Booth Adds New Terminals To Time-Sharing System

by Bruce Britton

Booth Computing Center will increase the scope of its time-sharing system in the near future. The Basic Time-Sharing System (BTSS), which runs on Caltech's IBM System/360 Model 50, will add 15 terminals to the system. The Mount Wilson offices and the Mount Wilson observatory will both be served by the new terminals.

In addition to the 41 Caltech terminals, there will be 19 terminals shipped to four off-campus institutions in Southern California area at ten colleges. The Associated Students of Pomona College will get six, the University of Redlands four, La Verne two, Occidental College five, and Cal Lutheran two.

The off-campus lines will be connected to Caltech in two different ways. The Mount Wilson offices and the Mount Wilson observatory will get six, the University of Redlands four, La Verne two, Occidental College five, and Cal Lutheran two.

Continued on Page Four

Huttenback Has Open House

Dean of Students R. A. Huttenback proved that little pitchers can fill big bags in the nd periodic Arden House beer bash. Observes how cleverly the photographer is using the palm tree to prop up the picture straight. We have but one question: Why wasn't Marge the elephant invited??
Frankly Speaking


Never Before Have So Many

The faculty is about to make a decision which could mark a major turning point for the worse in student house life. The Faculty Board has passed on to the general faculty a proposal to increase the size of the freshman class by 25, from 200 to 225. Three weeks ago we published an editorial explaining why we felt this would be a mistake. We reiterate our reasons:

1) To begin with, the unusually large freshman class this year has brought the Student House personnel close to being overcrowded. The addition of 25 more students in the houses will make the situation critical.

2) As a result of the overcrowding which would follow any increase in undergraduate enrollments, many students would be forced to live off campus. Life in the student houses is one of the most interesting aspects of life at Caltech. The opportunity to live in the houses should not be denied to anyone who wishes to enjoy (and endure) it.

3) Many of the freshmen (new houses) are crowded far more than the upperclassmen. The more off-campus the upperclassmen, the more crowded the student houses.

4) We believe that insufficient consideration has been given by the proponents of this increase to its effect on the student houses. We hope that the faculty will decide on the basis of these considerations to postpone any further action.

We hope that students will offer their opinions on the faculty's important issue. The Tech offers itself as a forum for opinion on this matter.

Craig L. Sargis

Letters

Bradley Defends Lost Weekend

Dear Sirs:

Every year, Lost Weekend comes under attack for being an event spending too much money on too few people. Generally the dudes behind the accusations don't see any point in social activities for all-or-none at athletics, as ASCIT, musical, a Glee Club, or an Band. The debate over whether the expenditure of ASCIT dues is equitable with respect to all ASCIT members has gone on since ASCIT was incorporated. I am sure there are some House members who don't think they are getting their $5 in term worth, and, if we really want to gross, we can debate the allocation of funds collected as Federal Income Tax.

Given, then, that dues or taxes should be spent in the most equitable manner, does Lost Weekend meet the test? The following reasons have been given in support of Lost Weekend:

1) It's nice to have one, big snowball event a year to look forward to and to count on. (Girls may argue this point more than guys.)

2) Lost Weekend furnishes us ingredients to get a third term, this adding to the general Caltech concept of well-roundedness.

3) It is an open event to anyone normal enough to be able to date a girl of Winnett college. The alleged discrimination against stage is a function of the guys themselves--not of the event.

4) I suppose it can be argued that Lost Weekend is a tradition. Every high school and college in the country--with the possible exception of Ambassador College--has a big social event at the end of the year, be it a Prom or a June Week (West Point). The reason for this abstraction--mostly stemming from the first point and the fact that school is almost over. Some people want to celebrate in such a manner that they'll be able to remember the next day that they had.

ASCIT feet half of the bill of the Catalina trip and the Buffet dinner. Last year it paid for the Prom in its event as class dues were abolished. It might also be pointed out that ASCIT members are generally free granted admission to athletic events, Glee Club concerts, Band concert(s) and to the Musical.

Only the people who don't attend lose their "share."

Bill Bradley

ASCIT Social Chairman

Professor Sternberg

Questions Police Practices

Guestmen:

The new and stringent law against driving under the influence of alcohol fills an important need. I strongly favor its strict enforcement. A fair administration of this law, however, would seem to call for improvements in current police procedures, as evidenced by a recent experience of mine.

On November 6, 1969, my wife and I took two out-of-town guests to dinner at a Los Angeles restaurant. At 7:15 p.m. before eating, I had half an ounce of aquavit and one glass of beer--my total alcohol consumption for the evening. More than three and a half hours later, after over an hour's walk, I was stopped by a police officer while driving east on Melrose Avenue. He asked me to blow into his hand while stretching a stretch of road that is conspicuously non-urban condition. The officer informed me that I had attracted his attention by my "slow pace" and "weaving." As an attempt to relate the precise details of my alcoholic indulgence served only to increase the officer's suspicions and was interpreted as an unmistakable sign of a guilty conscience. Apparently an innocent driver's first association on being accused of "weaving" is to the textile industry.

Unfamiliar with the bizarre gymnastics involved, I agreed to take on-the-spot motor test for intoxication. In the course of the examination, which for me was of a brilliant, I became so ingnant at the absurdity of the situation that I was to a humiliating public display that I

Continued on Page Four

Frankly Speaking

Frank's Cartoons Come to Tech

The California Tech has just acquired the rights for Phil Frank's editorial cartoon series, "Frankly Speaking." Frank, Collegiate Syndicat e's first syndicated artist, has drawn 3,000 cartoons and published five books in his four-year career. Frank graduated from Michigan State University in 1965. He has worked for Halcius, Carl Poulhson's ill-fated presidential campaign, and the MSU Advertising Department. The formerly now works for the California Tech's Advertising Department.

Craig Sarazin

FRANKLY SPEAKING

FRANKLY SPEAKING

by Phil Frank

The opinions expressed herein are solely those of the writers under whose by-lines they appear. Only the upper left portion of the editorial opinion of the CALIFORNIA TECH and the unsigned writers.

The Editors
The Beat Goes Off

Etaoin Schrodulu Speaks!

The Faculty Board unanimously approved the proposal mentioned here last week, for increasing the size of the experimental class to about 250 students and admitting women as well as possible in addition to our current quotas, provided that there are enough qualified people. Now this motion is about to go before the general faculty to be passed or defeated in a faculty meeting. Therefore, any person concerned should be sent to involved faculty members (such as Lyman Briggs, Dr. Brown, Bonner).

At LAST!

Any students interested in serving on the Admissions Committee this year should contact their house president or any member of the Times staff.

For those of you who hadn't noticed, room 23 Throop can be one of the more useful places on campus. It is also to the Office, room 23 has large numbers of catalogues for other courses, some of which are not offered in the third floor of Millikan, and random collections of job placement propaganda. All you trolls can pick up GRE applications there too.

I claim to speak for no one but myself. I am neither wholly liberal nor conservative. I speak for "The Third Wing."

It has been disclosed during the last few weeks that the United States is working on and stockpiling weapons of dubious safety, merit, or legality. The United States is specifically forbidden by the Geneva rules, to which the United States claims to adhere, for the use of such weapons.

Several weeks ago, it was disclosed that the U.S. Army had a stockpile of canister and cluster munitions. When asked about this, Army Ordnance spokesmen gave the effect to the effect, "Well, we don't intend to use them, but in case we need them, we have them."

Remarks about the use of the Army also had a large stockpile of dumb-dumb type bullets, but these have not yet been confirmed. Such weapons as these have previously been attributed to the Vietnamese army and to the Chinese. Whether or not they have been used before, it is interesting to note that the attrition-over-500-stones-out-of-1,000-things-gone-down-lately. One wonders if the United States intends to use a policy of "shot-too-bad-policy," and use the outcomes of a war of the war comes, it could happen.

How many of you have read a book entitled "Fever Island"? You guessed it! The Defense Department has temporarily withdrawn the book in question to create and isolate a spin of anti-communist propaganda. The book is about to be re-issued in a different form, concentrating on natural antibiotics and defenses, and also to medical therapeutic tech.

I have read some of the reports out during testimony before a Congressional committee by a Dr. D. D. and a Dr. D. D. on a "project." Dr. Mc Arthur said that work had progressed to the point where they could take up to five years and ten million dollars to develop such a deadly organism. Somehow the idea seems something like the universal audience. Where do you state the organism on your W2? Do you protect your own side? And why the hell is the government putting that money out? Why didn't they stop earlier? They only have themselves to blame, I mean, after all, you don't meet pressure, and at that they have only

The Coffeehouse

The Coffeehouse

Open

Sundaes

Coffee

Nitely

Soda

2:00 AM

At the sign of the turtle

1101 San Pasqual

Near Wilson

The Student

Full service

Max-Thu, 7:15-10:30

Fri.-6:30-10:15

Sat.-9:30-10:00

Sun.-2:30-4:30

Nick Smith

The Third Wing

Wednesday, November 20, 1969

The California Tech

Interesting Courses Offered

EE 163 Digital Communication, M. Osting. This course will study modulation, demodulation, and control, spectrum and control; link design, deep space communication systems. Prerequisites (advised if not officially required): read 112a or permission of instructor.

IS 10a Introduction to the Use of Computers, G. McCann. Last year this course was a trivial exercise in learning basic Fortran, and was graded Pass-Fail, and was taken by everyone. It's not clear how much of that will be carried over this year.

IS 181a Linear Programming, J. Frankel. Don't be fooled by the course number; this course has very little to do with Information Systems. It's just the first term of this course. Dr. Bates notes that the course will be based on the subject of systems development, and the roles in same of political parties, public administration, bureaucrats, and local value systems and cultures. The main theme will be on how to deal with the techniques of large-scale political systems, political symbols and stability, and theories of political change and development. Third term will be a case study of Nigeria, and possibly the Congo.

The Third Wing

Dr. Harold Brown is in Helsinki, Finland, this week as a member of the American delegation at the United States-Russia arms limitation talks. Dr. Brown is one of the seven delegates to the conference. The other delegates are: Gerald Smith, Director of the U.S. Arms Control and Disarmament Agency, Paul Nitza, Deputy Secretary of Defense, Dr. Brown, Robert Tallman, Lyman Briggs, and Philip Farley.

Dr. Brown described the present talks as "preliminary talks to arrive at a list of subject (weapons) for discussion. There should be a permanent meeting place, delegation size, etc." He added that "there is a very remote possibility of this group coming to substantive issues." The talks have lasted two or three weeks. Dr. Brown is expected to be back by middle December. In the interim, Dr. Robert Bacher, provost, is acting president of the College.

As he wishes to limit his time commitment to government business to a few weeks a year, Brown will not take part in the popular talks.
Monyota A Hit; Party Disagreeing
by Alan Lederman

Those who long to strike out on their own and do the unusual need have gone far enough. For our benefit this weekend, for Beckman auditorium was transformed by way of music into the gypsy camp of the guitarist Carlos Montoya. Montoya has thronged both the Pasadena audience and the students. With no other instruments of effects save his guitar, he was master and guide for the evening. The rhythm of Montoya were vibrant and exhilarating, born of the Gipsy. Each treble of his guitar emphasized another flavor of the varied repertoire of Flamenco. He quickened the pulse of the audience and created a peak of excitement which could hardly be reached by the more quiet enchantments.

Flamenco guitar, originally merely an adjunct to a dance, has been elevated to Montoya to an established art form of its own. And quite a powerful form it is. Modern musical pieces can span the generation gap and yet this ancient musical form was able to do just that. Why does this music of the gypsy have such breadth appeal? It is because the gypsy is not further as free, as free as the gypsy. We all wish to roam, and to be responsible to no one but ourselves. And Montoya is able to communicate through his guitar to us, the essence of the Spanish love for life and the gypsy love of individual freedom.

Party

The reception following the concert was somewhat disappointing. After such an effulgent performance, following the stunning conclusion (two standing ovations were given), any manipulation pointed to the possibility of a rich communication with Montoya. This was not realized. The primary reason was Montoya’s lack of fluency in the English language, which defeated the format of the reception. Rather than have an informal discussion of his life as an artist and as world traveler, Montoya chose to take a very taciturn attitude. Montoya had the students stand in line and ask questions sequentially. The poorer questions elicited responses of little interest to other students, and the better questions could not be answered in a complete or informative manner because of Montoya’s lack of fluency. A translator of Spanish was available, although this merely allowed Montoya from the group one additional level rather than bringing him closer.

Despite the shortcomings of the reception, those responsible here at Caltech deserve high praise rather than criticism. Based on last year’s Isaac Stern gathering, they had good reason to hope for success, and the attempt was most sincere. And, of course, the reception was not entirely without interest. One learned that the greater part of Flamenco art is in intuition and feel, and coupled with the basic tools of two and three note repetition. This, of course, requires the artist to be much more of a performer; he must sense the mood of the occasion and improve appropriately. Reflecting on the concert, I can read several examples of this.

Moreover, the reception added an important note of friendship on the part of Caltech students. Montoya made the point that it is highly important for an artist to know that he continues to appeal to youth. Concerts and receptions such as these are very rewarding to the students here as well. If we can promote student participation in the Beckman events, everyone will benefit to a small degree.

Jesse Unruh is
Leader of America

Jesse Unruh, California Assembly minority leader, has been chosen as Caltech’s “Leader of America for this year.” The honor is given by the Caltech YMCA every year. He will be present for a series of activities next week involving students, faculty, and administration. There will be walk-ins, a panel discussion with Jesse Auditorium, as well as an Olive Walk Talk. Tuesday and Wednesday Unruh will turn into a listener, sitting in on briefings on subjects concerning the Assembly. The students, by the way, will also be eating in two of the student houses.

College Best Sellers

Compiled by University Review

PAPERBACK
1. Soul on Ice – Cleaver
2. Steppenwolf – Hesse
3. Demian – Hesse
4. The Politics of Experience – Laing
5. The Money Game – Smith
6. Black Rage – Grier and Cobbs
8. An African Man – Malamud
9. American Suite (Traditional) – Chaloupka
10. Nocturne – Dabney

PAPERBACK
1. Portrait of an Artist – Roth
2. The Godfather – Puzo
3. Ada – Nabokov
4. Between Parent and Teenager – Giniott
5. The Norton Principle – Peter and Hull

Beckman Schedule
For Rest Of Term
by Pearl Flec’t Beutron

Beckman Auditorium closes out its first term season with a bang. There are still three events this term in Beckman, representing three different areas of the arts. On Monday, November 24, Mr. Basil Davidson give the final lecture in the Beckman Lecture Series for first term. On December 3, Nana Mouskouri will sing in concert. On December 5, a film, The Henry Miller “Odyssey,” will be shown.

Student tickets will be offered by the Music Center Opera Association for certain performances of the New York City Opera, which opened yesterday in the Music Center’s Pavilion.

Tickets are available for student groups of 20 or more at the rate of $3.30 per person.

The performances for which the student rate applies are for Mozart’s “The Marriage of Figaro” on Sunday, November 30 at 8:00 p.m. for Puccini’s “Il Tritico” (composed of “II Tabarro,” “Bober Angelica” and “Gianni Schicchi”) on Tuesday Dec. 2 at 8:00 p.m., and Moore’s “The Ballad of Baby Doe” on Saturday afternoon, Dec. 6 at 2:00 p.m.

Student groups may order by calling 839-1287 (Mrs. Jorgensen).

DARBYN CHAMBER MUSIC SERIES TO PRESENT DUPO HARRIDS

On Sunday, November 23, at 8:15 p.m. in Darbyn Lounge of the Humanities Building, Oss Harnoy, Paula Scherberger and Stanley Choupskie will give a concert in the continuing Darbyn Lounge series.

Included in the program will be Sunday in the Bleeker Street of S. Bach; Gunina (M. DeFalla); Mexican music, “Dance Andalouses” (M. Infantil), American Suite (Trad.), and the Sarabande from “Sixth Cello Suite” (J. S. Bach).

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Admission to the Caltech Lecture Series is free; no tickets are needed. Tickets to the Beikman concert and the Miller film are available at the Beckman Ticket Office, on campus, just north of Beckman Auditorium. Call campus extension 1653 for further information.

Music Center Has
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This review, I've got a surprise for you. The program is still on, so you can actually see what the rest of the night will be like.

Anyway, the show at the Ice House opens with an act called To People. It consists of a male guitarist and a female vocalist. The guy sings too, but not impressively. They did songs by the Beatles, Doobie, Joe Smith, Hoyt Axton, and others. To People were (wasn't) very good, but nothing spectacular.

They told a story, or sang not as well-known, where there was no memory of a hit version.

Bill Callery reminded me somewhat of John Hartford, or someone like that. He played guitar and banjo, and played in a sort of free-flowing country style. He did a few traditional songs and obscure songs, as well as some written more recently. He did one by Jimmy DeDuggel, called "the Tennessee Stad," and two by Woody Guthrie, "Coal Miner's Children" and "Tom Joad." Those few of you out there who Are iterates may have guessed half of his repertoire, since it's Line's Steckin's Gypsies of Whatch.

This material is the sort that brought about the so-called folk revival of the 1960's, when Dylan, and which influenced Woody's son, Arlo. So, if you like singers like Woody Guthrie or John Hartford, you'll probably like Bill Callery.

Belland and Somerville are really good! Both have a long musical history, but are lead singers for the Four Preps, and the other singer for the Diamonds (remember them). In addition to being good singers, they are both slightly insane comedians. They throw Rowan and Martin-type parodies into their act, but only when it's necessary. They're not straining the music too much. They did songs like "Girl from Ipanema," "Simple Song," "First Cut is the Dearest." They closed the show with a "Draft Dogs Roger," after growing our drummer during the lead-in.

I really liked Belland and Somerville, and I'm sure most of you did too.

It has come to my attention that many of you know nothing about the Ice House. I shall remedy that. It is at 24 North Mentor, about eight blocks south of the Central shopping center. There is no age minimum, no minimum purchase, and only $1.50 per person, admission charge. They have food and drinks, alcoholic and non. In all, it's a good place to go. So...

-Nick Smith

Ramparts Reprint

The Black Moochie

Editors Note: This is the first of three excerpts from the novel, The Black Moochie, a novella by Elridge Claver. Reprinted from the November 1969, issue of Ramparts Magazine.

What did I know? The sun hung bright in a hazy sky over Rose Hill. Nothing was happening. The day was except the tortured housewives, millionaires, millionaires, occasional policemen, little children, and the hustlers. I wasn't really hitting anything. Only my mind was on conquering the world, yet I didn't feel at its mercy. It was as though I had stepped outside the world, outside the system. I was not affected by its rules. In those days the world looked like a huge, wildly spinning merry-go-round. As I moved into it, I was not running it; I didn't know who controlled it, how it worked, or what its mechanism was. This was the source of my humiliation—that I was failing, that I could not see my way to mastering this merry-go-round.

I was driven by a desire to lord it over the grungy beneath a tree, watching the merry-go-round in its spin. I was drunk with a loathing for my own impotence. In my fantasy, I saw, not only me, a whole world of which I called, for whatever obscure, private reason, "the Map Room." It was a large table in the center of the Map Room, was a large table on which there was a big, ten-foot high, carved shape of Los Angeles County. Gathered around the table were 13 fed, greenly white businessmen and politicians. The Mayor, City Councilmen, Supervisors, the Police Chief, the Sheriff, the President of the Commerce Chamber and a Hotelier. Each was wearing a white tie, C wielded the knife. A Negro in a suit stepped forward into the circle of light. His face was a hideous composite: he resembled every black man I had ever known. In his face were my father's features, my uncles, my brothers; I could see John, Bobby, Buster; I could see Joe, Leon, Gerold. With a vicious succession of plunges with his dagger, he chipped away at the roses and into the pocktes with thunderous cracks. Looking at the two pictures of the Map Room, one of the Pool Room in the City D--it seemed as if the movement of each elegantly dressed Negro was in perfect synchronization. At the same time that the President of the Commerce Chamber sliced off a piece of cake with the knife, the Big Mo plunged forward with his pool can. And every time Stella made movement with a width. The Cardinal would ring a little silver bell or wave the crucifix that hung from his neck.

The Cardinal wandered per­petually through the Map Room, sprinkling Holy Water, smiling and waiving the crucifix that hung from his neck. The Cardinal considered weared with a little silver bell or wave the crucifix that hung from his neck.

The Cardinal wandered per­petually through the Map Room, sprinkling Holy Water, smiling and waiving the crucifix which he says he values more than any of his other treasures.

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Draft
Continued from Page Three
more apparent when you realize that, although the Selective Service System is probably the most important factor in his life, he is deprived of almost all the customary legal rights in his attempts to deal with the System. Considering the enormous power that the draft holds over young American males, it is appalling to find out that most of these young men know hardly anything about their legal rights under the Selective Service law. They fail to recognize the danger of their situation until faced with the imminent prospect of being drafted at a time that they often panic and make a foolish decision. An even rudimentary knowledge of their rights would enable many of them to legally avoid induction or, at the very least, gain more time in which to study the alternatives and make a rational decision.

There are many good sources of information concerning the draft. The American Friends Service Committee (AFSC) at 980 N. Fair Oaks (791-1978) in Pasadena has experienced draft counselors as well as a well-stocked bookstore containing helpful books and pamphlets. Leslie S. Rothenberg's The Draft and You ($1.45) gives detailed and unbiased information on Selective Service classifications and procedures. Available at the AFSC, Vermont's, and the Caltech bookstore, it is an excellent book which should be read by anyone eligible for the draft. For a better picture of how to use Selective Service regulations to your maximum advantage, you should subscribe to "Counterdraft," a magazine started by Bill Smith, the leading draft counselor of the Caltech book-store, which should contain at the very minimum a copy of The Draft and You, a binder containing all the past issues of "Counterdraft," and a list of the various counseling centers (available from AFSC).

Despite the importance of the draft, no doubt apathy and/or laziness will keep many students from following up on these and other sources of information. Therefore, we have decided to undertake a specific registration of voting. We think that one of the most important things a Student House can do for its members is establish a Draft Information Center in its library or lounge, which should contain at the very minimum a copy of The Draft and You.

Technology Is The Test
The phenomenon involved in the functional operation of a social mechanism that materially affects us or changes our environment is measurable. The scientists and technologists know this and have applied it directly to the task of equipping North America with the most intricate and efficient productive mechanism ever to exist on earth. When they are given their chance, they will see that the abundant goods and services produced are adequately distributed to everyone on the Continent. Technocracy in the tool by which North Americans may gain abundance and security.

Technocracy would put into operation a 'continental cockpit' of all flow lines of production and distribution—a terrestrial statistical system which would determine the amount of goods and services produced, the amount available for consumption by the total population during the balance-load period. By means of the registration of energy converted and consumed, make possible a balanced load.

(1) Register on a continuous 24-hour-per-day basis the total net conversion of energy into usable form; and
(2) Measure the availability of energy for Continental plant construction and maintenance; (b) the amount of physical goods and services for consumption by the total population during the balance-load period.

(2) Provide a continuous inventory of all goods and services which are available.

(3) Provide a specific registration of the consumption of each individual, plus a record and description of the individual's tastes. Such a method will allow the citizen the widest latitude of choice in consuming his individual share of Continental physical wealth.

(4) Distribute goods and services abundantly to every member of the population.

Smith
Continued from Page Three
The fact that the government is no longer satisfied with being able to destroy the world with nuclear weapons alone is disturbing. The idea that the U.S. might start a war as a result of an overwhelming feeling of humanity without firing a shot is disturbing. I have no idea how to convince the government of the true dangers of unlimited total war, a government that buys over a thousand tons of rice per year, producing one vial of germs that would seem minor, and yet the vial might kill more people than all our nuclear stocks. I am not pushing for total disarmament, or anything like that. I just don't like the idea of stockpiling weapons that are deadly but not aimed.

Letters Concluded
Continued from Page Five
Dear Sirs:
Dabney House will not be participating in the 1969 Interhouse Dance. Our decision not to parti­ cipate was arrived at by fair and democratic means and represents the decision of all of the members of our house. This being the case, I feel no need to defend that decision in any way.

We realize that this decision is a considerable break with time­ honored tradition. It is certain to place us at odds with those more overtaken of tradition than ourselves. This statement is written in the hope of minimizing such misunderstandings as any result.

First of all, our decision is effective for this year only; no other years. Our desire to burden future Dabney House members with a tradition of Interhouse participation is as expressed. We hope that this question will receive on its own merits on an annual basis; we feel it preferable to view the questão of house tradition in terms of its value for the house as a whole rather than as a tradition which must be satisfied even in disregard of our own preferences. No event as expensive of time and money as Interhouse Dance which cannot command the support of at least the majority of our house members has any place on our social calendar, tradition notwithstanding.

The present system of implementing the time is simply that there are more fruitful ways to spend our money and our time.

Frank Zybala
President, Dabney House

Booth
Continued from Page One
and Seismo Lab terminals will communicate via a database. Termi­ nals at the ten colleges will be multiplexed together at the dif­ ferent campus terminals, then transmitted over telephone company leased lines to the Caltech campus.
The office complex terminal network is being subsidized with a $213,000 grant from the National Science Foundation. The purpose of the network is to investigate computer usage in the curriculum, according to Charles Ray, who is in charge of Caltech's computer hardware. The first steps in implementing the system have been already taken. During the summer, a new disk storage facility was added. The new facility has six times the storage capacity of the old one, and twice the data transfer rate. Plans for the new on-campus computer lines have been made, and the Physical Plant Department is cur­ rently installing the cables. The off-campus leased lines are now being checked by the company supplying the telephone service. Along with the hardware changes, the software support for the system is being improved, so that the additional terminals should not degrade the response time of the computer.

In an exclusive interview with the Student Life, William A. Booth, chairman of the terminal committee, stated that work is being done on all of the terminal lines and that each terminal line can be brought on-line as soon as it is ready. He did not give a firm date for installation of all of the terminals, as much depends on the amount of work that Physical Plant has to do.
Run for Your Life
Tech 8th in
by Martin T. Smith
Caltech's cross country team finished 8th Saturday in the NAIA District III Cross Country meet. The top Caltech finisher was Martin Smith, who completed the 5-mile course in 27:34 for 30th place. Close behind were Ratch Higgins (38th, 27:47) and Gary Pope (43rd, 28:02). After a gap, the rest of the team finished in good order, with Alquist, Hermeyer, Deitel, and Tardiff closely spaced in 58th, 59th, 60th, and 63rd, respectively.

In Season
A powerful Westmont team dominated the race, taking first, second, third, fifth, and ninth to win with 21 points. Occidental took second, Caltech third, Redlands fourth, and A.U. and all-comers meets in the area, including a 10 mile race on northside Park on Sunday, November 30th.

NAIA Run

The Caltech cross country team runs its final meet of the season today, a dual meet at the University of California at San Diego. Of course, the runners will continue running, a few of them competing in A.U. and all-comers meets in the area, including a 10 mile race on northside Park on Sunday, November 30th.

Caltech Ends Season Today
The Caltech cross country team finishes its main meet of the season today, a dual meet at the University of California at San Diego. Of course, the runners will continue running, a few of them competing in A.U. and all-comers meets in the area, including a 10 mile race on northside Park on Sunday, November 30th.

Freshman Quarterback Bob Banks runs for daylight.

Beavers Look Good But Lose to Oxy 29-7

by Richard Short
The Caltech football team was defeated by Occidental 29-7 Saturday in Tournament Park in what was probably the best game played this season. Tech gained 18 first downs, tops for 1969, and had 307 net yards gained. The Beavers moved 142 yards on the ground and 165 yards on their passing game. Occidental rushed for just 104 yards, but had a very good passing attack that gave them 596 yards net and a total of 500 net yards gained. The winners, who had 21 first downs, scored three of their four touchdowns on passes of 80, 24 and 9 yards. This year's Caltech Band has been a key part of the team's success, and their performance at Occidental was especially well-received.

Boost Spirit

by Mike Stefanko
The Caltech Band has an excellent reputation for its high morale and quality performances. The band has performed in various venues, including halftime shows at football games and outdoor concerts for the community. This year's band has been particularly impressive, with a new conductor and several additions to the roster. The band's spirit and enthusiasm have been a key factor in the team's success, and they continue to be an integral part of the Tech experience.

Water Polo Team Rips Pomona, SF State

by Mike Stefanko
This year's Water Polo team has been one of the strongest in recent years. Led by senior captain John Smith, the team has been playing at a high level throughout the season. They have won several conference games and are looking to defend their conference championship. The team's success can be attributed to strong leadership, a supportive team culture, and a solid training program.

Gutman Optimistic Over New Schedule

by Richard Short
A new football schedule for the 1970 season has been arranged. Most of the details have now been worked out in the plan that will drop three teams which Caltech played this year from next season's schedule. This will bring to a total of five the number of teams that Tech has dropped from its schedule in the last two years, to be replaced by other opponents.

The new opponents that the Beavers will face in 1970 will give Caltech a good chance to win six of its eight games, according to head football coach Mr. Tom Gutman. Gutman said that Pomona and Azusa-Pacific will be the only really tough competition for the team. Other adversaries will be the Whittier JVs, the Redlands Freshman, the University of San Diego, Pico Verdes College, Claremont-Harvey Mudd JVs, and either Victorville College or College of the Desert. Occidental, La Verne and the Claremont-Harvey Mudd varsity squads were those teams on this year's schedule that we will no longer play.
Eldridge Cleaver

Continued from Page Five

Holy Water and bell down, reach beneath his red tunic, pull out a plastic bag and one half of the slice of cake. In one corner, a Negro, he broke the slice of cake in half, wrapped one half in the plastic bag and concealed it under his tunic. Then he plunged the other half into his mouth and chewed vigorously. After a moment, he picked up the vessel of Holy Water and raised it to his lips. He washed the cake down with Holy Water, almost emptying the vessel. Then, mumbling in Latin, he began picking the crumbs off the silver tray, putting each crumb on the tip of his unusually long tongue. He didn’t leave a single crumb on the tray.

Just as he picked up his silver bell, he noticed the Negro beneath the table staring at him like a frozen statue, with open mouth and wide bug eyes. The Cardinal, shaken by the intensity and surprise of the stare but quickly recovering, smiled at the Negro and, tossing a few drops of Holy Water his way, tinkled his bell in the Negro’s direction and resumed his itinerary around the room. At the sound of the bell, the Negro snapped back to reality, shaking his head in bewildered disappointment as though he still did not believe what his eyes had seen. He concluded that he must have been dreaming. He picked up his dustpan and broom and, after carefully sweeping up a small pile of crumbs that had accumulated while he was preoccupied with the slice of cake on the silver tray, resumed catching the last of the crumbs as they fell. He worked with more enthusiasm than ever, glad that the party was over so that he could be getting home to his wife and children.

On the wall, witty sayings:

God And I Are One – Cardinal Sparedentre.

Let Them Eat Cake – Marie Antoinette.

God Use Cost Accounting In His Battle With Satan – Charlie Wilson.