

IF IT'S THE CALIFORNIA
TECH AND THE SUN IS
STILL SHINING. . .

The CALIFORNIA Tech

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THEN THIS MUST BE
THURSDAY!!!!!!!

Volume LXXI

Pasadena, California, Thursday, May 21, 1970

Number 29

Chronicle Editor Newhall To Speak, Newspaper Establishment

by E. Gansner

Special Y-sponsored activities for the coming week complete the "Future of the Techer" program and feature a visit by Scott Newhall to the Tech campus.

Scott Newhall, who is the executive editor of the *San Francisco Chronicle* will be on campus May 25. Newhall, who owns several other papers besides editing the *Chronicle*, is one of the more outspoken critics of Governor Reagan and Lt. Governor Reinecke. During the People's Park conflict in Berkeley, he offered to buy the park from the state and give it to the people. He has an avid interest in education. And, despite the comments of McLuhan and Friendly, he still has faith in the newspaper as a communication medium.

Olive Talk

While on campus, Newhall will give an Olive Walk Talk at noon on "Higher Education as Viewed by the Newspaper Establishment." Then, in the afternoon from 4 to 6, he will participate in a Drop-in Seminar in Winnett on the future of the newspaper.

Then, on May 27, the "Future of the Techer" program will conclude with Albert Hibbs, Caltech grad and a senior staff scientist at JPL. He will be representing the scientific research aspect of what a Tech graduate can do with his education. From 4 to 6 there will be a Drop-in Seminar in Winnett, and then at 6:30 he will eat dinner in Page House. After dinner there will be an informal discussion in Page with everyone invited.

In case you didn't notice, Norton Simon was not here last week. The Y received word from him that he had a press conference scheduled and would not be able to make it. However, there is still a chance he may be here before the end of the year.

News Briefs

Leighton Named Ph, Ma, Ay Head

Dr. Robert B. Leighton, Professor of Physics and Caltech Alumnus, was named Monday as Chairman of the Division of Physics, Mathematics, and Astronomy. He will replace Dr. Carl Anderson September 15, 1970.

Dr. Leighton, 50, took his B.S., M.S., and Ph.D. from Caltech and joined the Caltech faculty in 1947 as Research Fellow. He has been on the staff of the Mount Palomar and Mount Wilson Observatories and is renowned for his use of cosmic rays to study sub-atomic particles. He also pioneered the use of television cameras aboard the Mariner space probes.

Dr. Anderson is stepping down after forty years on the Caltech faculty. He has been Division Chairman since 1962.

California Tech Staff Photo

After many weeks of trying we, the under-not-signed have declared an ultimatum. If all those who have worked on the Dreht for the past harrowing months do not show up



RAY BRADBURY speaks Saturday in Winnett Lounge

—photo by Ctein

Signing Blank Check

Proposition 7 Controversial

by Jerry Yudelson

The most important environmental and economic issue on the June 2nd primary election ballot is Proposition 7. All concerned ecology action and conservation groups are working against Proposition 7, as well as a coalition of labor unions, taxpayers groups, and black and chicano community organizations and candidates. One argument against Proposition 7 is that it would cause more inflation.

Proposition 7 provides that state bonds may be offered to banks at up to 7% (5% is the current limit), and if this rate is not sufficient to sell these tax-free bonds, a 2/3 vote of the legislature can authorize ANY RATE necessary to sell them.

The passage of Proposition 7 would put the official backing of the state behind current artificially high interest rates. In 1969, every bank in the country made record increases in

profits. It is not the state's job to insure these profits. Rather, every effort of government should be directed toward lowering interest rates, in the interest of all its citizens.

\$1,300,000,000 in tax-free bonds offered on the open market at 7% OR HIGHER will have a devastating inflationary impact in California at a time when the state's municipalities are looking hopefully at a downward trend in public bond interest rates. This will be another blow to the already heavily burdened taxpayer, since it will drive up interest rates for all business, construction, home improvement, mortgage, and other loans.

If Proposition 7 passes, the public could no longer be sure of the cost of projects it agrees to finance by bonds—it is, in fact, signing a blank check. When you buy a car on time, you agree to pay a definite interest rate which cannot later be exceeded. The same principle should hold for public approval of bond issues.

The passage of Proposition 7 would continue a widespread pattern of taxpayers' subsidies to private interests. \$600 million of the bonds unsold at the current 5% interest rate ceiling are for construction work on the State Water Project. This huge engineering commitment, presented to Southern Californians as the only alternative to imminent death by thirst, was originally designed to help big land owners get around the 160-acre limit on farm size for water provided by the federal Central Valley Project. Public financing of the new West Side Aqueduct would open up to agricultural development over a million acres of corporate-owned arid land on the San Joaquin Valley's west side.

Today, Central Valley agriculture has many serious problems not visible ten years ago when voters approved the original Water Project bond issue. (Presented then as TOTAL COSTS, the \$1.75 billion bond issue now has proven to be over a billion dollars too little!) Above all among these problems is the extremely dangerous level of pesticide injury to farmworkers. It may not be high in the priorities of California voters in 1970 to put into production at taxpayers' expense another million acres for the

Potential Big Braves Will Meet Friday

All students, undergraduate and graduate, interested in being a Big Brave next year are invited to a discussion and planning meeting tomorrow, Friday, in Ruddock House lounge at 12:00 noon. The program, called the Little Braves Program, gives students the opportunity to meet with fatherless boys, ages 6 to 9, about every two weeks for an hour or two. The Big Braves relate to their Little Braves on an individual basis. Mr. Larry Owen, Youth Director of the Pasadena YMCA, will be in Ruddock along with members of the tribe that was started this year. House Presidents are also asked to come.

Project Anyone?

Needed Sponsorship for Summer Project "The Los Angeles Counter

Continued on Page Three

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Protest Rally Monday For Jackson Victims

by Dave White

A rally Monday noon protesting the Jackson State killings attracted 80 people and led to the first confrontation between students and administration in Caltech history.

John Webb, R.A. of Dabney, opened the rally by outlining the history of the shootings at Jackson State and Augusta G, Ga., and pointed out reaction in the white community and national press were not as strong as those from the Kent State shootings. Lee Browne, Caltech Junior High School Science Project Director and Science Coordinator, Pasadena Unified School District, discussed the way Caltech students could try to gather unbiased information on the incident and try to get it out to the community. Al Schleuter, postdoc in chemistry, described the incidents he had witnessed while teaching near Jackson that showed the hostility of white policemen.

Two Caltech student members of the Black Student Union deplored what they called a double standard in the reactions to the Kent State and Jackson State killings. The first, Price Walker, from Columbus, Ga., said that this was nothing new to blacks in the South. Bill Hocker added that the Institute flag was not flying half-mast as it had been after Kent State.

When John Webb pointed out that the administration had not responded to such a request earlier in the day, there was a large expression of interest by the crowd that the request be made en masse.

After peacefully gathering around the flagpole near Millikan pond, the group, which eventually swelled to 100, awaited word from Harold Brown, who had hurried back from lunch to consider the request. When no response was forthcoming after 40 minutes from the time the President had first been contacted,

the group voted by a large majority to lower the flag and did so. Almost simultaneously, Harold Brown had made a decision to have the flag lowered, and subsequently accepted that it stay down since it had already been lowered. The flag was at half-mast throughout the following day.

Caltech Bestows Five Distinguished Service Awards

The highest honor that the California Institute of Technology can bestow on an alumnus, the Distinguished Service Award, was presented to five men Saturday at the 33rd annual seminar of the Caltech Alumni Association.

Honored for distinguished achievements were Emory L. Ellis, Arthur T. Ippen, Richard H. Jahns, John G. McLean, and Allen E. Puckett, who received silver medals and certificates.

Some 1500 alumni attended the day-long seminar at Caltech, heard lectures by outstanding faculty members and by science fiction writer Ray Bradbury. The alumni were serenaded in the evening at the home concert of the Caltech Glee Club.

Dr. Ellis was honored with an Alumni Distinguished Service Award for contributions in two fields—genetics and rocketry. He pioneered research in a form of virus (bacteriophage) and helped Caltech biologist Max Delbrück start working in this field. Delbrück and two others last year won a Nobel Prize for their phage work, which laid the foundation for molecular genetics and which contributed much knowledge about viruses and viral diseases.

During World War II Dr. Ellis became involved in rocket research

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Just Trucking Along

Glee Clubbers Good Hula'ers

by David Luippold

A typical comment heard after last weekend's annual Glee Club Home Concert in Beckman was given by a Caltech Alumnus on Saturday evening: "It was new, unusual, and very good." It certainly is not every day that one sees the true Hawaiian male hula performed in Southern California, or Hawaiian movies in conjunction with choral singing.

It is to be noted that *Honohano, Hanalei* [Bay], *Beautiful Kahana* [Beach], *Laupahoehoe* [Lava rock coast], and of course the "nation" *Hawaii Pono* itself were represented on the movie screen and on the hula stage as the chorus sang the specific melodies. Every major institution of higher learning has a well-developed choral program and during recent years, the Caltech Glee Club has grown into ever more visible stature.

New Horizons

Though Home Concert was the finale of this year's Glee Club season, the Chamber singers give a

JPL concert on May 21, at 7:30 p.m. Also, the coed choir from the native Hawaiian Kamehameha Schools will be hosted at a Caltech luncheon on June 12. "Kam" was one of the schools where Teachers gave science talks, sang, and partook of the Hawaiian culture.

Large programs are in the making for next year: either New York and the East Coast, or San Francisco will be the theaters of the Spring '71 Tour, with a European Tour for part of the Summer 1971.

During this past Spring in the Hawaiian Islands, it was discovered that the Caltech Glee Club has a unique capability as a touring group. A number of undergraduate and graduate students who had done work in different scientific fields of endeavor gave talks which went over very well. The areas represented were: Astronomy (Dave Shaffer, grad), Math (Tom Noyes, grad, on probability), Kirk Mathews on topology, Dennis McCreary, grad, gave a computer

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Editorial

Peace, Brethren!

In the past few weeks Caltech has maintained a unique position among this country's institutions of higher learning. The students have neither torn down the school, nor sat back calmly. The ivory-tower, "who cares?" attitude that pervaded Tech until recently has been replaced by a healthy sense of dissatisfaction tempered by reason and for the most part directed at the proper authorities.

Incidents such as the half-full flag-raising debate Monday noon now pose a threat to this position. On this occasion students demanded that the flag be lowered to half mast out of respect for the two students slain at Jackson. After waiting almost an hour for an administration decision, the students lowered the flag themselves. The administration's hesitation was by no means meant to be an affront to the students; it had to consider other groups with other opinions.

The crux of the matter, though, is that more than fifty man-hours were spent in the endeavor! Was this act worth it? Did it really help the students at Jackson State — or at Caltech? Not really, or at least not enough. Fifty man-hours spent working on the McGovern Amendment or for George Brown's campaign would have been fifty man-hours better spent. Some argue that the Institute lowers the flag for dead faculty members, but not for student "martyrs." Perhaps the answer would be to honor dead faculty in some other manner, and to leave the flag up except when half-mast is required by law.

If Caltech begins to quibble about such matters, it will not be long before our students will be classed with all the other "firebrand, rock-throwing, irresponsible, hippie, Commie radicals."

—Paul A. Levin
—Ira Moskatel

Throop Beat

Not All Molehills

by Etaoin Schroedlu

Had anyone asked a few years ago whether Caltech would ever be the scene of violence or upset, any informed source would have said, "No way. No way at all." Had the same question been asked even last month, the answer would probably have been to give a zero probability to such undesirable events.

This week, the answer would not be zero.

In the past, had students been questioned on their opinion of the concern and actions of the Caltech administration toward the students and toward the urgent problems of the day, a large majority of those students who would bother to answer would have supported the administration, including the more radical students.

This week, that is not necessarily so.

In the past, many students felt that the student-administration relations and communications channels, if not perfect, were nevertheless sufficiently excellent to be well worthy of commendation in this present-day world.

This week, some of that was lost.

Flagged Down

The issue at stake was, as is often the case, a relatively small one, which was seen as symbolic of larger matters. A number of students felt that the Institute flag should be put at half-mast, in memory of the Jackson State dead. At 12:30 p.m. this Monday, this desire was communicated to President Brown, who sent word that he could not approve of such action over the telephone, but would immediately come over from his home to handle the situation.

At this point, something went wrong. A crowd of roughly 50 students were awaiting Dr. Brown's appearance at the flagpole, and Dr.

Brown was apparently awaiting the arrival of some student representatives in his office. At least one concerned individual managed an appointment with Dr. Brown, but by 1:30 p.m. no official administration decision, or further action, had been reported to the individuals by the flagpole, who thereupon lowered the flag to half-mast without official approval.

The Hair and the Tortoise

It is quite certain that the group by the flagpole wished for Dr. Brown to come out and talk to them. It is not certain why Dr. Brown did not do so. Among the reasons offered are that he 1) was not aware that a public audience was requested, or 2) was too busy to grant one immediately before his scheduled 2:00 p.m. departure from the campus for Washington. At any rate, the assembled students felt, in the words of one, 'snubbed' by the failure of the Administration to communicate with them, and regarded the Institute's failure to pass on a policy decision as playing 'turtle.'

In the eyes of the involved students, the lowering of the flag was not at all an exorbitant demand — in fact, they felt that a policy had already been established, in the case of the lowering of the flag for the Kent State deaths, and that there was no reason at all why a consistent request could not be honored immediately. (As one put it, the relative times spent in mourning the four Kent State dead whites and the two dead Jackson State blacks is perfectly consistent if one remembers the Constitutional clause stating that a black is three-fifths of a man.)

Carpetbagging President

A good deal of resentment was engendered by the inability or

Continued on Page Four

ASCIT Says...

Internships for Techers Proposed

by L. Guibas

One of the ideas that was discussed during the joint session between Trustees, students, and faculty on Monday, May 11, was that of a program of internships in governmental agencies, foundations or the industry for Caltech students and even faculty. It was argued there that Caltech often suffers from lack of information on vital issues. Compared with a big University such as Stanford with flourishing Asian Studies and Political Science departments, Caltech is at quite a disadvantage in getting an insider's view of the war in Vietnam or of how decisions are reached in Washington. Outside speakers are not always the solution, as they can stay on campus only for a short time and then only a small part of the Caltech community gets to speak to them. The suggestion proposed was that of having Caltech "ambassadors" sent to the government in Washington, to foundations, big industries and businesses, to international agencies, etc., and even to Indochina. Those would be students or faculty who would spend a year, or on occasions only the summer, in internship positions, closely observing and participating in the events going on. They would then come back and report to us. They would be an excellent source of concrete information to be available on campus, information that would cut through the vagueness of the average discussion. It would also be a very valuable learning experience for the individuals involved. We have a number of students here at Caltech interested in governmental or public service, for whom this kind of activity would be ideal. True, our ambassadors would also take their prejudices with them, one might argue. One the other hand exactly because we know these people, we also know their predispositions, and therefore we would be able to accordingly interpret their reports.

The Trustees were asked to support this plan both in terms of contacts many of them have and in terms of financial aid. A few of them

reacted very favorably. Dr. A. Beckman has invited four local Trustees to serve on an ad-hoc committee to seek ways for more constructive student involvement in the political arena. One of their main items for discussion should be this program. President Harold Brown himself supports the idea. A whole register of Caltech Alumni, Trustees, Associates and others who have relevant contacts is presently being compiled. We have contacts with the Defense, State, Interior, Transportation and HEW Departments. Also with the Carnegie, Ford, Rockefeller, Sloan and National Science Foundations. President Brown personally knows many Congressmen. As far as the industry is concerned we have excellent connections through our Board of Trustees. The World Bank is another possibility.

Now very few of these agencies have any already established student internship programs which we could use. For the most part the initiative will have to come from the student who is interested in a specific position in a specific industry. It is essential that the student be there in some interactive participatory capacity and not simply as an observer. Some of the above agencies may of course feel that a Caltech student cannot be useful to them in any way, or that it would be too costly or time-consuming for them to educate him appropriately. But others may think that they will have a lot to gain by originality of viewpoint which students can bring into their operation. In the majority of cases one year would be the usual duration of service. A shorter time is often not sufficient. Thus students participating in this program might need one additional year to graduate. The question of the draft status of the student during his period of internship is also open to discussion. But, granting all the difficulties, the Caltech student who desires, beyond a scientific education, a first-hand experience of the way the government or foundations or industries operate would greatly benefit by participating in this program. He might be the person, so

much in need nowadays, who is ideally educated to defend the cause of science in the eyes of the public and the Administration.

Such internships could indeed start next fall. Some may be even available for this summer. I would like to call a meeting of all interested students early next week to discuss what further steps need to be taken on our part as well as locate where specifically interest exists. All interested please contact Leonidas Guibas, Ruddock House, ext. 2155.

INTER-ALLEY VOLLEYBALL?

Organized inter-alley volleyball invaded the bounds of Page House last month. Following an alley challenge in that sport on April 19 between "The City" and "The Cockpit," led by Dana Powers and Gary Stormo, respectively, the two UCC's suggested the activity. Due to the timely installment of courtyard lights and the cool weather, the project received the support of the house. On April 27, the round-robin, best-of-five series became a part of reality, and since then the contests have continued on week nights.

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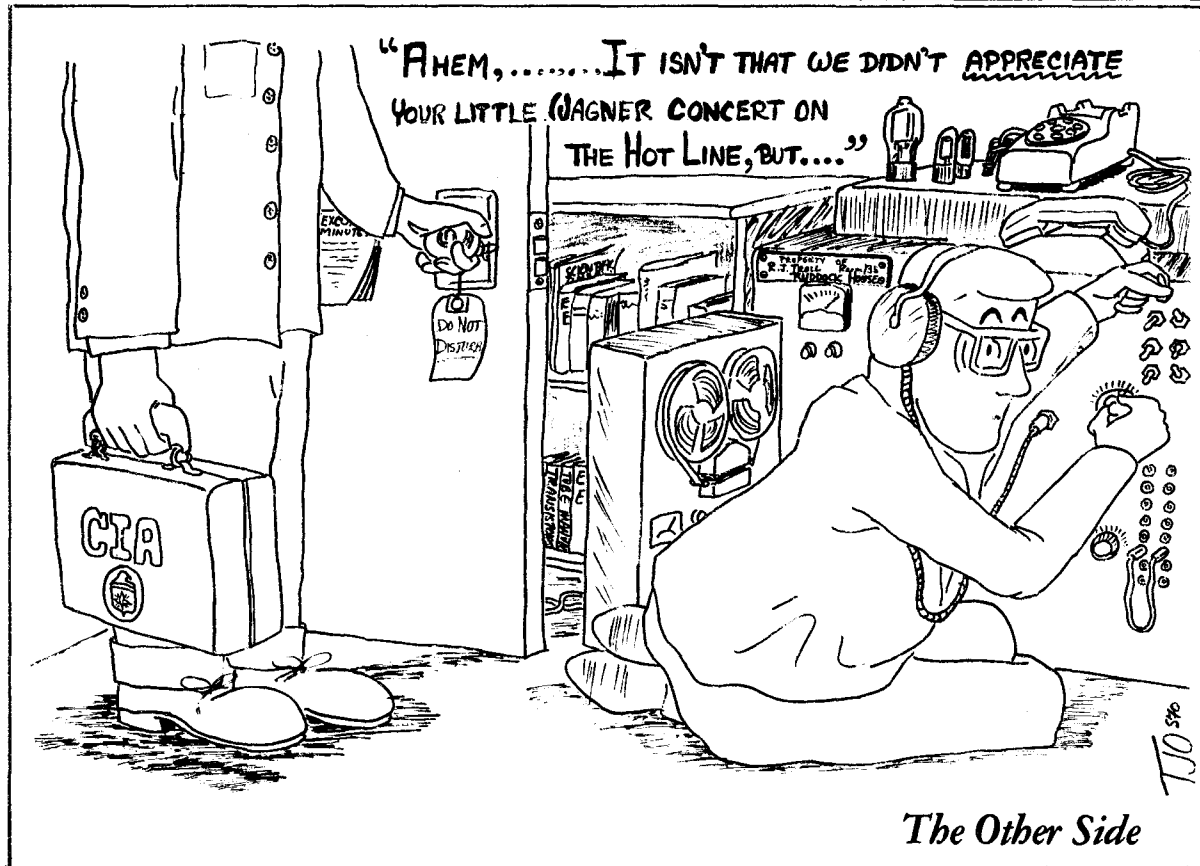
FRANKLY SPEAKING

by Phil Frank



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The Other Side

Jester Rolls On...

File No. OD 14623 dp-992-cXj

by David Miller

A number of interesting things happened because of the flight of the robot. The sale of Marvel Comics went up; President Nixon had to send telegrams to a lot of countries which were convinced that the CIA or the State Department was behind the affair. The telegrams said something like, "Has either agency ever before shown a hint of having this much imagination?" (Farkle's Law of the Conservation of Psychosocial Entropy shows that the State Department must be capable only of amazing inaction. More about this notable discovery will doubtless appear if I ever get around to reading the *Peter Principle*). And a number of imitation jesters appeared, and soon disappeared when their jokes didn't work.

Meanwhile, the State Department discovered that Jerome Edward Sterns could have his name shortened to J.E.STERNS. He came to their attention because he disappeared in Russia, having never existed in America, carrying an American passport with an impossible serial number. The affair was judged to be an ominous development and was filed as OD 14623dp-992-cXj, in the Ominous Developments Room.

Cuban Self-Information

Late in the summer of 1970 Cubans who had told each other that the Jester's robot proved that the capitalist society was losing its mind welcomed Arkady Romanovitch Vrazumihin to the Ministry of Agriculture, where he explained his mission in garbled Spanish which your dauntless chronicler translates to garbled English, as "Allow me to introducink latest inwanton of Rossian technical genios, is atomic-powered laser sugarcane cutter, those Amerikanskis got nawthink to compare, goink to be blue with

anvy." He talked a long time, and held up charts which showed how much faster and cheaper the sugarcane could be cut, and how the little atomic batteries would last for twenty years: "is copy of Amerikanski Watherburo autometric Nautpole monitor bettery." No one else could get a word in.

He finished up about 5:30 in the afternoon, much too late for a field demonstration, so the Ministry officials insisted on having it early the next morning. But they must join him for dinner, Arkady Rodionovitch insisted, what a shame that the fabled nightlife of Havana had been sacrificed to Socialist seriousness. In Russia they knew that "all work and no play means you never get to be a big shot, you got to play when the current big shots want to have fun." Taking this as a veiled (more or less) hint the Cubans did what they could, and were rewarded by an endless stream of compliments on the glories of Cuban food, Cuban girls, and Cuban rum, the last of which was consumed in amazing quantities by their guest.

Is Good For Castro

Arkady drunk talked as much as Arkady sober, but he soon lapsed into some language which was neither Russian nor Spanish. When they asked him, he managed to pull himself together enough to explain that this was the dialect of Lower Uzbekistan, where he had been born. "Ah, yas, I remember it wahl, we played the zungkshtra, like the balalaika bot tuned occarding to muzghaz scale, beautiful scale, notes are called zoaj, kleeg, voong, vsa, yhorg, ghrang, thlahl, hlagiron-da, slakt, vlnch, ytrosch, flgin, nyarch." Then he launched into an old song of stirring rhythm and alien, but martial tune, which may have been an epic about the hero Tyarnassik, who fought the Huns or

somebody a very long time ago: "Nya vr hlenkra/Kras shtarliogzt gor lidarkinnak stelsn/Gldrechky pt obliton..."

And in the morning he opened eyes red as cake coloring at his hosts and told them that if his head fell off or he were left alone for at least seventeen hours, he would be all right, but meanwhile he wished he was back in Moldrotsky concentration camp where all he did was freeze, instead of suffering these tortures... vodka was the thing for good health, pure alcohol and water...to think he had begged the commissar for this job...

And Other Trivia

Arkady was not with them when they discovered why Americans don't use laser sugarcane cutters. A laser cuts things by vaporizing the material in the path of the beam, of course. The water content of sugarcane stalks is enormous. An improperly focused or too diffuse beam will vaporize the water long before it affects the woody fibers. Therefore, field-testing the sugarcane cutter produced twelve square feet of neatly cut cane, one

Continued on Page Eight

The Third Wing

Points of View



The past week in this nation was the sort during which the end of the world would have been applauded. The closest thing to good news was a total standstill in San Diego.

The number shot down in the street by law enforcers went up instead of down. Three dead at Jackson State, and six more in Augusta, the latter all shot in the back. Police at Jackson State had even less provocation than the Kent State killers, since there had been no riots at Jackson, no buildings burned, only a peaceful demonstration against discrimination at a bowling alley next to the campus. The police said that they heard snipers, but no guns have been found, as one would expect. Why would the students shoot over a bowling alley? It is reminiscent of Arlo Guthrie's littering arrest, where his belt was taken to prevent him from hanging himself to escape punishment.

Horrendous caches of arms were found on the Kent State campus after all of the students were evacuated. They actually found many knives, some of them switchblades up to 10 inches long. (One wonders if that one wasn't a straight razor.) A grand total of three machetes were found, along with a number of BB and pellet pistols, and one light shotgun. Those kids couldn't have sniped at anything larger than a skeet. This only leaves the question of why all of these things were left when the school closed for the year.

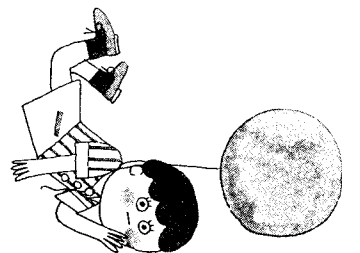
The situation in Indochina is now so confused that troops of any nation may be fighting anywhere. South Vietnamese troops (with American Advisors) are fighting in Laos, hopefully against the North Vietnamese (with Chinese Advisors) who are aiding the Pathet Lao against the Royal Laotian Army. Got that so far? It gets worse. If you read closely the statements made, no one has promised that the South Vietnamese troops will be out of Cambodia at the same time as the Americans. Nixon still says that the whole operation will end before the end of next month, but military men are very dubious about the whole thing. Only 30% of the goals have been accomplished so far, and stiffening resistance is being met, to the extent of the Communists capturing the

third largest city in Cambodia. Also, there are other problems, such as what to do with the supplies being found in Cambodia. The army frowns on using guns and ammunition captured from the enemy, and much of it is useless anyway. The 3200 tons of rice are another problem altogether. It has to be moved and distributed to impoverished people from whom it can't be recaptured by the Communists, which means most of California will be eating rice for awhile.

Strikes are rampant in the country, with San Diego the most pitiable example. The area has been hit with losses of jobs for two years, and now, everyone's city and county contracts are up for renewal at once. Since the city doesn't have more money to offer, strikes occurred. The bus drivers, trash and garbage workers, and firemen are out already. The police and sheriff's deputies are handling only major crimes in a work slowdown. The social workers demonstrated this week. Goods are arriving by train only, since the truckers are on strike. All they need now is a flood.

Last, but unfortunately not least, we come to the Vice President. On national radio this past weekend, Spiro said that he doubted that the recent demonstrations indicated any "deep-seated student hostility" to President Nixon's Cambodian policy. Mr. Agnew also said that he thought that many of the students demonstrating were merely out "on a spring lark," and not serious. Later, Senator Fulbright was kind in saying that Mr. Agnew suffered from political myopia. Someone less kind might have said that Agnew is a damned bloody fool, and that the last thing we need is a Marie Antoinette for Vice President during a time of national crisis.

--Nick Smith



Yudelson On Proposition Seven

Continued from Page One

enrichment of corporate land holders.

Proposition 7 would perpetuate the use of obsolete "dam and ditch" water supply technology. There is no water crisis in Southern California. However, there is a managerial and institutional crisis in the Metropolitan Water District of Southern California (MWD) and the State Department of Water Resources (DWR), which are programmed and staffed for water-import engineering, self-isolated from the more economical modern water supply technologies of wastewater reclamation, desalination, groundwater management, and water-saving irrigation techniques.

For example, less than 1% of the water used annually in California is recycled. The DWR claims, to justify its "dam and ditch" engineering policy, that Californians will not really accept re-used water for another twenty years. Yet, the advanced waste treatment facilities at Santee in San Diego County has enjoyed remarkably favorable public acceptance. Fishing and swimming

now, quality up to drinking water standards within two years—Santee is the way of the future.

Finally, Proposition 7 poses extreme dangers of environmental destruction in California. Bringing Northern California river water to Southern California without reconsideration of the State Water Project's basic assumptions will only serve to worsen two of our overwhelming environmental problems here—the proliferation of cheap real-estate developments, planless except for the plan to make a fast buck, and the pollution of our public waterways, harbors and ocean that is encouraged, even inevitable, in the promise of endless water, cheaper than the cost of re-use to industrial and agricultural users under MWD's taxpayer subsidy pricing policies.

"In disregard of the laws of nature and of economics, we have treated our environment as an inexhaustible resource that could be converted, ravaged or destroyed at whim. Locked into a dam-building technology as outmoded as the army mule, we are systematically despoiling our remaining environ-

mental oases that have thus far escaped the dual destructive swath of an unchecked bureaucracy coupled with an engineering ideal." (Lou Cannon, *San Jose Mercury*)

Basically, the case against Proposition 7 may be summed up as follows: The voters should not be forced to make a single decision on financing bonds for widely varying purposes. Good bonds are being held hostage to the unworthy State Water Project bonds. The various issues deserve to be considered separately on their individual merits. A "NO ON 7" vote provides an opportunity to consider each of these measures individually on the November ballot and spares us the disastrous economic and environmental effects of Proposition 7.

The "NO ON 7" campaign needs workers desperately. If you want to help, contact Jerry Yudelson at the Caltech Environmental Action Council office (ext. 2481), or call 796-7545.



ASCIT presents:

The Sand Pebbles

Steve McQueen

Candice Bergen

CULBERTSON HALL
FRIDAY, MAY 29
7:30 P.M. and 11:00 P.M.
WIDE-SCREEN

No Longer Mainstream**Lloyd Moves With Times**

by Richard Strelitz

Charles Lloyd is primarily a composer, as opposed to a musician who happens to perform his own

Throop Beat

Continued from Page Two

unwillingness of President Brown to make contact. In fact, many people believe that it is time that Dr. Brown spend more time in Pasadena and less time in Washington or Helsinki or Austria or wherever. Organizations being what they are, it is very difficult for subordinates to take strong action, or any action at all, in the absence of the Head Man, and our Head Man is absent far too much. Certainly Dr. Christy could not have enjoyed the situation in which he was placed, trying to talk to the students in the absence of his superior, or any clearly coherent Institute policy, and his post-flag-lowering conversation with the students outside Throop Hall did not seem to produce significant positive results. The fact is that damage had been done.

Dr. Christy made one very good point, that no large, official Institute action could be taken on the basis of a rally of some 50 to 70 members of the Caltech community, and that more general support had to be shown for any strong public statements which the Institute might be expected to make. I grant this: I know that it is highly likely that there are 50-70 individuals here who could come up with some idea which I consider wrong, and if a rally were sufficient cause for Tech to express that opinion publicly, I would be highly upset. Nevertheless, any group of 50 Techers should be able to get an audience with the President, when he is in his office, or at least not be given a badly-done run-around.

Round the Mulberry-Bush

What happens now? Has the administration hurt itself? In the eyes of the people present Monday afternoon, I think it has very definitely hurt itself, and in the absence of any concrete policy declarations I think it highly likely that the administration has not helped itself anywhere else. How severe is the damage; will real riots follow? I do not think so. At any rate, President Brown could fix things up tomorrow. But he can't do it from Washington, or anywhere else but here, and he can't do it by playing turtle.

I sincerely hope no real riots occur here. I detest violence and polarization and lack of communication and all the other things which are involved. I am upset by the action of lowering the flag, even, since it is to the best of my knowledge the first time students here have felt a need to take things into their own hands. Let us not let this trend continue any further.

material. This is not to say that he is a poor player, for he is most assuredly not, but it is true that his style is not as individual as Ornette Coleman, Roland Kirk, or Miles Davis.

As far as I know, Lloyd first came to prominence as the musical director of the Chico Hamilton Quintet. In this capacity he demonstrated his understanding and appreciation of mainstream jazz for which he won wide acclaim.

But Charles Lloyd is no longer mainstream. He has moved with the times.

The most popular tune in his folio is "Forest Flower" which appears in four forms which very neatly illustrates the odyssey of his mind. In its original form, from *The Best of Chico Hamilton* "Impulse," the piece is a very smooth, very sweet (not saccharine), not too emotional work. I like it very much.

Two or three years later, in "Forest Flower," recorded live at the Monterrey Jazz Festival in 1967, on Atlantic, the piece has been extended to allow time for solos and further exploration of the themes presented. Two years later the piece appears again, as "Forest Flower '69," on the Atlantic album *Soundtrack*. There is less concern with melody and more desire to personally make a commitment in their music.

In short, Lloyd has been moving towards a more personal music, a more emotional music; he has, on occasion, tried to reach down to the levels of rock audiences, and, in my opinion, failed miserably and debased himself and his art. However, one drift is clear: Lloyd, like Coltrane before him, is trying to reach a deeper beauty than he had. He is more concerned with spiritual beauty, an aesthetic that goes beyond merely pleasant or nice sounds, an aesthetic that runs the gamut from ecstasy to suffering. His music is concerned with the beauty of the human condition, where a shriek or a wail has as much meaning as an interesting chord. In the new jazz, even ugliness and harshness are beautiful, and Lloyd realizes this.

If you go Friday, and I urge that you do, you may be offended by some atonalities and non-melodic content, but you owe it to yourself to listen. Very few of you have ever heard any jazz live, or even by live performers, and you should at least give it a listen. In 1966, I saw Charles Lloyd in Central Park. I walked out impressed, but my date, who had never heard jazz before had to be carried out. She was that overwhelmed. Go and see for yourself.

More Than A Crystal**Radio Is Not Dead Yet**

by Nick Smith

People in the more radio-proof houses may not realize it but there is significant AM radio in this area. This isn't just a random listing, but an attempt to tell you faithful readers about some of the ones which can be picked up here.

Starting off the dial at 570, is KLAC, a Metromedia network station. Their current musical policy is sort of chicken-rock, but it changes from day to day, along with the station managers. Les Crane is on some part of the day, but even he can't help.

KFI, at 640, has the strongest legal signal on the band. They concentrate on having personalities as DJs, and thus have Dave Hull (ex-KRLA rock DJ) and Lohman and Barkley, sort of

a radio Rowan and Martin. Music ranges from Beatles to Benny Goodman. They also broadcast Dodger games and USC sports.

KMPC, home of Gary Owens and Geoff Edwards, plays light pop and rock most of the time. This station, at 710 on the dial, is owned by Gene Autry, and thus broadcasts Angels baseball. In addition, they broadcast Rams football and UCLA sports, as well as constant traffic reports.

KABC is the two-way radio station locally, and they do get some weirdos calling sometimes. 790 is the frequency, and the best time is just before lunch, when Michael Jackson is the moderator. Laker games in season.

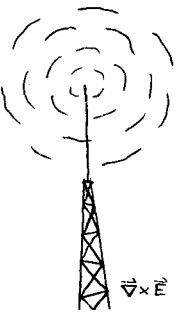
KHJ, at 930, is the top-30 rock

station in the basin. Self-proclaimed boss radio actually has some good moments, and on the weekends you can hear all of those old hits of the early and middle sixties that you loved.

KGBS is at 1020, and is sort of a rock station. They somehow managed to get Bob (Emperor) Hudson, whom some of you may remember as broadcasting from a leopard-skin control room at KRLA in the early sixties. Otherwise, the station is random.

KNX, at 1070, is all news.

KRLA, at 1110, is probably the best rock AM station in the area. Lots of album cuts at night, and special features on Sunday. Credibility Gap news most hours at the half.

Frets And Fraiks**Ice House Features Nesmith And Band**

This is one of those shows that includes something for almost everyone, at the Ice House this week, from country and folk to near rock.

The show opens with Jo Ellen, who has appeared here a few times before. She sings some songs written by herself, and some by others. She sings and plays guitar with a real flair, and is the same type of singer as Judy Collins, although not quite as good yet. She does especially good things to Gordon Lightfoot's "Wherefore and Why," which is one of my favorite songs. JO Ellen would be worth going to see even if there were no one else on the bill, but there is, and so, onwar.

Dunn & McCashen

Dunn & McCashen have been around the Los Angeles scene off and on for a while, and have produced one album, which I believe is called *Mobius*. They write at least most of their own material, and they are good songwriters. Their best songs are probably "Lydia Purple" and "Hitchcock Railway," both on *Mobius*. They are working on another album, but I have no idea what is on it. At any rate, Dunn & McCashen are sort of a folk-rock duo, but that is not a good description. They are hard to describe, but they are good.

Jud Strunk (yes, that's a real name) was there as a guest act, and he was quite good. He is a humorist and poet and banjo player from Maine, and I was pleasantly surprised to find his poetry and humor quite good. One doesn't expect to enjoy someone called Jud Strunk. He has an album out, entitled "Downeast Viewpoint," and now I want to hear it.

Star Act

The star act at the Ice House this week is Mike Nesmith and the First National Band. Mike Nesmith writes most of the band's material, as well as playing electric guitar and doing the vocals. He does not, however, hog the act, which includes Red Rhodes on pedal steel guitar, John London on bass, and Johnny Weir on drums. Red Rhodes does amazing things with his instrument. The image I formed was one of sort of a middle aged country-western pedal steel equivalent of B.B. King. Mike and the Band did some of Mike Nesmith's older songs, which allowed some comparison. "Different Drum" and "Listen to the Band" show that Mike Nesmith has found his musical style, and it's a good one. Those of

you who were turned off by the Monkees should take a listen at the new Mike. It's definitely a different drum, so listen to the Band.

-Nick Smith

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Hope Springs Eternal

Rod Stewart Resurfaces

by Richard Strelitz

Several months ago, I found the Rod Stewart Album and liked it very much; partly for the vocals, and more importantly, for the instrumentals. I have rarely heard such a tough, hard rocking little band. I was sure that I would never see them again.

Two months ago, I saw two of the Rod Stewart faces resurface under the aegis of a group called Steamhammer. I glanced into my wallet, saw the requisite three dollars, grabbed the album, and prayed all the way home.

On the jacket, the anonymous flack writing the notes says that Steamhammer was just another british blues band, but they had ambition. But the skies brightened. Yes, Martun Quittenton plays finger style guitar (he flat picks, like a classicist) and listens to jazz.

Hope springs eternal in the human breast, and despite the small size of my breast, there was much hope. For in addition to that, several other familiar faces appeared on the album—Harold McNair on flute and Pete Sears on piano (McNair is responsible for all the flute and sax on Donovan's stuff-oh).

By now I have you all in my power, because if you've read this far, you ain't gonna stop, and if you haven't, this all doesn't really matter, now does it? Well, to end your suspense, the album is better than I dared hope. Random selection picks another winner.

The rhythm section is the equal in precision and taste of the big names, and the material is excellently chosen and done. It is very obvious that they have thought about each number on the album for there is a variety and precision that indicate real craftsmanship. The vocals are similar to the style of Ian Anderson, a deep crafty sound, and capable of expression. I like them.

But the best part is the guitars. Martin Pugh, on lead, has learned how to burn, how to cut through your ears like a knife. He has a sharp stinging attack to his playing that is more than just contemporary

Clapton. He has listened to Jeff Beck and can really wail. But, in these crowded days, that is not enough. One must have more than taste and skill these days. One must have a gimmick. Martin Quittenton comes in. For, in his position as rhythm guitarist, he is not just chording behind Pugh's attack, he is playing a counterpoint melody. He is playing a real guitar, and playing it well. He is one of the few thym guitarists to be fully as interesting as the lead. That is what you are hearing on these cuts, two horses in tandem, pulling a sterling chariot. The studio sidemen, McNair and Sears, do their bit to really make this extraordinary, but it is the work of the guitarists that make this album almost a classic. Listen especially to "Even the Clock" and "Twenty Four Hours" on their Epic album, *Reflection*.

If you haven't heard Maggie Bell and Stone the Crows, then have your hormones checked. I'm not saying that you must buy the album, but at least give this piece a chance.

Hype is generally enough to make me avoid buying an album, because a group that is given a big push usually needs the hype in the absence of ability to stimulate sales (see especially MC-5, Stooges). However, sometimes what we see as hype is just a publicity campaign that has grown out of control because the publicity department is not too bright. Last month RCA started pushing a group called Forever More, another British four-some. I heard one cut, and as the Crystals said, (in "And Then He Kissed Me"), I thought I might take a chance. So I did and what the group is is a competent band doing material similar to *Sergeant Pepper*. This is a nice place to be, and because they lack pretension, they are quite pleasant. At the lowest points on the album, they are pleasant. At the highest, they are very good, but on the whole, the album is merely interesting. It is superior, but ultimately, it goes nowhere. If you want to take a chance, go ahead, but until then, wait for the next one, because there is talent in the group.

Warning of the week—Ginger Baker's *Air Force* is terrible, unless you want to hear just another "Toad."



OLAF FRODSHAM acknowledges applause following a number at the Annual Glee Club Home Concert in held in Beckman on Friday and Saturday. "Some of the girls" whom the Glee Clubbers met in Hawaii gave memorial leis (?) for this occasion.

Hawaii Strikes Back

Continued from Page One

demonstration, Chemistry (Dan Reichel on touchy reactions, and David Luippold on light in isotope

detection), and Physics (Ron Lipinski gave a laser and hologram demonstration, with Mike Steinberger and Dave Wellman giving a show on angular momentum).

A large segment of the Caltech Community participated in these activities. Dr. Richard A. Blade, visiting Associate from the University of Colorado, was a boundless source of ideas, and he obtained for us a 9100A Computer from a helpful connection at Hewlett Packard. Dr. Floyd Humphrey, of Electrical Engineering, loaned a laser and holograms. Dr. Blade and Professor Jurg Waser in Chemistry reviewed the talks before and science talk - concert day at Polytechnic Preparatory Schools. A former Glee Club Alumnus, Dr. Thomas T. Bopp, of the University of Hawaii (Department of Chemistry) arranged for the angular momentum apparatus and chemicals to be available on the island of Oahu.

The response was very enthusiastic: At Iolani School, where many of the preparations for Oahu were made in advance, science talkers were made to talk themselves hoarse. At Punahou Prep School, there was pressure to institute some of the "newly-found" scientific subjects such as topology, and aspects of other sciences which had not previously been presented in the curriculum. Kamehameha Schools included their comment on the Scientific Aspect in the general atmosphere which Caltech created, in the following letter to President Brown:

Dear Dr. Brown:

Recently we were visited by your "Singing Scientists," the men of the Caltech Glee Club. I write to let you know of their significant contributions to our school life. Students here were inspired by the marvelous singing and enthralled with the brilliantly presented science demonstrations of Caltech Glee Club members.

A glance at the enclosed copy of a review of one concert will indicate why our students were so taken with the music. Our student body is comprised of Hawaiian and part-Hawaiian young men and women. Of course, in this context Hawaiian traditions abound. Not only did the Caltech Glee Club sing Hawaiian numbers; they did so with such style, such attention to the nuance of words and musical phrase that our students responded with warm enthusiasm and respect.

Prior to the general assemblies, the Caltech students presented science demonstrations for our science department. Mr. Verne Bixby, Science Department Coordinator, commented on how impressed our students and staff were. "It helped the tone of the entire department," he remarked. The Caltechers were well prepared and organized. In addition to the ideas they expressed, they brought an enthusiasm towards science that was contagious. "We would like to have them back!" Mr. Bixby emphatically states.

The whole day was a rare treat for us. Please know that we are grateful to you and to Mr. Olaf Frodsham for this display of the blending of two cultures: artistic and scientific. We are a better school for having had the experience.

Yours very truly,
Mrs. Gladys A. Brandt
Director, High School
The Kamehameha Schools

One-Man Band McCartney Is Still Good Bass

McCartney; "Instruments and voices by Paul. Photos and harmonies by Linda." Apple STAO 3363.

I'm almost afraid to say it, but I like this album. From what I hear, nearly every review of it dumps on it pretty thoroughly. But I haven't read any reviews; I've just heard the album. So I still like it. With Johnny Lennon's recent excursion out of the Beatles with his Plastic Ono Band still ringing in my ears, I was Leary of a McCartney one-man-band album. Evidently he decided that since he was playing bass and piano simultaneously already on the Beatles' albums, he might as well add guitars and drums and play with himself, so to speak.

We all know Paul is a wizard electric bass player; if we don't know it, then we should listen to Momma Miss America, by itself two of the best instrumentals on the album. But on a couple of cuts, most notably Kreen-Akore, he does incredibly well as lead guitarist. Strangely enough, tho, he sounds amazingly like Lennon. But that ain't so bad. On drums, well, he's still about four albums behind Ringo. The album is like a great many first albums in that it is a testing of many styles and techniques. Side One alone has eight cuts. Style ranges from Teddy Boy, another Maxwell's Hammer, to singing wine glasses Glasses, and some impressive instrumentals. The album is a tribute to modern recording techniques, and to the musical genius of P. McCartney. Oh, by the way. If anyone psyches out what the cover means, please tell me.

—B.A.

Let Beatles "Let It Be"

by Alan Lederman

I can best describe *Let It Be* by stating the Beatles have made three films but only two movies. For *Let It Be* is not a movie as such; it has no dialogue, nor plot, nor action, nor suspense, nor conflict. The director has perfunctorily placed his camera in the Beatle's Apple Recording Studio and allowed it to ramble. The loss of Richard Lester's expert direction seems to have proven debilitating.

For the true Beatle devotee, such a pseudo-documentary may prove satisfactory; the audile pleasures may justify the price of admission. But for this reviewer, the tedium of a single scene is unjustified. The Beatles are personable, but greater imagination and technical expertise would have been needed to make this film truly worthwhile entertainment.

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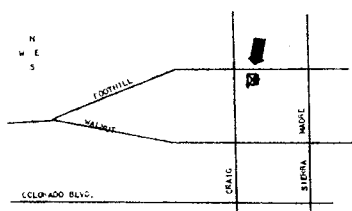
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Dunn & McCashen
Jo Ellen
MAY 26-31
Tim Morgon
Bill Morrison
Walt Comley

Five Caltech Alumni Cited For Distinguished Service

Continued from Page One

at Caltech and subsequently at the U.S. Naval Ordnance Test Station at China Lake, where he headed rocket work. Later he worked for the Insitute for Defense Analyses and then as director of Caltech's Industrial Associates.

Dr. Ellis got his BS, MS, and PhD degrees at Caltech, the first two in chemistry and the PhD in biology.

Dr. Ippen was honored for his many activities in civil engineering. For years he has served as consultant on design problems for dams, drydocks, harbors and hydraulic machinery. He is Ford professor of civil engineering at M.I.T. and director of its hydrodynamics laboratory. He was instrumental in organizing the Latin American section of the International Association for Hydraulic Engineers. He has held numerous offices in professional societies and has been the recipient of many honors.

Dr. Ippen, who recieved his PhD in chemical engineering from Caltech in 1936, was a teaching and research fellow in hydraulics at Caltech from 1934 to 1937.

Dr. Jahns, dean of the school of mineral sciences at Stanford University, is the author of 80 scientific papaer and edited the definitive volume on the geology of Southern California issued by the California Division of Mines and Geology. He has been chairman of a committee on geologic hazards in the state, was chairman of the division of earth sciences at Pennsylvania State University, and senior geologist with the U.S. Geological Survey.

Poetry For One Dollar Worth One Dollar

by Alan Lederman

During a recent visit to San Francisco, your ubiquitous Features Person happened by Ferlinghetti's *City Lights Book Store*. As he was conversing with the store cashier, an obviously indigent black man approached. They spoke of Pasadena, his home town, McKinley High School, his alma mater, and San Francisco, a city he was finding a difficult place indeed. He had found a female companion who wished to marry him, but his financial state made this impossible. He brooded about this consistently. He then offered to sell to the *California Tech* original publishing rights to a poem, at a cost of one dollar. Your editor accepted the offer, and presents as his gift to Caltech:

GOOD BOY

By Solomon Horsefeather

I look up at this
Frosting coloured
Steeple and God
Said
Gimme a bite of
That wedding cake

It was today

I said God
I love you at the risk
Of becoming
Skinny

Then my girl friend
Said
I'll be your girl friend
I'm capable of
Every lovely immortality
I said
OK

Dr. Jahns, on the Caltech faculty from 1946 to 1960, got his BS and PhD at Caltech.

Dr. McLean, president and chief executive officer of the Continental Oil Company, was a member of the Harvard Business School faculty for 14 years and has served as a consultant of business and industry. He is co-author of the book, *Growth of Integrated Oil Companies*, and has contributed to other volumes.

Dr. McLean obtained his MS and PhD from Harvard Business School after earning his BS in physics at Caltech.

Dr. Puckett, executive vice president and assistant general manager of the Hughes Aircraft Company, has been active in research and development in aerodynamics for more than 20 years. He is the author of numerous papers on high-speed aerodynamics and guided missiles. He is a member of the National Academy of Engineering.

He received his PhD in aeronautics from Caltech in 1949.

Caltech established its distinguished service awards for alumni in 1966. This year's awards bring the number of recipients to 38. They were chosen by a committee composed of Caltech trustees, administrators, faculty members and alumni.

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Guibas Writes

Individual Consideration Key Solution

by Leonidas Guibas

Recently two petitions have been circulating on campus, one supporting, the other opposing the proposed calendar revision. One segment of students and faculty feels that they should have the opportunity to campaign for their favorite political candidates or otherwise engage in political activity during the two weeks before congressional elections next fall. They feel that academic work during this period is inconsistent with the time and emotional involvement required by political activity. Consequently they recommend that the Institute, in recognition of the public value of their work, suspend classes during those two weeks so as to provide them with this opportunity.

Another segment of students and faculty regards such political involvement as inappropriate. It is not the business of an academic institution like Caltech, they argue, to take political actions. Even others view such activities as unnecessary or useless. But all of them see their rights to learn and teach as being intruded upon by those who recommend suspension of academic activity.

Here is a clear case of conflict. Different individuals, the one no less honest to himself about his public responsibilities than the

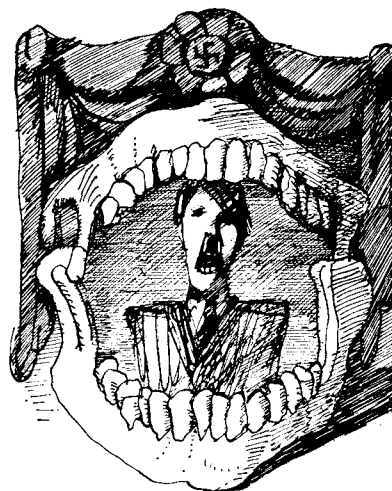
other, have come to different conclusions. The issue involved is a fundamental one of academic policy. Under what conditions does a University have the responsibility to take a political stand? The faculty should discuss this question as it is ever more likely to come up in the future again and again.

Let us realize that the requests of both sides, were they to be adopted as official Institute policy, are irreconcilable. Someone's toes are being stepped on. Political activity is hindered by academics or vice versa. Total inaction as well as simple cancellation of classes for two weeks are bad alternatives. We do not need to accentuate the differences of opinion and increase the polarization within our own campus. Neither do we need to prostitute our academic freedom or fail to meet our responsibilities as individual citizens.

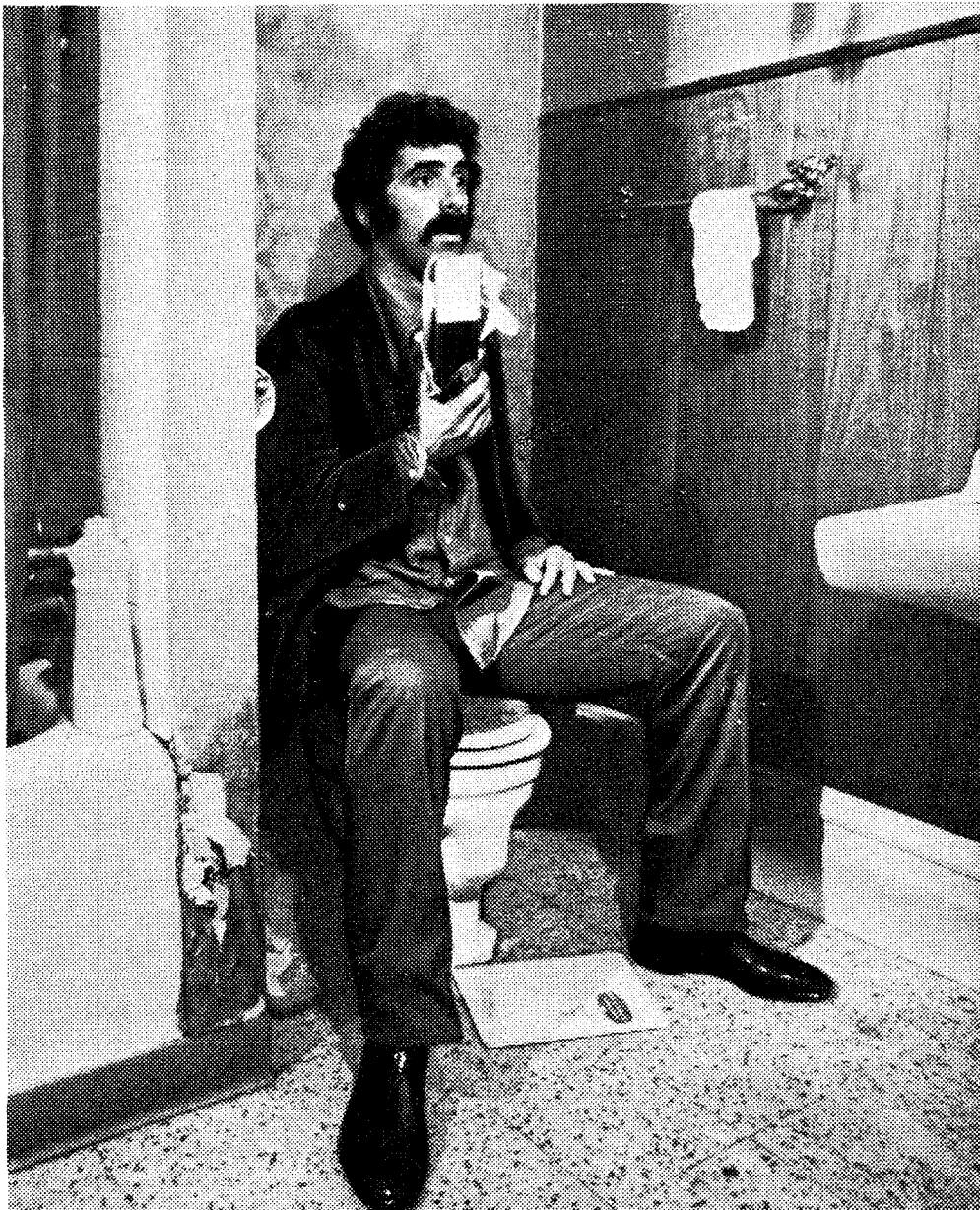
Let me propose another alternative. We could encourage individual consideration and decision for action on the issues involved. We could provide for a system under which no one will be unduly penalized for acting either way. Most important, if a faculty member decides that his responsibilities as a citizen demand that he be involved in the political arena rather than attend to his teaching duties during the pre-election period, he ought to have

the courage to tell his students face to face of his decision. Similarly a student should face up to his instructors and inform them of what his conscience dictates. Hiding personal decisions under the veil of higher authority is only a means of escape.

Let us then take stands individually when we cannot achieve a consensus collectively. Heavy strain is going to be placed on our academic system during that time. But the difficulties need not be insurmountable if we are willing to retain proper respect for each others opinions. Above all we would be honest to ourselves, in acting not as others told us but as we thought appropriate.



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NEWS BRIEFS. . .

Continued from Page One
Culture." Approximately \$200 to see me through summer. Sponsor specify reasonable conditions. Interested contact: Cheng Shang Hea, Ricketts Lounge.

YMCA Auctions Off Lost and Unclaimed
has been received this year. Only articles received before May 16 will be auctioned off.

SKY-DIVING NEXT TUESDAY
Next Tuesday night, May 26, 1970, a movie on sky-diving will be shown in Winnett Lounge at 7:30 p.m. Also included with the showing will be talks and experiences upon sky-diving by Barry Latsinger, President of the Southern California Sport Parachuting Council. Refreshments will be served. ASCIT sponsored.

Notes and Comments Department Department
We sneaked (snuck) a look at the interest and activities sheets submitted by the frosh (and fresh-

women) to-be. The qualifications are as impressive as any we've seen. This aging editor (guess who) is ecstatic over the sight of two outgoing seniors who were editors of their school rags. A third was an editorial writer and 16 have had experience on high school papers. Four out of the 31 girls expressed interest in working on the *Tech*. Only two had prior experience . . .

Four law students at the University of California demanded yesterday in a Federal court suit that President Nixon be ordered to stop sending American troops into Cambodia. They charge that sending troops to Cambodia is a direct violation of the Constitution and of the United Nations Charter. They hope to extend their suit to 10,000 plaintiffs by writing law students all over the country.

Dr. Smith (David) is reminding everyone of the exhibit of art from the collection of Thomas Terbell and his family. Works of Roy Lichtenstein, Andy Warhol, Robert Irwin, Jasper Johns, Donald Judd, Craig Kauffman and Ed Ruscha will be shown. The exhibit closes May 28.

Letter

DRAFT OPPOSITION

For too long people throughout the country who oppose the draft have been working apart and isolated from one another. This has limited their effectiveness. Finally, after years of disunity, an organization has been formed to bring these people together. I am interested in getting Caltech students who are opposed to the draft together to plan out meaningful, effective activities we can carry out against the present system of induction in conjunction with the Union for National Draft Opposition (UNDO). I have already received from UNDO a list of legal, non-violent ideas. I have been in contact with Occidental and I have planned a joint meeting there this Tuesday evening. I would like to meet with interested Caltech students this Friday afternoon at 4:00 p.m. in the YMCA lounge. If you can't make it, just sign up on the sheet under 'draft opposition' on the bulletin board outside the YMCA office.

-Dennis Dibartolomeo

The California Tech

Classified Ads

TRAVEL

EUROPE-ISRAEL Travel Discounts available to holders of international student I.D. cards. For info. regarding travel discounts and purchase of card, contact: International Student Club of America, 11687 San Vicente Blvd., Suite No. 4, Los Angeles, Cal. 90049. Telephone: 213-826-5669.

HELP! We have too many girls!
EUROPEAN SAFARI
Not a tour. 14 countries, 70 days, lodging and transportation. Stopping at major cities and small villages. See the running of the bulls, Greek wine fest, etc. Only \$450. For info call 746-3677 or 747-2254.

HELP WANTED

FREE LANCE WORK
Translators in all languages, including African, needed to translate highly technical and scientific material in several fields. Work may be done at home in free time. Only individuals with scientific training considered. Send resume to SCITRAN, Box 5456, Santa Barbara, California 93103.

FOR SALE

FOR SALE: Sony STR-6050 receiver, Dyna Preamp, Dyna Stereo-70 amp, Dyna FM tuner; B & W Motorcycle. Call 795-0578 between 12 a.m. and 12 p.m.

AM/FM receiver, bookshelf speakers, changer, headphones, all for \$125. After 1 p.m. 839-2216.

Studio Scotch or Ampex 1800 feet low noise, reg \$7.35; now only \$1.94. 1800 feet standard output reg. \$6.20 now only \$1.50. DAK Sound Ent. 877-5884 984-1559.

'69 GTO, 9000 miles, engine 400, ram air, tape deck, stick shift, \$2,875. 793-7679.

REAL ESTATE

REDUCED FOR SALE - \$29,500
Upper Hastings, 1800 sq. ft., 3 bedrooms, 2 baths, slate entry, paneled 19 x 16 family room, 2 fireplaces, plus bonus playroom; move-in condition, many extras. Call to see: 351-0539.

HOUSE FOR LEASE-Unfurnished Large 3-bedroom house in Arcadia, excellent for visiting professor and family. Den, dining room, living room, playroom, sundeck and patio, large fenced yard, two blocks to school. Available June 1, \$295 per month. 446-4144.

SPANISH! OPEN 2-5
A unique Mexican ranch house, 4 bdrm., 2 bath, separate dining rm., den, lg. family kitchen. Don't just drive by, the charm is on the inside. 2517 Page Drive (6 blks. E. of Lake, S. from Altadena Drive.) \$37,950 submit, by owner. 797-8222.

PEACE & QUIET
2 bedrooms, knotty pine in living room, used brick porch, and children's playhouse. Deep lot, view of mountains. \$16,950. Ydren Realty 355-3482.

SERVICES

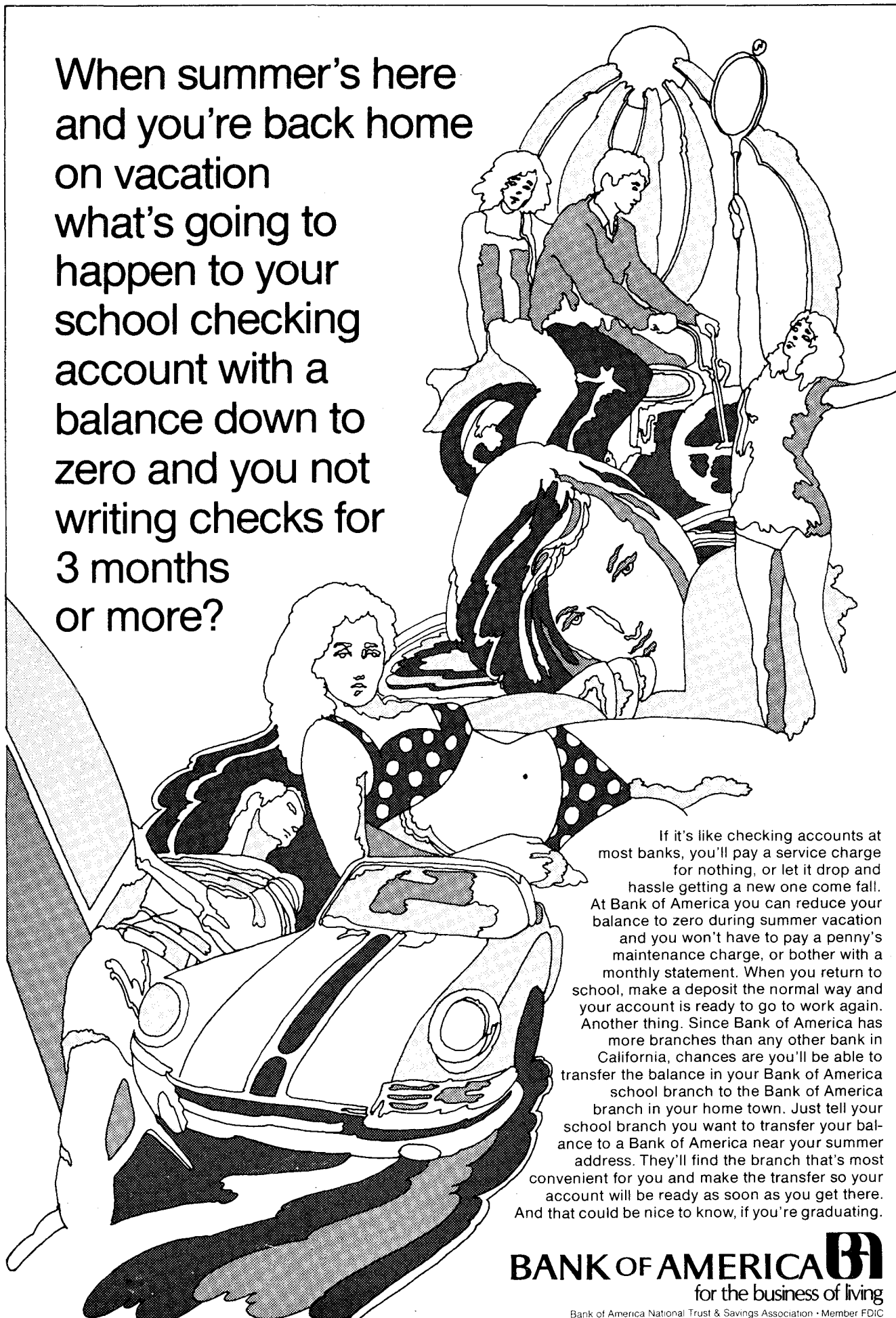
ALTERATIONS & TAILORING, exp. Japanese, 1001 E. Colorado Blvd, Room 214, 793-2476.

TYPING, term papers, technical reports, correspondence and resumes typed in my home. IBM Executive Typewriter. Patricia Clabaugh, 792-1641.

TYPING SERVICE: papers or theses, also 5¢ Xerox & offset printing. Open 8-9 weekdays, 8-5 Fri. & Sat. University Press. Phone 223-1189.

You, too, can take out ads in the California Tech!!!! \$1.50 per inch plus 20¢ per extra line for Classifieds. Bring ad copy to the Tech office, or phone Caltech ext. 2154. O.K.?

When summer's here and you're back home on vacation what's going to happen to your school checking account with a balance down to zero and you not writing checks for 3 months or more?



If it's like checking accounts at most banks, you'll pay a service charge for nothing, or let it drop and hassle getting a new one come fall. At Bank of America you can reduce your balance to zero during summer vacation and you won't have to pay a penny's maintenance charge, or bother with a monthly statement. When you return to school, make a deposit the normal way and your account is ready to go to work again. Another thing. Since Bank of America has more branches than any other bank in California, chances are you'll be able to transfer the balance in your Bank of America school branch to the Bank of America branch in your home town. Just tell your school branch you want to transfer your balance to a Bank of America near your summer address. They'll find the branch that's most convenient for you and make the transfer so your account will be ready as soon as you get there. And that could be nice to know, if you're graduating.

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The Jester Will Continue On In His Quest For

Continued from Page Three

hundred square yards of shattered stalks, four shredded-cane-covered Ministry of Agriculture men, and a consuming desire to do Arkady Rodionovitch Vrazumihin bodily harm.

It soon was apparent that the cuts made before the cutter burned out (British Electrochemical Industries, Ltd. never intended their chemical batteries for such service) had had too much backswing or too much follow-through; anyhow, the front wheel and part of the motor of their car had been cut through neatly and silently.

Russian Viewpoint

From a Russian's viewpoint,

Cuba has been much improved since Castro took over. If a Russian gives orders, (especially if they are on Ministry of Agriculture stationery) there is no lackadaisicalness about obedience to the order. So, most of the night, stevedores unloaded sugarcane cutters prominently marked CCCP, and early in the morning more than 100,000 Cubans received the latest fruit of the solidarity of the Cuban Peoples' Republic and the Union of Soviet Socialist Republics. One may well say that the Cuban farmers were lucky that the Russian copies burned out sooner than the Swedish-made original which the Agriculture men had

had, (all thanks are due to the avarice of the manager of the Bleditchneskoye Chemical Works, who made several thousand rubles by skimping on the calcium thio-sulphate in the batteries), but these unfortunate farmers had wiped out little hunks of their fields, as the weaker batteries produced a less-powerful beam, so they too were in an ugly humor. As the Agriculture men walked, they found themselves leading a growing band of furious farmers. It was indeed a heady feeling to march at the head of a swelling horde. The fuming crowd swept into Havana, and stormed Arkady's hotel, and then swept out

again and vented their fury on every Russian-made car, Russian-owned building, Russian missile base, and Russian they could find, as Tass announced sorrowfully to the world the next day.

Detectives Reconstruct

After the fact detectives reconstructed the escape, and they can tell you about the pocket submarine Comrade Vasily Petrovich Erdsenov, and the electronic-monitoring boat code-named "Two Kopecs" and how the Soviet Navy Command really didn't order a man moved from Cuba to Sweden as fast as possible, but all the Agriculture men and farmers knew was that a

miraculously-recovered Arkady had given various orders after they had left, and vanished with no trace except for leaving a bottle of cake coloring labeled "Old Rogue Elephant... One Snort and You Know You're Done For...100% Red-Eye (non-toxic);" a complicated arrangement of belts, tubes and bottles attached to gadgets which fitted invisibly on one's hands, providing an explanation of the strange Lower Uzbekistan way of clutching a glass; and a note which said in English, "Don't fidel around with things you don't understand. Keep 'em down on the farm, the Jester."



They do exciting things.

The California Tech