he seemed calmer (in the opinion of those who did not have broken arms to distract them) and finally announced in perfect English, "You kids are crazy!" He also said, "I've often wondered why it took me so long to discover that being fabulously rich and not being king has the king business beat all the way. No Archbishop Makarios,

no colonels to worry about, endless numbers of beautiful women..." Unfortunately for the lavish king, his champagne had other gases than CO₂ in its bubbles. The rationale for this was that he would be more willing to govern if he woke up and found that he had a job again, so we kept him in a truck until the affair was over.

Meanwhile a band from Israel managed to convince the Greek customs officers that all that electronic stuff really was amplifiers and wah-wah pedays, and, elsewhere in Athens, a folk singer who called himself Paul S. Delaney neither played his guitar nor wrote science fiction on his typewriter because they were both made of plastic explosive. And no one noticed the divers under the oil when the Volga Pride had an accident on its way to the Black Sea. (And after all the sneering we did when they got back from New York with rubles!)

To be continued next week.



SPEAKER PROGRAM

Monday — The Nature of the Problem

Noon—Ecosystem Happening
1:00 —Poetry Reading: Prof. David Smith, CIT
2:00 —Spaceship Earth: Dr. Irving Bengelsdorf, L. A. Times
3:30 —Noise Pollution: Dr. Elizabeth Quadra, Wyle Labs
Evening—EcoRap Session: 7:30 on ...

Tuesday — The Technological Basis

10:30—Electric Power Production and the Environment: Prof. Jack McKee, CIT; Prof. Norman Brooks, CIT; Dr. Tihiro Okahwas
Gulf General Atomic; Mr. Sherman Buese, So. Cal. Edison.
1:00—Problems of Trace Elements: Prof. Lester Lees, CIT; Dr. Claire Patterson, CIT; Prof. James Morgan, CIT; Prof. Jack McKee.
2:00—Air Polution Control: Prof. A. J. Haagen-Smit, CIT.
3:00—Marine Ecology and Ocean Pollution: Prof. W. J. North, CIT.
4:00—Rep. George Brown, Jr.
Evening—EcoRap Session: 7:30 on ...

Wednesday — Today's Issues

9:00—Air Polution in L. A.: Prof. John Seinfeld, CIT; Dr. James Gregory, Union Oil; Dr. William Hoffman, Atlantic Richfield; Mr. Alan Stein, CIT.
10:30—Local Environmental Issues: Hon. Marvin Braude, L.A. City Council; Mr. John Pastier, L.A. Time; Dr. Richard Ball, RAND Corporation; Dr. Elizabeth See, E.B. See Associates; Mr. Douglas Ford, Development Research Associates. Mr. Gene Clough, CIT
Noon—Art and Ecology Happening
12:30—People Pollution: Prof. James Bonner, CIT.
2:00—Population Problems: Prof. Alan Sweezy, CIT, Prof. David Kaplan, Santa Monica City College.
3:15—National Environmental Issues: Mr. Malcolm Roberts, Asst. to Secretary Hickel.
4:00—Ecology Faire Opening
4:30—EcoFilm Festival
Evening—EcoRap Session: 7:30 on ...

Thursday — Oil On Water, A New Religion

All Day— Ecology Faire
9:30— Water Quality Control: Mr. E. F. Dibble, State Water Resources Control Board.
10:30—Santa Barbara Oil Spill: Mr. WiGeorge Anderson (Film)
11:00—Get Oil Out: Mr. William Samaras, GOO Two.
12:30— Mr. Philip Berry, President Sierra Club
1:30— Water: Mr. George Anderson (Film)
2:00 - California Water Plan: Mr. James Doody, Cal. Dept Water Resources; Mr. Philip Berry, Sierra Club; Mrs. Virginia Brody, Planning and Conservation League.
3:30—Ecology and Religion: Mr. Les Atkinson, UC San Diego
4:30—EcoFilm Festival

Friday — Personal Commitment

10:00 — Cliff Humphrey Ecology Action, Berkeley
11:15 — You Can Fight City Hall: Mrs. Jena Astrin, Foothill Areas Association (FAA); Mr. Ben Schil, FAA.
12:15 — Feed-In
2:00— Food to Eat: Prof R.G. Lincoln, Cal State Long Beach
3:15—Beyond The Teach In: Paul Wegener, CEAC, Jerry Yudelson, CEAC

Evening — Earth Day Celebration

welcome. to our teach-in on the environment.

Here you will find expert information, given by the experts. You will find sources for more, opportunities for action, the direction needed to guide a movement of lasting impact in the battle against all forms of pollution — chemical, physical, and people and spiritual.

Welcome to our Ecology Faire, to enjoy handmade goods, and art and music and the grass and air and sun and a togetherness of all brothers and sisters who love to live.

Welcome to our Earthday Celebration, to joy and glory in the Creation that surrounds us; to lift a voice in song, laughter and greeting; to eat a meal of the Mother's gifts, the seeds that nourish, to fashion alone, together a dream of light and darkness, of living and dying, of unity and separation — harmonies, balanced with ourselves and the world about us.

During the Environmental Teach-In week we will not be exposing once again the evils of pollution, population and consumption — everyone already knows about these problems, although they may not be conscious of just how bad they are. We wish to go beyond this simple conception, beyond the notion that just because this comfortable, selfish consumer society will disappear, one way or another, within fifteen years, the world will end, and we are relieved now of our responsibility or right to live and live well. Since moaning, research into technological whiz-bang cleaner-uppers, horse recriminations against them that pollute, and legislation pure and simple are all equally useless in brenging us to a balance with ourselves and our world, the Teach-In will attempt to ask the question of what is wrong and how we can fix it in a larger context. This week will help us prepare for a world changing, show us how to help that world of tomorrow be livable and living, shape a dream and work towards it. There will be hard knowledge, soft knowledge, exhibits, music, fancy clothes and jeans, happenings, discussions, joy and despair, food and drink, grass and trees, and, if our luck holds, clean air and sunshine.

Welcome.

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