

If you haven't
done it ...

The CALIFORNIA Tech

At least
you've thought
about it

VOLUME LXXI

Pasadena, California, Thursday, November 20, 1969

Number 9

CALTECH STRUCK BY ROBBERY AND 3 THEFTS

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 35 terminals as soon as the communications lines are ready.

Currently, BTSS serves the Caltech community through 25 remote typewriter terminals, including six in physics, five in Booth, five in chemistry, and four in engineering. Four of the five in Booth, along with three new terminals, will be installed in 25 Bridge, as a student lab. Additional terminals will go to physics, engineering, biology, chemistry, and mathematics. Also, humanities will get two terminals. Two more terminals will go off-campus. One will go to the Seismo Lab, and the other will go to the Mount Wilson offices on Santa Barbara Street.

Computer Proliferates

In addition to the 41 Caltech terminals, there will be 19 terminals spread around the Southern California area at ten colleges. The Associated Claremont Colleges will get six, the University of Redlands five, La Verne two, Occidental College four, and Cal Lutheran two.

The off-campus lines will be connected to Caltech in two different ways. The Mount Wilson
Continued on Page Six



Tony Russo of the RAND Corporation speaks at the Moratorium.

—photo by Fisher

March and Rally Highlight Tech's Second Moratorium

by Dave Dixon

Last Friday and Saturday the second Moratorium at Caltech took place. Various discussions and lectures were on Friday. However, they were just a prelude to the march and rally on Saturday which was the culmination of the events of the two days.

Friday's events began with a rally on the olive walk. Three speakers, Tony Russo of RAND Corp., Dr. Arnold Kauffmann of UCLA, and U.S. congressman George Brown spoke to a crowd of 150 people. The keynote speaker was Brown, who talked about the political

aspects of the United States' involvement in Vietnam.

That night, a teach-in took place in Culbertson. The first speaker, Dr. Stephen Reichert of P.C.C., talked about the historical aspects of the Vietnam conflict, dealing especially with the period around 1954. J. Morgan Kousser also spoke on the history of Vietnam, but talked mainly about recent cases in which the United States may have illegally altered events. He made the point that the war is good in that it makes the United States look at its "Big Brother" image in the world. He then questioned the legitimacy of this image.

Dr. Lance Davis of Caltech represented Nixon's "silent majority." He said that the United States should never have become involved in the war. However, since we are in the war, we must consider the implications of immediate withdrawal.

After the three speeches, a short debate was held between the speakers with Kousser and Davis dominating it. Here they discussed the moral issue and the "domino theory," i.e. if Vietnam falls, so does the rest of Southeast Asia. The teach-in ended with general audience participation in the discussions.

The high point of the two days was the "Walk for Whom the Bells Toll" and the following rally held on Saturday afternoon. Even with bad weather, approximately 1000 marchers started from P.C.C. By the time they reached the rally point at the park across from City Hall, their ranks had swelled to 1500 people.

The march went very smoothly and calmly with essentially no harassment. Approximately 50 Caltech students and 10 faculty members marched. Around 15 of these students served as monitors who helped keep the march running smoothly and directing people across intersections.

The rally began with folk singing and was followed by five short speeches by Pasadena citizens, including three members of the Caltech community. These were Dr. Lester Lees, Dr. Herb Meiselman, and Larry Benowitz. It was all very calm and peaceful with everyone sitting on the grass listening to the
Continued on Page Six

Armed Robbery in Keck Thefts from Winnett, Alles

At least three burglaries and one armed robbery were reported during the Thursday night-Friday morning hours last week, according to Ken Charles, head of campus security. Approximately \$500 in cash and \$1500 in checks were stolen from the Athenaeum earlier in the week as well as some electronic instrumentation from Alles Labs. The armed robbery occurred last Thursday night in Keck Graduate House.

Interhouse Dance Comes Again This Saturday

by Paul Levin

Again this year's Interhouse Dance Preparations have gotten off to a fast start, but have slowed considerably in the last few days. Ricketts House has decided to go with a yellow submarine theme, consisting of, most appropriately, a yellow submarine filled with all sorts of snowy stuff and surrounded by a light show. Do you suppose they'll christen it U-235? Ruddock is building a ski lodge, complete with mountains. The latest edition of the house newspaper makes it sound as if they are really desperate for help. Page House is creating a haunted house. Lloyd House is using the Trojan War theme from Greek mythology. Guests will have to enter the besieged city of Troy through that fabled horse, but once they are there, it is not certain what they will find. Blacker House is building in the spirit of the Wizard of Oz. Among other things there will be a yellow brick dance floor. Fleming House is attempting to recreate an English town house and village setting. The real surprise has been Dabney House—it is doing NOTHING! Though there was at least one plan (reenacting the coronation of Henry VIII), nothing has come of it. For the official explanation, see Dabney House President Frank Zdybel's letter in this issue.

At 11:25 Thursday evening two armed men appeared at the door of a graduate student in Keck House on campus. He answered their knock, expecting a fellow student. Greeting him was a 32 caliber automatic pistol held by one of the men. He was ordered to give him his money. A second thief went next door to check if he could have similar luck. That room was empty. The only articles removed were \$6 in cash. The first thief found \$60 in cash. He ordered the grad student, who remains anonymous, to sit in the corner; then he left.

Later on, the large color television set, valued at \$425, was removed from Winnett Center. Charles fixed the time between 2:00 and 6:00 a.m. No evidence of forced entry was shown. Campus Security locked the student center at 2:00 a.m. Very few students have keys.

This is the first armed robbery ever noted at Caltech. The crime rate has approximately doubled in the past two years.

Please Gobble Turkeys Sooner

REMINDER to members of the faculty and the Caltech community:

If you have it in mind to call the Master of Student Houses Office to invite students home to Thanksgiving dinner, it would be appreciated if you would not wait too long.

Tech's New Laureate A Man of Many Interests

by Phil Neches and Ira Moskatel

"If it weren't for freshman physics lab, I would now be an experimental physicist, and a lousy one at that," confessed Dr. Murray Gell-Mann, Caltech's latest Nobel laureate. We doubt that Dr. Gell-Mann could be lousy at anything, as he proved in an exclusive interview with the *California Tech* last Friday.

Dr. Gell-Mann proved to be far more than a brilliant theoretical physicist. His range of interests covers politics, education, Oriental culture, environmental quality, and Burmese cats, just to cite a few. The public may know him as "Dr. Quark (a name given him by some highly randomized reporter, quite obviously not from the *Tech*)," but he is more.

"I would like to see an Institute for Environmental Control," Dr. Gell-Mann told the *Tech*, "which would incorporate all of the disciplines." Workers in pure science, social science, and engineering would be associated with the projected Institute on a regular basis. Groups would be organized with specific problems in mind: all applicable specialties would be brought to bear for saving and improving the environment.

The greatest difficulty which would face his envisioned Environmental Institute would be "quantizing soft variables," that is, putting

specific values on such intangibles as having wilderness land as compared to, say, a hydroelectric plant. This said Dr. Gell-Mann, is one of the key questions in many of the social sciences.

Parkinson's Law

Dr. Gell-Mann is also a profound student of the relationship between educational and political institutions. Just how deeply should a university go into politics? Just where should a university do something which might be politically sensitive?

Dr. Gell-Mann stated that political activities should occur "on the fringe of the university, not at the heart." Should the university become too deeply involved in politics as a university, it will endanger its very existence.

Good for Something

What is a university for then, if one grants that its basic aims should be apolitical? Or, rather, what does a university do best? Dr. Gell-Mann offered the observation that universities convey specialized bodies of knowledge well, provided that they fall within strictly disciplinary limits.

When a university tries to cut across disciplinary lines, the result is usually poor. Cooperation between scholars in different fields remains minimal; interdisciplinary work, when done, seems shallow.
Continued on Page Five

Huttenback Has Open House



—photo by Dash

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

EDITORIAL

Ivory Tower Is Poisoned

Old Chinese legend had it that whenever ivory came into contact with tainted food, it turned black. Such is the situation arising now at Caltech. Within two days last week, there were three major thefts and one armed robbery reported on the Caltech campus. It was the first time anyone was held up with a firearm on campus. The robbery took place right in one of the graduate houses. The thefts involved large quantities of money or property—the total value was around \$3000.

A few weeks ago there was an angry torrent of letters to the Tech protesting Carroll Boswell's article on campus security and the Honor System. There were those questioning his standing on the Honor System and those saying that it didn't matter if the Institute lost some money or equipment. They continued on to say that the purity of life on campus was all that mattered.

That is not all that matters. It has come to a point where not only a few minor thefts threaten the temporary security of a couple of experiments. The bodily security of the whole campus community is threatened. Hyperbole, perhaps? By no means. Thieves got into Winnett Center and removed a large television and a very large, custom-made stand for it. The theft wasn't noted for at least three hours. No evidence of forced entry was shown. It is quite probable that the burglars had a key.

Now let us look at the security force that patrols the campus and is responsible for controlling said activities. The entire campus security section is composed of nine men. Ken Charles runs the force, and there is one traffic control officer during the day. That leaves only seven men for the three shifts of patrols. Only two men patrol the campus on the graveyard shift. The campus is almost seventy acres. There are 1200 people lining on the campus, and almost 3000 work on the campus during the day, not to mention visitors and continuous traffic of servicemen, salesmen, as well as dignitaries who frequent the Caltech community. We must offer them and ourselves some better guarantee of safety. Ken Charles and his small group of well-trained men (each man has attended courses at the Pasadena Police Academy for 20 weeks) do an admirable job. But they are not enough.

Few of the buildings have electric or electronic burglar alarm systems. Considering the fact that the steam tunnels have elaborate monitoring systems including microphones in certain key places, we consider it hard to believe that a system of building monitors going to a central place would be difficult to install. It might be possible then to detect high noise levels (such as a heavy table being moved) or check on the occupancy of a particular building. Such systems are common in the least sophisticated warehouses for businesses, yet we can find no evidence of their being used on the Caltech campus.

Next is the matter of the security department itself. We think it should be enlarged. There is nothing particularly obnoxious about a larger police force. We would like to see Charles' idea of the Campus Cops wearing blazers similar to those worn at Cal State L.A. This would eliminate the image of the campus policeman as a low-class cop trying to put forth the idea of his masculinity. The night patrols would have to be uniformed, and most possibly armed, it is true. Such is the case now, but the staff is overworked and two men can hardly be ubiquitous.

We understand that many members of the school administration are strongly opposed to the idea of an expanded police force. We have what we think is an air-tight argument. If the situation grows worse the Pasadena cops will come in. There are lots of things on campus where the laws of this state are taken laxly, as very well they probably should be. That would not be the case if there were real policemen on campus. Campus pranks would become misdemeanors and simple infractions, felonies. It has been said that Caltech would soon see someone hurt by outsiders? It is the next logical step. If that happens, the campus will crawling with cops, and they won't stop at major things.

Yes, it is terribly important to have a free and trusting community. But, in order to keep the ivory tower clean we are going to have to face the fact that there exists tainted food.

—Ira D. Moskatel
Craig L. Sarazin

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 wrote an editorial explaining why we felt this would be extremely ill-advised. We reiterate our reasons:

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

As a result of the overcrowding which would follow any increase in undergrad 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 (endure?) it.

Finally, if the houses (particularly the new houses) are crowded further, most of the upperclassmen will be driven off campus. This will result in a deterioration of the quality of student house life. It is the upperclassmen who maintain the character and traditions of each of the student houses.

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 this increase in enrolment.

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

—Craig L. Sarazin

The opinions expressed herein are solely those of the writers under whose by-line they appear. Only the upper left hand portion of this page represents the editorial opinion of the CALIFORNIA TECH and the undersigned writers.

—The Editors

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 programs at all—nor in athletics, an ASCIT musical, a Glee Club, or a 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 \$10 per term worth, and, if we really want to be 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, snowy event a year to look forward to and to count on. (Girls may appreciate this point more than guys.)

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

3) It is an event open to *anyone* normal enough to be able to get a date while he is in college. The alleged discrimination against stags 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 reasons for this are abstract—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 foots half of the bill of the Catalina trip and the Buffet dinner. Last year it paid for the Prom in its entirety as class dues were abolished. It might also be pointed out that ASCIT members are generally granted free 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

Gentlemen:

The new and more 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 8, 1969, my wife and I took two out-of-town visitors 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, and after over an hour's walk, I was stopped by a police officer while driving east on Melrose a few blocks past Fairfax, following a stretch of road that is in conspicuously poor condition. The officer informed me that I had attracted his attention by my "slow pace" and "weaving" progress. 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 an on-the-spot motor test for intoxication. In the course of this exercise, which I seemed to perform brilliantly, I became so indignant at being made the subject of 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 Syndicate'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 Hallmark Cards, Pat Paulsen's ill-fated presidential campaign, and MSU. He is currently working in MSU's Advertising Department. The recently formed

Collegiate Syndicate is Frank's brainchild, and it carries his cartoon series. Frank and his partner, Bob Harris, formed the Collegiate Syndicate so that they could "hit the Bigtime and become syndicated," as their news release puts it. Frank's column has appeared in several other college newspapers to date.

Editors' Note: The California Tech has purchased the rights to publish Phil Frank's editorial cartoon series "Frankly Speaking." It will run each week on the editorial page.

FRANKLY SPEAKING

by Phil Frank



'FOR THE LOVE OF MOM, APPLE PIE, AND THE AMERICAN WAY - GO MURDER THAT FINK HOWIE!!

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Paul A. Harmon

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Wright & Logan

Know Your Draft Rights!

One of the most important influences in the life of a young American today is the Selective Service System. The laws and regulations administered by the System are designed to provide involuntary manpower to our Armed Services and to channel additional manpower into occupations deemed important to the welfare or security of the United States (manpower which would often not of its own accord engage in such "important" occupations). Some people feel that the coercive power wielded by the Selective Service people is a direct violation of the Constitutional ban on involuntary servitude. Others feel that the draft is necessary but that the availability of deferments and exemptions should be discontinued. They argue that if one American is

made to place his life in jeopardy for his country, then every American should be required to do likewise.

Irregardless of how we feel about to draft, its present reality will sooner or later demand that each of us make a decision that may drastically affect the future course of our lives—whether that decision be to enter the Armed Services and possibly kill or be killed, to avoid military service by embarking on a career that we may not be interested in, to evade the draft by emigrating to another country, to actively resist the draft by refusing induction and thereby face a possible felony conviction, or whatever.

The precariousness of the draft-age male's situation becomes even

Continued on Page Six

Interesting Courses Offered

EE 163 Digital Communication, M. Easterling. Among the topics covered will be modulation, demodulation, and spectrum control; link design; deep space communication systems. Prerequisites (advised if not official): EE 13 and Ma 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. Franklin. Don't be fooled by the course number; this course has very little to do with Information Science. It is a course in the mathematics of linear programming, and requires no knowledge of formal programming languages or systems or anything like that. Ma 5 is useful but not essential. Last year this course was graded quite easily and covered relevant subjects in the math of linear problems.

Ec 116 Contemporary Socioeconomic Problems, R. Noll. Last year the Noll section of this course was a quantified approach to some of the economic problems facing this nation. If you don't like to read, or are given to didacticism in social problems, or don't know much econ, this course is not for you.

An 101 Social Stability and Social Change, E. F. Colson. Dr. Colson is a visiting professor from Berkeley who will be at Tech only for next term. Dr. Scudder says that she is one of the leading social anthropologists in this country and a good teacher and hopes that lots of Techers will take the course. The course material will focus on how developing nations which are comprised of many small groups or tribes, and do not have a dominant group, can be incorporated into a unified national state. Included will be analysis of microsocieties. Political considerations will be covered.

PS 110 Political Modernization and Development, R. Bates. Don't believe the course number PS 110b listed in the course schedule; this is the first term of this course. Dr. Bates says that the course will be based on the subject of political development, and the roles in same of political parties, public administration, bureaucracies, and local value systems and cultures. The format is basically that of a research course, with research papers and such. The main emphasis will be on African nations. Also covered are analyses 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.

Nick Smith

The Third Wing

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 past few weeks that the United States is working on and stockpiling weapons of dubious safety, merit, or use. Many of these are specifically forbidden by the Geneva rules, to which the United States claims to adhere. For example:

Several weeks ago, it was discovered that the U.S. Army had a stockpile of poisoned bullets. When asked about this, Army Ordnance said something to the effect of, "Well, we don't intend to use them, but in case we need them, we have them." Rumors also came out that the Army also had a large stockpile of dum-dum type bullets, but these have not yet been confirmed. Such weapons as these have previously been attributed to the Viet Cong and other enemies. It is interesting to note that the atrocity-in-battle stories out of Asia have been toned down lately. One wonders if the United States intends to use a "they've-done-it-too-and-anyway-it's-not-too-bad" policy, and use the bullets. If a re-escalation of the war comes, it could happen.

How many of you have read a book called *The Andromeda Strain*? You guessed it! The Defense Department has temporarily withdrawn funds from a project to create and isolate a strain of microorganism that is "resistant to natural antibodies and defenses, and also to medical therapeutic techniques." This information came out during testimony before a Congressional committee by a Dr. D. D. McArthur, who worked on the project. Dr. McArthur said that work had progressed to the point where it would take only about five years and ten million dollars to develop such a deadly organism. Somehow the idea seems something like the universal solvent. Where do you store the organism, and how do you protect your own side? And why the hell is the government trying to develop it?? And why didn't they stop earlier? They only stopped due to mounting public pressure, and at that they have only

Continued on Page Six

Brown Escapes To Helsinki

Dr. Harold Brown is in Helsinki, Finland, this week as a member of the American delegation at the United States-Russian 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, Major General Royal Allison, Lowell Thompson, and Phillip Farley.

Dr. Brown described the present talks as "preliminary talks to arrive at a list of subject (weapons) for the permanent talks, and permanent meeting place, delegation size, etc." He added that there was a "very remote possibility of this group coming to substantive issues."

These preliminary talks will last two or three weeks. Dr. Brown is expected to be back by middle December. In the interrum, Dr. Robert Bacher, provost, is acting president of the Institute.

As he wishes to limit his time commitment to government business to a few weeks a year, Brown will not take part in the permanent talks.

NOTICES

YOU LOSE!!

There will NOT be an issue of *The California Tech* next week.

OVERSEAS STUDY PROJECT

There will be a meeting tonight (Thursday) at 7:30 in Clubroom 1 for all those interested in participating in the Caltech Overseas Study Project.

POLITICAL ACTION AT CALTECH?!

An attempt is being made to form a political action group, independent of any existing group on campus. This will be an organizational meeting, and we are amenable to all ideas. We are concerned with formulating programs of a non-violent nature, with immediate emphasis on stopping the Vietnam War. Participation by all members of the Cal Tech community is encouraged. 25 Nov., Y Lounge, at noon.

ALL INTERESTED CONCERNS

There will be a meeting for all people interested in Totem on Thursday, Nov. 20 in rooms 5-8 Dabney. We will discuss plans and at least two women.

ALL OFF-CAMPUS PEOPLE

Pick up your Big T before your copy gets used for kindling fodder. Pick up from Louise Hood between 10 a.m. and 6 p.m.

PLACEMENT SERVICE

Donald S. Clark, Director of Placements, will discuss general placement problems, interview procedures, handling of correspondence, offers and acceptances and salary data on Wednesday evening, December 3. The meeting will be in Room 206 Dabney, starting at 7:15 PM and is open to students of all levels.

UNDERGRADS

On Tuesday, December 2, Peter Marx, whose legal counseling Caltech has retained primarily for graduate-student draft problems, will speak on problems concerning undergraduates and in particular, graduating seniors. If you have any questions concerning the draft (like what to do when your I-S runs out), come to the meeting at 7:30 p.m. in 151 Crellin. This will be the only meeting of the year devoted to undergrads so don't miss it. For more details see Bernard Unger in 101 Lloyd, or call 449-1564.

DOWN WITH NOTICES

All persons, especially copysetters, who oppose the inclusion of ridiculous notices in the *Tech* should meet in 205 Bridge to discuss the situation.

AT LAST!

Any students interested in serving on faculty committees this year should contact their house president or any Excomm member.

The Beat Goes Off

Etaoin Schroedlu Speaks!

The Faculty Board unanimously approved the proposal mentioned here last week, for increasing the size of the freshman class to about 225 students and admitting women as much as possible in addition to our current quotas, provided that there are enough qualified people. Now this measure is about to go before the general faculty to be passed or defeated in a faculty meeting. Reactions strongly pro or con should be sent to involved faculty members (such as Lyman Bonner) quickly if you wish to have a say in this matter. I lean toward the pro side, myself. That is, I do if there is sufficient provision made to avoid overcrowding in the student houses, without making each house into a frosh dorm.

The Admissions Committee is still searching for individuals to work on the minority programs. Rumor has it that there are enough applicants for positions on the regular Admissions Committee... Rumors that the California Institute of Technology is going to move to Helsinki, Finland, were vigorously denied by Institute sources via trans-Atlantic cable.

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

I'm told that the Exchange program with other colleges is moving forward. An exchange program in principle has been approved by the Faculty APC with respect to Oxy, IHC, and Scripps. Lyman Bonner tells me that if you know anyone in those schools who'd like to take courses here, tell them to start pushing, even if it's only karate.

Do YOU want a Mudeo? I find it hard to believe that "upperclassmen were nearly unanimous in support of it," as claimed in the BOD minutes of November 12. Actually, nobody I know wants to keep the stupid thing around. Down with the Mudeo!

The Coffeehouse

Coffee

Open

Sundaes

Nitely

Soda

9:00 PM

Hamburgers

- 2:00 AM



At the sign of the turtle

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Near Wilson

"GOODBYE, COLUMBUS" IS A VERY FUNNY, IMMENSELY APPEALING MOVIE: A THING OF REAL AND UNUSUAL PLEASURE!
Vincent Canby, N.Y. Times

GOODBYE, COLUMBUS

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THE Esquire 2670 E. COLORADO SY 3-6194 MU 4-1774

Letters
Continued

Continued from Page Two

decided to request a chemical test. This request, in turn, sufficiently incensed the officer to result in my immediate arrest. I was handcuffed and raced off to the nearest police station, where I submitted to a breath test, administered by the arresting officer himself, in the absence of witnesses. I was not given an opportunity to check on the reading of the test meter. This reading, I was told subsequently by the Commander of the station, would have justified a booking if the new law had already been in effect. A colleague of mine, who is a Professor of Chemistry at Caltech, has since assured me of the absurdity of the test result, which might have been caused by a faulty instrument. To be sure, a human error on the part of an irate policeman, eager to support an unwarranted arrest, is not to be ruled out either.

Yours sincerely,
Eli Sternberg
Professor,
Applied Mechanics

SPAIN REPLIES
TO EDITORIAL

Dear Sirs:

I find myself compelled, especially after the editorial of last week, to point out several gross errors made in the past by the editors, in particular one editor who probably wants to stay anonymous. His comments have not lived up to what journalism should be. He has been overly implicating, and his remarks strike me as ill-chosen and in ignorance of the facts. He does have serious points to make, but I fear they have been lost in the blither. I will try to recover them.

Whereas it is true that the ASCIT elections procedure leaves much to be desired, the last elections have probably been the best run in years. The objections presented last week contain only one valid point, the omission of a name in one section of the ballot. Everything was done to correct that error, including a new runoff. This other "garbage" about ballot boxes and running out of ballots, you will find if you check, is ridiculous. To wit:

1. Ballots in every house were checked by myself at 12:30, when I found that one house had run out three minutes before and another had just done so; when this was corrected there was absolutely no further problem. There were even three extra ballots in Louise Hood's and many more available.

2. The OC box was, indeed, closed, but for no more than one half to three-quarters of an hour. This was unavoidable and was corrected, though it might have changed the voting by as much as two (the reported number who didn't come back later).

3. Need I go on? It strikes me as much more constructive to point out the serious errors in elections procedure than to dump on the BOD. I want the whole thing redone, frankly, before the end of second term, and have suggested just that to the EX Comm, who's job that is. I would appreciate help on this because it is important.

I would also suggest that the Tech humor me to the extent of sending somebody to the BOD meeting. I personally have issued that invitation six or more times, and each time been ignored, and as

Continued on Page Five

Dan O'Neill
D
BODKINS



Montoya A Hit; Party Disappointing

by Alan Lederman

Those who long to strike out on their own and do the unusual need have gone no farther than Pasadena this weekend, for Beckman auditorium was transformed by way of music into the gypsy camp of the guitarist Carlos Montoya.

Montoya's music transfixed 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 rhythms of Montoya were vibrant and scintillating, but never brash. Each tremolo of his guitar emphasized another nuance of the varied repertoire of Flamenco. He quickened the pulse of the audience and carried it to a peak of exuberance which could hardly be reached by the more quiescent art forms.

Flamenco guitar, originally merely an adjunct to a dance, has been elevated by Montoya to an established art form of its own. And quite a powerful form it is. Few 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 broad appeal? It is because all men long to be 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 his own feelings for both the essence of the Spanish love for life and the gypsy love of individual freedom.

Party!

The reception following the concert was a somewhat disappointing affair. After such an effulgent performance followed by the stunning conclusion (two standing ovations were given), any extrapolation 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 having an informal discussion of his life as an artist and 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 and informative manner because of Montoya's lack of fluency. A translator of Spanish was available, although this removed Montoya from the group one additional level rather than bringing him closer.

Despite the shortcomings of the reception, though, 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 sincere. And, of course, the reception was not entirely without interest. One learned that the greater part of Flamenco art is and intuition and feel, 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 improvise appropriately. Reflecting on the concert, one can recall 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 more student participation in the Beckman events, everyone will benefit to no 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-in seminars, a major address in Beckman Auditorium, as well as an Olive Walk Talk. Tuesday and Wednesday Unruh will turn into a listener, sitting in on briefing on subjects concerning the future of the University. Mr. Unruh 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
 7. *Autobiography of Malcolm X*
 8. *An American Melodrama* - Chester, Hodgson, Page
 9. *Between Parent and Child* - Ginott
 10. *Airport* - Hailey
- HARDCOVER**
1. *Portnoy's Complaint* - Roth
 2. *The Godfather* - Puzo
 3. *Ada* - Nabokov
 4. *Between Parent and Teenager* - Ginott
 5. *The Peter Principle* - Peter and Hull

Beckman Schedule
For Rest Of Term

by Pearl Fles' & Bruce Britton

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 Caltech 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.

Mr. Basil Davidson is a visiting lecturer in African studies. He will lecture on "The African Heritage of the American Black Man."

Nana Mouskouri, who has toured with Harry Belafonte, will sing folk songs and ballads. She will sing in six different languages, including her native Greek.

The Henry Miller film, made by Oscar winner Robert Snyder, will feature a biography of Henry Miller. Also, Miller will be shown visiting old friends like Lawrence Durrell, Anais Nin, Alfred Perles, Buckminster Fuller, Jacob Gimpel, and Marcel Marceau in Paris and Brooklyn. This film has had good reviews from several newspapers, among them the *London Times*.

Admission to the Caltech Lecture Series is free; no tickets are needed. Tickets to the Mouskouri 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
Student Tickets For
New York City Opera

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 Nov. 30 at 8:00 p.m.; for Puccini's "Il Trittico" (composed of "Il Tabarro," "Suor 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 849-1428 (Mrs. Jorgensen).

**DABNEY CHAMBER MUSIC SERIES
TO PRESENT DUO HARPISTS**

On Sunday, November 23, at 8:15 p.m. in Dabney Lounge of the Humanities Building, Duo Harpists Paula Schertzinger and Stanley Chaloupka will give a concert in the continuing Dabney Lounge series.

Included in the program will be Sarabande from "Sixth Cello Suite" (J. S. Bach), Cubana (M. DeFalla), Nocturne (I. Philipp), Ritmo from "Dances Andalouses" (M. Infante), American Suite (Traditional) and Le Tombeau de Couperin (M. Ravel). These concerts are free and the public is cordially invited; get there early to be sure to get a good seat.

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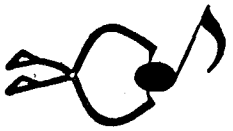
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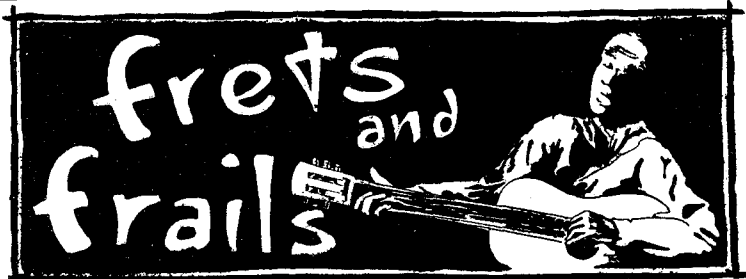


at the ICE HOUSE

Thru Nov 23
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BILL GALLERY
TO PEOPLE**

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Nov 25 - 30
**THE DILLARDS
MARY McCASLIN**



This review, I've got a surprise for you. The program is still on, so you can actually see it after the review! Aren't you thrilled?

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, Donovan, Joe Smith, Hoyt Axton, and others. To People were (was?) pretty good, but nothing spectacular. They were best on songs 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 but obscure folk songs, as well as some written more recently. He did one by Jimmy Driftwood called "the Tennessee Stud," and two by Woody Guthrie, "Coal Mine Talkin' Blues" and "Tom Jode." Those few of you out there who are literate may have guessed that the latter was based on Steinbeck's *Grapes of Wrath*. This material is the sort that brought about much early work by Bob 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, since one was lead singer for the Four Preps, and the other lead singer for the Diamonds (remember them). In addition to being good singers, they are both slightly insane comedians. They throw Rowan and Martin-type repartee into their act, but only where it will fit without straining the music too much. They did songs like "Girl from Ipanema," "Simple Song of Freedom," and "Aquarius." They closed the show with "Draft Dodger Rag," after grossing out their drummer during the lead-in. I really liked Belland and Somerville, and I think most of you will, 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 from the student houses. There is no age minimum, no minimum purchase, and only \$1.50 per person admission. They have food and drinks, alcoholic and non. In all, it's a good place to go. So go.

-Nick Smith

Gell-Mann

Interview

Continued from Page One

Dr. Gell-Mann seems the proverbial exception to the rule. He counts Oriental cultures and languages among his many interests. We had lunch with him at a Cantonese restaurant in Los Angeles, and the experience of having our lunch ordered in Cantonese - by Dr. Gell-Mann.

Apparently, Orientals are often oblivious of the etymology of their own languages. For example, some Japanese have been totally taken aback when Westerners have told them that a certain Japanese word is actually a combination of two other Japanese words!

Nobel Deed

Nobel prizes are awarded by a torturous process. Nominations are made by committee for each category. The Caroline Institute awards the Prize for Physiology and Medicine; the Swedish Royal Academy of Sciences awards Prizes in Chemistry and Physics. The Literature award is given by the Swedish Royal Academy, and the Peace Prize is given by the Parliament of Sweden.

Finally, they are announced, usually at an hour (such as 3:30 a.m.) designed to cause maximum chaos in the life of the recipient.

Feynman Strikes

Dr. Gell-Mann won another prize, which he says he values more than the Nobel Prize. This prize carries no cash award, and is not given on any sort of regular basis. Rather, it was the statement by Dr. Richard P. Feynman which ran in the *Tech* of two weeks ago in which Feynman credited Gell-Mann with being in on "every advance in fundamental physics in the last twenty years."

Perhaps most significant, Feynman went on to say, "If further confirmation is needed that some scientists can be as sensitive and as active toward human problems as any humanist, we are proud to exhibit Gell-Mann." Indeed we are proud.

Ramparts Reprint

The Black Moochie

Editors' Note: This is the first of three excerpts from part two of The Black Moochie, a novelette by Eldridge Cleaver. 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 stirred during the day except the tortured housewives, salesmen, milkmen, mailmen, occasional policemen, little children, and the hustlers. I wasn't really hitting on anything. I was far from 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 caught up in anybody's program or plan. In those days the world looked like a huge, swiftly spinning merry-go-round. And I was not on 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 lying on my side, on the grass 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, inside the City Hall, a huge room which I called, for whatever obscure, private reason, "the Map Room." In the Map Room, in the center of the Map Room, was a large table on which there was a big, ten-layer cake in the shape of Los Angeles County. Gathered round the table were 13 fat, greedy white businessmen and politicians. The Mayor, City Councilmen, County Supervisors, the Police Chief, the Sheriff, the President of the Chamber of Commerce and a Cardinal. The President of the C of C wielded the knife. A Negro in a khaki uniform, well starched and tailor-made, stood beneath the table with a broom and dustpan, catching the crumbs and dumping them into a large stainless steel barrel. His job was to see to it that not a crumb hit the floor. His incentive was that all the crumbs he caught belonged to him; he could take them home to his wife and 69 children.

"Cut me a larger piece," the Mayor said in a whining voice. He was hunched up to the table, an unctuous look on his face.

"If I give you a larger piece," said the President of the Chamber of Commerce, "there won't be enough to go around."

The President continued slicing up the cake, working swiftly, shoveling it out. He gave a huge slice to the Chief of Police and a smaller slice to the Sheriff. The Sher-

iff wore a sullen look, but he didn't speak out in protest as the Mayor had; he drew up into a tight little knot and slinked off into a corner to gobble down his share. He looked around craftily, as if he had something up his sleeve, as if he didn't have anything to worry about and would get even in the end.

Superimposed upon this picture, but down in the lower left-hand corner, was a scene of six Negroes crowded around a pool table, shooting pool. All wore sullen scowls on their faces. The jukebox blared the blues in the background. A girl, naked except for a red ribbon through her hair, huge golden earrings and another red ribbon worn lasciviously over her vagina at right angles to her cleft, and wearing red high-heeled slippers twisted and turned to the music, sending undulating waves of erotic rhythm through the room. The pool player whose turn it was to shoot 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 I could see myself, my father, my uncles, my brothers; I could see John, Bobby, Buster; I could see Joe Louis, General Banks. With a vicious succession of plunges with the cue, he sent the balls crashing into the pockets with thunderous cracks. Looking at the two pictures - of the Map Room in City Hall and the Pool Room in the City Dump—it seemed as if the movements of the people in each were synchronized. 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 cue. And every time Stella made a movement with her body, the Cardinal would sprinkle Holy Water over a guest, ring a little silver bell or wave the heavy, golden, jewel-encrusted crucifix which hung around his neck.

The Cardinal wandered perpetually through the Map Room, sprinkling Holy Water, smiling and waving his cross. When the President of the Commerce Chamber offered him a piece of cake, he looked offended and refused vigorously, thrusting the proffered slice of cake aside. He went on sprinkling the guests with Holy Water and ringing the bell. Everyone smiled, including the Chief of Police. Instead of giving the slice of cake which the Cardinal had refused to another guest, the President walked over into a dark corner to a little black table where a silver tray rested on an immaculate white silk napkin, and laid the slice of cake on this tray. It seemed like the natural thing to do, as if the table and silver tray had been placed there precisely for that purpose.

The Negro beneath the main table had his eyes on that juicy slice of cake. He felt that he had dibs on it. He resolved to wait until there was a lull at the main table, rush over, scoop up the slice of cake from the silver tray, and dump it into his stainless steel receptacle. Self-satisfied, he felt that he had a perfect plan. After waiting a bit, he decided that his chance had come. He laid down his dustpan and broom and was just preparing to dash over when he saw the Cardinal stop at the table, gently set his

Continued on Page Eight

Letters

Continued

Continued from Page Four

a result the *Tech* is very much unaware of the things going on around them. Even if they are "understaffed" I don't think this an unreasonable request. I also suggest that the editors read the minutes of Ex Comm, IHC and BOD (which at least one Editor told me he ignored) before telling us, and the students, just what is happening. There are legitimate gripes, that ought to be told, and not as nth-handed rumor or just plain nonsense.

I hope these comments will be taken as constructive criticism. I also hope that the *Tech* will avoid mud-slinging in the future until it is very sure of its facts, and please save such gibbering for what really deserves it; otherwise there is no way to avoid a possibly far worse situation.

-Glen Spain
Director at Large

Ed. Note—We do not understand the first paragraph of Mr. Spain's letter, other than to note that it received failing grades on the points which it brings up against editors. The person who wrote the editorial, and is writing this note, Ed Schroeder, has no wish to remain anonymous, and in no way regrets or retracts his comments of last week, despite the invective thrown around by Mr. Spain. Let me (to dispose of the editorial we) discuss Mr. Spain's points (?) in order now.

The ASCIT elections procedure certainly leaves much to be desired. As a senior I may tell Mr. Spain, a sophomore, that elections two and three years ago, especially the latter, were run far better than the present ones (other than the notorious election which Joe Rhodes forgot to have). The objections last week contained three valid points, the one Mr. Spain cites, and the ones about the O/C box and the Elections Chairman, and if Mr. Spain would read the By-Laws and Resolutions (Resolution III, Sec. 3a) and f) to be precise) he would not, I trust, have made such a blatant lie. Mr. Spain's idea that it's all right to ignore laws if you only do it for a little while seems to me a poor way for a presumably responsible officer of the Corporation to conduct himself.

I have in fact been pointing out errors in elections procedure; presumably what Mr. Spain wishes me to do is point out the problems within the regulations governing elections. I agree, there are many such problems. I only hope that ASCIT is nice enough to correct them legally before ignoring them.

The matter of *Tech* coverage of the BOD meetings is an entirely different point, and has little to do with our knowledge of what is going on around us. As for that, I would like to say that I was in Winnett Center all day the day of the election, if that comment was meant as a slap at my sources of information about the election, and speaking of general performance as to whether the BOD or the *Tech* knows more about how ASCIT members feel, I take this opportunity to point out that no Techer other than Mr. Spain has spoken to me against my editorial, but many have praised it to me. If the Minutes of the meetings of the BOD are accurate we should not be "very much unaware" of what the BOD is doing. I agree that reading the IHC, Excomm, and BOD minutes would be good, although I also feel (having been to many BOD meetings in the past) that asking anyone to attend a BOD meeting is an unreasonable

Continued on Page Six

THE MUSEUM
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PASADENA

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

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Letters Concluded

Continued from Page Five

request. As for Mr. Spain's closing gibberish, need I go on?

Dabney House Interhouse Policy Statement

Dear Sirs:

Dabney House will not be participating in the 1969 Interhouse Dance. Our decision not to participate was arrived at by fair and democratic means and represents the wishes of the majority of the members of our house. This being the case, I feel no need to defend that decision to anyone.

We realize that this decision is a considerable break with time-honored custom and, as such, is certain to place us at odds with those more observant 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 desire to burden future Dabney House memberships with a tradition of Interhouse non-participation is expressed. We hope that this question will be examined on its own merits on an annual basis; we feel it preferable to view the question of participation 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 prevailing opinion at this time is simply that there are more fruitful ways to spend our money and our time.

—Frank Zdybel
President, Dabney House

Booth

Continued from Page One

and Seismo Lab terminals will communicate via a dataphone. Terminals at the ten colleges will be multiplexed together at the different campuses and then transmitted over telephone company leased lines to the Caltech campus.

The off-campus 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 additions have already been 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 currently installing the cables. The off-campus leased lines are now being checked by the company supplying the multiplexor units. 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 *California Tech*, Charles Ray stated that work is being done on all of the terminal lines and that each terminal would be brought on-line as soon as it is ready. He did not give a firm date for installation of any of the on-campus terminals, as much depends on the amount of work that Physical Plant has to do.

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 at all about their few 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 which time 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 many useful books and memoranda. 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, Vroman'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 procedures to your maximum advantage, you should subscribe to "Counterdraft," a magazine started by Bill Smith, the leading draft attorney in L.A., which can be ordered by writing the Counterdraft Committee of Peace Action Council, P.O. Box 74881, L.A. 90004. There are ten issues per volume, the latest being Volume 2-No. 5. All of Volume 1 can be ordered for \$2; a subscription to Volume 2 (which includes all back issues of Volume 2) costs \$3. For those individuals with particular problems, Caltech has retained a draft lawyer, Peter Marx, who is supposedly available the first and third Tuesday of each month in 151 Crellin at 7:30 P.M. We feel that one of the most useful things a Student House can do for its members is establish a Draft Information shelf in its library or lounge, 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 this column which each week will present some aspect of the draft law which should be of use to Caltech students. We would appreciate any questions, comments, corrections or indications of confusion.

Moratorium

Continued from Page One

speeches. Dr. Harmon Gehr read Mark Twain's "War Prayer," a parable dealing with the inequality demanded from God when praying for victory in war. At its completion, all of the people stood, holding lighted candles. A bell was rung for the Pasadena area war dead and a silent vigil was held for these dead. After a time of silence, the rally ended with all of the people singing "Give Peace a Chance."

Smith

Continued from Page Three

delayed the project for two years, officially.

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 kill off all of humanity without firing a shot is disturbing.

I have no idea of how to convince the government of the true dangers of unlimited, total war. To a government that buys over a thousand tons of nausea gas per year, producing one vial of germs would seem minor, and yet the vial might kill more people than our entire nuclear stockpile. 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.

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- (2) By means of the registration of energy converted and consumed, make possible a balanced load.
- (3) Provide a continuous inventory of all production and consumption.
- (4) Provide a specific registration of the type, kind, etc., of all goods and services, where produced, and where used.
- (5) Provide a specific registration of the consumption of each individual, plus a record and description of the individual.
- (6) Allow the citizen the widest latitude of choice in consuming his individual share of Continental physical wealth.
- (7) Distribute goods and services abundantly to every member of the population.

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- Guarantee of Security

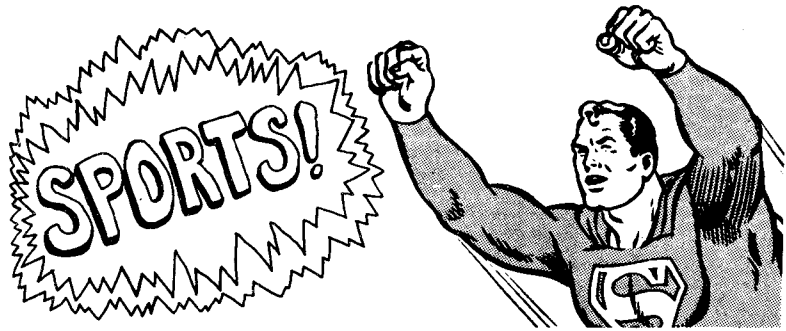
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FOR FURTHER INFORMATION ON TECHNOCRACY YOU MAY CONTACT:

11833-5 Technocracy Inc.
P. O. Box 72
Lynwood, California 90262

11834-16 Technocracy, Inc.
North Hollywood, Calif. 91606
6327 Lankershim Boulevard
Phone: 787-1333



Run for Your Life

Tech 8th in NAIA Run

by Martin T. Smith

Caltech's cross country team finished 8th Saturday in the N.A.I.A. District III Cross Country Meet. The top Caltech finisher was Martin Smith, who completed the 5.0 mile course in 27:34 for 36th place. Close behind were Ratch Higgins (38th, 27:41) and Gary Pope (43rd, 28:03). After a gap, the rest of the team finished in good order, with Almquist, Hermeyer, Reichel, and Tardiff closely spaced in 58th, 59th, 60th, and 63rd, respectively.

Westmont Dominated

A powerful Westmont team dominated the race, taking first, second, third, fifth, and tenth, to win with 21 points. Occidental took second with 63. Today's Caltech foe, U.C. at San Diego, took 6th.

Beldon Burch took first for Westmont in a fantastic 24:04, with superfrish teammate Chuck Smead a few seconds back. They set a fantastic early pace, dragging Smith, Higgins, and Pope through the first

mile in 5:18, with Tardiff even faster at that point. After the first mile, the fast early pace began to tell on many runners, and Smith, Higgins, and Pope picked up many places in the last half of the race.

Caltech Ends Season Today

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.A.U. and all-comers meets in the area, including a 10 mile handicapped race at Brookside Park on Sunday, November 30th.



Freshman quarterback Bob Bales runs for daylight.

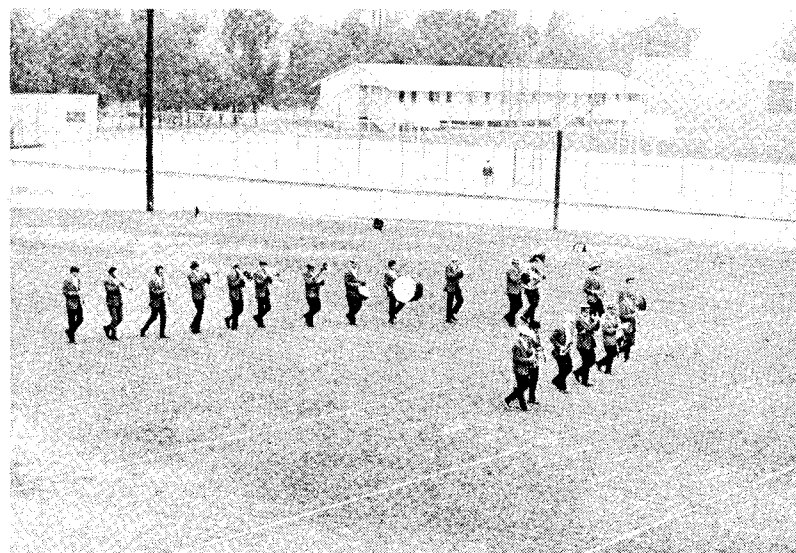
—photo by Fisher

Harriers Take Fifth in SCIAAC

Occidental and Redlands dominated the S.C.I.A.C. All-conference cross country meet at Redlands Saturday, November 8, with Oxy continuing its long winning streak. Whittier showed up quite well, taking third with 65 points. Caltech found itself narrowly edged by Pomona 105-113, and CHM brought up the rear.

Alan Rude took first for Oxy, with Adrian Jones second for Redlands. Oxy then took 3rd, 5th, 6th, and 11th to sew it up with 26 to Redlands 35.

Higgins took 17th for the top Caltech place, followed closely by Pope (19th) and Smith (20th). Tardiff (28th) and Almquist (29th) provided the rest of Caltech's points.



The Caltech Band marches abreast down the field during halftime festivities at last Saturday's game with Occidental.

—photo by Fisher

Boosts Spirit

Band Has New Look

by Sam Insana & Kirby Fong

This year's Caltech Band has improved greatly in quality, size and spirit. The many new freshmen and graduate students have been a key to this, the Band's most successful season in many years. The first indication of the good things to come was the especially well-received concert by the freshmen at New Student Camp. Later, not content merely to sit in the stands at football games, the Band decided to experiment with half-time productions.

The enthusiastic reaction of the crowd at the homecoming game against Pomona drove the Band to produce a bigger and better extra-

vaganza for the Oxy game. The shows were written by a committee of Bandsmen who were high on the idea of reaching the Tech mind. During the hard-fought game against Oxy, the Caltech Band extended its winning streak against opposing bands.

Besides performing at football games, the Band has also presented a light outdoor concert for the homecoming day picnic and provided processional music for Dr. Brown's inauguration. A Disneyland concert last Sunday was the highlight of the month's activities. The Band now looks forward to its concert season and sees even more spirit and enthusiasm from members and listeners alike.

Beavers Look Good But Lose to Oxy 29-7

by Richard Short

The Caltech football team was defeated by Occidental 29 to 7 Saturday in Tournament Park in what was probably the best game the Beavers have 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 396 yards and a total of 500 net yards gained. The winners, who had 20 first downs, scored three of their four

touchdowns on passes of 80, 24, and 9 yards.

Five interceptions by Occidental defensive backs did much to hurt the Beavers' chances.

Mike Brennen scored the Caltech touchdown on a one yard run in the third period. Dennis Pocekay kicked the extra point. The score was set up by a 34 yard pass play from Bob Bales to Bob Vance that put the ball on the Occidental 10 yard line.

The Beavers threatened to score several other times. They were inside Occidental's 10 yard line three times but were halted either by lack of downs or penalties.

Occidental scored 7 points in the first period, 15 in the second, and 7 more in the final quarter.

The Beavers play host to the Claremont-Harvey Mudd squad to morrow, Friday, at 1:30 p.m. in the final game of the 1969 season

Water Polo Team Rips Pomona, SF State

by Mike Stefanko

Tech had two up and down weeks, as their fortunes were alternately raised and dashed. Wednesday, November 5, Tech traveled in the dismal weather to Oxy. They met an aggressive Oxy team, who capitalized on Tech's poor playing. Despite the Oxy dominance of the play, Tech refused to let them pull ahead in the score until late in the fourth quarter. With four of the first string out, Tech couldn't prevent a final Oxy score, and lost 6-5. The following Saturday, Tech completely outplayed a quick, but sloppy squad from San Francisco State. Tech's ever improving offense piled on the points for an easy 7-3 win.

This was followed by Tech's best game of the season against Pomona. The outcome was never in doubt as the offense and defense both worked to perfection in powering to an 8-3 victory. But it wasn't the same team Friday, as CHM once again proved its mastery over Tech. The Tech team was physically mauled by CHM's rough style of play. Being more used to an open game of skill rather than a tight struggle, Tech gave up a 3-3 deadlock in the fourth quarter and lost. This was followed by a long trip to the "boonies"—UC Riverside, where the referees play a different game. A tired Tech team let an alert UCR squad have a lopsided win.

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 JV's, the Redlands Frosh, the University of San Diego, Palos Verdes College, Claremont-Harvey Mudd JV's 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.

BIG SALE
CAMPUS SURPLUS PROPERTY
 Office furniture and other items of general interest will be on sale Saturday, November 22, 1969, 9:00 a.m. to 5:00 p.m. Come to the Old Steam Plant (off Throop Alley) and/or 302 Throop.

WANTED
Waiters
 for the Caltech Coffeehouse
 \$1.50 / hour — Late Shift
 contact any Coffeehouse Manager
 1101 San Pasqual

NOTICE
 Chandler Dining Hall will be closed November 27 and November 28
 Chandler Dining Hall will be open November 29 and November 30 11:30-12:30 and 5:00-6:00
 The Athenaeum will be open for Continental Breakfast 7:30-9:00 November 27, 28, 29, 30

SPROTS MENU
 by Brussel Sports
 Thursday, November 20, 1969
 CROSS COUNTRY, at University of California, San Diego, 3 p.m.
 Friday, November 21, 1969
 FOOTBALL (FINAL GAME OF SEASON), Claremont-Harvey Mudd here at 1:30 p.m.
 Saturday, November 22, 1969
 UNDERGRADUATE SOCCER, vs. Biola, here, 10 a.m.
 VARSITY WATER POLO, vs. Oxy, here, 10 a.m.
 JV WATER POLO, vs. Oxy, here, 11 a.m.

Eldridge Cleaver

Continued from Page Five

Holy Water and bell down, reach beneath his red tunic, pull out a plastic bag and with a few swift motions scoop up the slice of cake. In one continuous motion, 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 about over so that he could be getting home to his wife and children.

On the wall, witty sayings:
God And I Are One — Cardinal Sparendtire.

Let Them Eat Cake — Marie Antoinette.

God Uses Cost Accounting In His Battle With Satan — Charlie Wilson.

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Thought Dynamics.
For appointment and further information call Mr. Condie.
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2 Bedroom 2 Bath
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House available for Leasing December 1969-October 1970 Room for 2 children. Furnished. Postdocs preferred—if you are one, or know one who might be interested, call Bruno Turi, Geology.
Ext. 2110 or 2101

EARN MONEY WHILE AT COLLEGE!

Wanted—campus representative for large tour operator specializing in student/faculty trips and charters, etc. Please phone (213) 272-8423 for details.

NOTICE

Under the new bill which is being considered by Governor Reagan, stating that Topless - Semi Nudity - Complete Nudity entertainment will be left up to the adult people of the community, The HI LIFE (1758 E. Colorado) is now conducting a poll to find out what the adult people of Pasadena want to see as entertainment.

We would like you to express your opinion by voting at our Private Ballot Box at the Hi Life. Then we will be able to give you the type of entertainment you want without offending anyone.

All Three Types of Entertainment are being shown daily to help you decide the type of entertainment you want, thank you.

HI LIFE

1758 E. Colorado Blvd.
Pasadena, Calif.

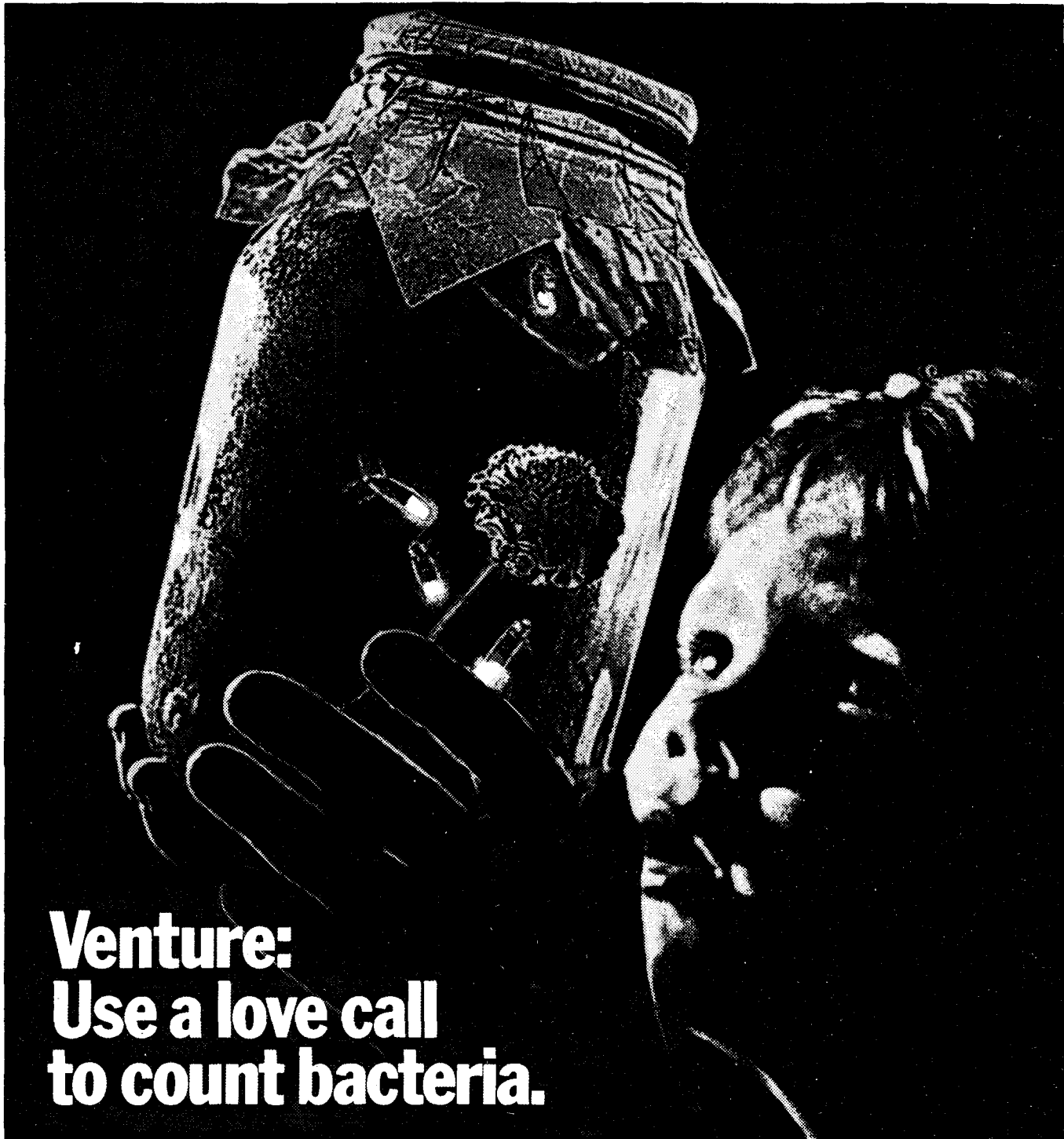
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Venture: Use a love call to count bacteria.

The *lampyridae* beetle family. Delight of small boys. Biological light bulb. And prime source of raw material for another Du Pont innovation.

Luciferase, an enzymatic protein with intriguing properties, obtainable only from fireflies. *Luciferin*, an organic molecule also found in fireflies, but synthesizable. *Adenosine triphosphate* (ATP), a common energy-yielding substance found in all living cells.

Those are the three main ingredients in *lampyridae's* love light. And because ATP is common to all living cells, university researchers discovered they could produce an

artificial glow by mixing luciferin and luciferase wherever life is present.

Noting that phenomenon, Du Pont scientists and engineers went on to develop it into a practical analytical system. Correlating the intensity of the artificial "glow" with the amount of ATP present in bacteria, they designed a means of measuring the reaction.

The result is the luminescence biometer—the first really basic improvement in bacteria-counting methods since the time of Louis Pasteur. Rather than waiting days for a culture to demonstrate growth density, a doctor or technician can

now get a digital readout of bacteria concentration in a matter of minutes.

Other potentially lifesaving uses for the biometer are being suggested every day—such as diagnosing metabolic rates, enzyme deficiencies and nerve damage.

Innovation—applying the known to discover the unknown, inventing new materials and putting them to work, using research and engineering to create the ideas and products of the future—this is the venture Du Pont people are engaged in.

You can become one of them, and advance professionally in your chosen field. See your Du Pont Recruiter. Or send us the coupon.

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