

# Dwight Carey, Bob Durst Conquer Southwest Face of Millikan Library

by Peter Beckman

A new chapter in the saga of building climbing opened last Friday night when Dwight Carey and Bob Durst of Rickettes House ascended Millikan Library. While others have gone down the building, this was the first time that anyone had managed to climb up more than a couple of stories.

The ascent began along the south face of the section which houses the staircase, shortly after seven p.m. Using a grappling hook device which was inserted in the holes of the concrete ventilation grilles, the climbers slowly ascended the wall.

After getting past the first hurdle, the long climb to the first grille, progress was steady until the top grille was reached. This was glassed in and there was no way to insert the hook. Finally, a rope was lowered from the top and the climbers pulled themselves up to the roof.

Carey reached the top at 10:40 and Durst followed about a half hour later. They were greeted by a rather large reception committee of fellow Scurves, newspaper trolls, and random curiosity seekers who crowded on the small section of roof or sat nonchalantly on the cornice. Three bottles of California champagne completed the occasion.

Carey and Durst decided to climb Millikan because no one had been known to have attempted it before. The article on building climbing in the Star News spurred their interest and they decided to try Millikan before someone else beat them to it.

They planned the climb for over a month. After carefully checking the outer walls for possible routes, they built the equipment that they needed. Although the plans for the climb were semi-secret, several persons in the administration knew of the plans. They suggested that it be

done at night rather than during the daylight hours. Campus Security noticed one practice for the climb but did nothing.

Although they like to climb, Durst and Carey claim it is not their favorite hobby. Carey prefers hiking and Durst likes fishing. They are members of Caltech's currently nonexistent Alpine Club, under whose auspices the climb was made. Carey is an experienced building climber while Millikan was Durst's first ascent.

Preparation and safety are 90% of any climb, according to Carey and Durst. Too many climbers run into trouble because they attempt a climb on the spur of the moment, ignoring even the most basic aspects of safety.

While the two are unsure of what their next climb will be, they will no doubt try Millikan again for the challenge of reaching the top completely by themselves.

## The CALIFORNIA Tech

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Pasadena, California, Thursday, February 11, 1971

Number 17

# EARTHQUAKE SHAKES UP CALTECH CAMPUS

*Happy Birthday L. Terry*

## Tech Weathers Bomb Scare

by John Fisher

Last Thursday morning, while the *Tech* was being printed, Caltech received its first and only bomb scare of the week. Yours truly, being up (for immoral reasons) at 3:00 a.m., happened to pass by Winnett Student Center and found Campus Security guards, B&G trolls,

and Pasadena's finest, crawling all over the building, opening doors, crawling around on their hands and knees, peering under shelves and bookcases. Naturally, this sort of cloak and dagger intrigue captured my interest, and I investigated.

At 2:10 Thursday morning, Ken Elwell, head of the campus book-

store, received a phone call at his home from a man who said he was going to blow up the bookstore in two hours. A short time later, Lowell Peterson of Graphic Arts received a second call, in which the caller claimed that in addition to the bookstore, he was going to blow up the basements of Parkinson and Spaulding.

These two individuals were obviously kind of upset, so they made calls to the appropriate people. Ken Charles of Security

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by Paul Levin

What would you do if your bed started moving around at 6:00 a.m.; Hang on for dear life? Go to the bathroom? Go back to sleep? None of the above?

Tuesday morning Southern California experienced its worst earthquake in many years. Damage in Pasadena and the surrounding areas cannot even be estimated.

The shock was so great that freeway overpasses collapsed and one water reservoir had to be drained. Pavement buckled, fires started, plate glass windows crashed to the sidewalk, and electric power went out. One TV station in Burbank, KNBC, had to broadcast from its mobile unit because there was no power in the studios.

For all its pre-eminence in the

geological sciences, Caltech and its Seismological Research Lab had to take a back seat to the scientists at the University of California at Berkeley. The seismographs at Caltech's lab were pinned because the whole building was shaking! Apparently the quake centered in the vicinity of Newhall, at the upper end of the San Fernando Valley. Its strength was around 6 or 6.5 on the Richter scale.

Caltech did not escape damage. Throop Hall, long considered an earthquake hazard, weathered the quake as well as could be expected. Its worst damage was some cracked plaster and a broken light fixture. Other campus buildings, including the almost-new Business Services Building, suffered plaster damage.

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## News Briefs

## Joint Concert Planned

The Caltech Glee Club will sing a joint concert with the Arroyo Singers this coming Sunday evening, February 14, at 8:00, at the Neighborhood Church.

The Arroyo Singers is a group of 30 women, including the wives of Caltech professors Richard Feynman, Murray Gell-Mann, Steven Frautschi, Herbert Keller, and Brock Fuller. Each group will sing from its own repertoire, then will combine for a selection from Brahms *Requiem*, "How Lovely Is Thy Dwelling Place." The Neighborhood Church, (that's its official name), is located at 535 S. Pasadena Avenue (between Fair Oaks and Orange Grove), at the corner of California Blvd. Admission is \$2 and \$1 for students.

### Second Math Club Meeting Probable

The Math Club will have its second meeting of this academic year on this Thursday night. Dr. Lorden will talk about probability, starting at about 7:30 for about an hour and a half. As usual there will be refreshments served after the talk, and all are invited. The

meeting will take place in the math lounge on the third floor of Sloan.

### Area Notebook In Winnett

In an effort to help students keep abreast of happenings in the surrounding area, "The Southland Scene," a notebook of clippings and announcements, has been compiled and placed in Winnett Lounge by the Caltech Service League. It will be kept current by Mr. Robert (Mary) Gray, with the help of Louise Hood.

### Women Hold Second Meeting

Women For Social and Political Action will hold their second meeting on Tuesday, February 23 at 8:00 p.m. in Clubroom I of the Winnett Student Center. Come to the meeting and find out about: a proposed day-care center, a price survey of Pasadena area food stores, political activity in the Pasadena area, and the plans of the ecology group. Call 795-0012 or 793-0957 if you have any questions.

Continued on Page Four



TILT! Now, Frosh, for the problem of forced harmonic oscillation: given a force of 6.5 Richters, and a phase delay of 180 degrees between wall and shelves, how long will it take to pick up all of the books?

—Photo by Ctein

Letters

# Suber Surprised; Reader Dismayed

Gentlemen:

My birthday began last Thursday morning at approximately 2:15 a.m. when I received a call from Central Plant saying there was a threat of a bomb in the bookstore. I arrived on campus a few minutes later. My first contact was with John Fisher coming out of the photographic lab. He caught me trying to get into Louise Hood's office to use the telephone. I remained on campus until after 4:00 a.m. which supposedly was the time the bomb was to have gone off.

Thursday I was scheduled for a special hearing in Los Angeles so I left the campus at approximately 8:30 a.m. I gave testimony and was cross-examined until after 4:30 p.m. It was around 5:30 when I arrived back on campus feeling very tired and somewhat discouraged. I almost did not stop in my office, but for some unknown reason did so anyway. When I reached my desk, your paper was open to the full-page "Happy Birthday" greeting. I cannot adequately describe what a terrific lift this gave me. It was certainly a gesture beyond my wildest imagination.

This is simply a feeble effort to say "Thank you" with my deepest and most sincere appreciation.

L. Terry Suber

Dear Editors:

I could not help but be impressed by the egregious paucity of newsworthy news in the last issue of the *Tech*, and in retrospect, in most of the *Tech's* columns these past two terms. I realize that much of the *Tech* is devoted more to "cultural affairs" than to political and/or controversial topics, but there are many issues germane to the welfare of the Caltech campus which appear either to be neglected or not recognized by the Editors. The grading system, the notable absence of Dr. Brown from the campus, the obvious bars against the faculty appointments of women at Caltech are only a few of the issues which ought to be brought to the

fore.

Putting a newspaper together does not only involve reporting big events after they happen or announcing their coming. It involves introducing important, thought-provoking ideas and little-known goings-on to the paper's readers.

I wish to remain anonymous.

*We do not make a habit of printing anonymous letters, however, we feel that this one deserves some reply.*

*If the writer of the letter above has opinions about the grading system (which has been extensively discussed in our columns), our president, our faculty, or any other thought-provoking ideas and little-known goings-on, we invite him, or anyone else for that matter, to write an article about it. Or better still, join the staff and write about it regularly (we offer the use of a pleasantly air-conditioned office with telephone and graft and corruption privileges, plus three units of credit for taking English 15 (Journalism) to staff members).*

*We would like to be more and do more, and we would but for the limitations of time and manpower. You can help by contributing articles, which we would be more than happy to print. Letters to the editor and contributions to the Caltech Forum provide alternate methods of having whatever is on your mind appear in our columns. And of course, if you want to join the staff, we'll welcome you with open arms.*

*We cannot think for you, nor would we want to even if we could. We cannot express opinions for you. The paper is not the private domain of the editors or the staff; it is a service to all members of the community. Only you can guarantee its effectiveness as concerned and vocal readers. Express yourself. We will, within the limitations of the laws of libel and of English grammar, print any expression of opinion directed at us.*

-The Editors

## NOTICE TO ASCIT CANDIDATES:

If you wish to have a statement published in next week's *California Tech*, make sure that a typed copy of your statement has been turned in to the Tech office no later than 6:00 p.m. Monday. Under no circumstances will we accept hand-written or late copy.



## Selective Service Claims

# "Liberal Image"

by Mark Peterson

The Selective Service System has undergone great changes in the last year to reduce the opposition which has made the draft virtually unworkable. In addition to adopting a new, "liberal" image, Selective Service has concentrated the threat of being drafted on a small group of men selected by their lottery numbers in order to free other men from worrying about the draft. This policy seems to assume that men who are not afraid of the draft will not be as opposed to it, or to the uses to which the draftees are put, i.e., the war in Asia.

In order to insure that those men with high lottery numbers will be "safe," Selective Service is trying to make sure that all men with low lottery numbers will be drafted. This is being done by the elimination of all deferments and other "loopholes" now open to men whose numbers are called. In April 1970, Nixon abolished fatherhood and occupational deferments. At that time and again last month, Nixon also asked Congress to allow him to abolish student and apprenticeship deferments.

If Congress agrees, Nixon will take student deferments away from freshman men who now hold those deferments, and all other men who enter college after April 23, 1970. Nixon has also asked for an end to the deferment given to ministers and ministerial students. The only remaining deferments will be for physical, psychological, moral or political unacceptability (the 1Y deferment), or for conscientious objection or hardship. Hardship deferments are almost impossible to get, and draft boards seldom grant conscientious objection classification. Therefore, if Nixon's proposals are adopted, a man who cannot get a 1Y deferment will be drafted when his lottery number is called.

### Make It Hard

Selective Service has also tried to make it more difficult for men to get the one deferment which will still be available, the 1Y "physical" deferment. Under new regulations, a draft board can find any man who misses a re-induction physical examination to be physically acceptable for induction. Even if a man is sick on the day of his pre-induction physical, the draft board will not give the man another physical. He will be "examined" when he reports for induction, but if he feels he should be found physically unac-

ceptable, he can only choose to refuse induction.

Selective Service has adopted another regulation which permits draft boards to refuse to transfer pre-induction physical examinations. Men have been establishing residency in other cities in order to transfer their pre-induction physicals away from such places as the Los Angeles Armed Forces Examining and Entrance Station. Rather than removing the need for transferred physicals by giving adequate examinations at such places as Los Angeles, Selective Service is trying to force men to take their examinations where they will most likely be found acceptable for induction even if they have disqualifying medical problems.

### Not Safe

Finally, induction calls during January show the full effect of the lottery; once your lottery number is called you will be safe from induction only when you reach the age of 26. Despite the fact that the lottery was to limit a man's vulnerability to the draft to one year, Selective Service invented the "extended priority induction group" to extend a man's liability to the draft past that year if his number was called.

Earlier, men who were placed in the extended group were told that their liability would only be until April 1, 1971 and that they would never be drafted if their lottery number was not reached before that time. In fact, January draft calls showed that almost every draft board has already called all numbers in the extended group. Furthermore, if you are in the extended priority selection group and you are not drafted because you are appealing or are now deferred, you can be drafted after April 1, and at any time until you reach the age of 26.

### Good Deal?

Although many men are pleased with the lottery because they are now safe from the draft, they should realize that they are safe only because other men can never be safe from the draft. Those men will be faced with leaving the country, prison, or being drafted to fight a war which kills or injures one of every four draftees in Viet Nam.

If you have any questions you would like discussed in this paper by a draft lawyer, write: Mark A. Peterson 1627 West Washington Blvd. Venice, California 90291

## ASCIT Abounds With Offices but Candidates Are Few

by Alex Seita

Today, the ASCIT Board of Directors meets at 12 noon in the dining room of Page House to lament the scarcity of candidates filing for ASCIT offices. Tentatively, nominations for all offices that have at least one candidate will be closed at 6:00 p.m. today in Louise Hood's office in Winnett Student Center. As of 7:30 p.m., Tuesday night (2/9/71), only 10 people had applied for six of the fourteen offices: Alex Seita, Steven Watkins, Andrew Chow - President; Thomas Matoi - Treasurer; John Tristano - Secretary; Norris Krueger - Director of Student Life; Michael Mariani - Director at Large; P. Neches, P. Levin, P. Beckman - Tech Editors.

The eight offices which have no candidates are Vice-President, Director of Academic Affairs, Inter-house Committee Chairman, the second Director at Large position, Athletic Manager(s), Activities Chairman, Social Chairman, and Board of Control Secretary. Freshmen, take heed, at least one of the two Directors at large must be a freshman.

George Bernard Shaw stated, "Democracy is a system of government which insures that the people get exactly what they deserve." Assuming that democratic procedures are used in ASCIT elections, the student body because of its apathy will get exactly the kind of leadership that they deserve. Filing fees are \$4 and payable after today's deadline for nominations.

Those people running for ASCIT offices, especially if they are contested, are encouraged to prepare candidates' statements for the *California Tech*. These statements will then appear in the February

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## The More, the Merrier?

### Declare A Tax On People

by Malcom Handte

As Harrison Brown graphically illustrated Monday night, the Earth's ability to support many more humans than already inhabit it is of little solace to societies which find the problems of only three or four billion people almost insurmountable.

The circumstances which today threaten the future of civilized man, and possibly the species as a whole, are perhaps unprecedented. Among them are: staggeringly expensive and fearfully dangerous military rivalries; systemic, societal and personal-psychological breakdown under the impact of ever more rapidly evolving technologies; and an increasing awareness of and dissatisfaction with patterns of wealth distribution, both in this country and in the world.

Since each of those problems would inevitably be aggravated, perhaps beyond all hope of solution, but further numerical expansion, the conclusion that the world-wide rate of population growth must be drastically reduced as

a major first step towards safeguarding the future of mankind is easily arrived at.

Unfortunately, the means by which that goal can be accomplished with a minimum of unfavorable economic and social disruption has yet to be clearly enunciated by the theorists, let alone adopted by the frequently myopic governmental agencies, or accepted by stubborn, traditional, and often superstitious peoples.

#### A Modest Proposal

If we are to play the game according to the normal rules, then the decision to limit personal rate of reproduction must be uncoerced. It could however be influenced by economic incentives such as a tax on people which could be justified on the basis that the part of the environmental impact of a person's existence that cannot be compensated for by other means such as taxes on garbage generated or energy used and which would mainly correspond to the air

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## Special Chemistry+Society Seminar

### Public Vs. Private--The Chemist's Place

by Philip Massey

The role of the chemist in industry today is not quite what Dr. Richard Gordon spoke about to some thirty people at the Chemistry and Society Seminar, held yesterday afternoon in 22 Gates. The talk, "The Technological and Societal Revolution and the Private Sector—or the Greening of Caltech and Monsanto," was centered around more questions than points.

Dr. Gordon that he conveyed greetings from an "insitute of cultural shock," a reference to a number of changes that have been made, and which are taking place, in the Monsanto Company. These changes encompass a different way industry, or some of industry at least, has of looking of things—especially science.

#### They're all Private

He pointed out that institutes like the Monsanto Company and Caltech are all alike in some ways, important ways in his opinion. They all are private, private in the sense

that they have no tax base, their continued existence is not guaranteed, and they all have to do something for someone: they have obligations to certain individuals. Among these similarities is the fact that it is about as easy for a scientist to get a job in industry now as it is for him to get a job here.

#### As It Was in the Beginning...

Gordon pointed out that until the Second World War the differences between "modern chemistry" and alchemy were existant only in the minds of chemists. DuPont was about the only company that actually supported fundamental research, i.e., a person rather than a project. This question of research as opposed to applied science is one that has plagued the scientist since Pasteur. What Gordon says is happening now, what he and his people are trying to do, is not to try to look for a distinction that may or may not be there. He stated that the constant reaction he got

from his friends in the academic world was that he and other scientists who work in industry have "sold out," that they are willing to produce to meet the market. He argues that this just is not so, that the people in industry are in a position to do something about tomorrow.

#### A Matter of Belief

Industries are not monolithic, he continued, but are collections of individuals. Some of them do care about the insane things man is doing to his environment. Some are still concerned with making a better toothpaste. Yet, the purpose of the scientist in industry is to understand, the same as that in an academic environment. The difference may lie in that one is in a position to help shape the tomorrows and the other is not.

Gordon asked questions more than actually lecturing. What should an institute, be it an industrial or academic, decide it will and will not do? How much are institutions responsible to the public well being and how much to themselves: Gordon argues that by serving people the industry will survive; if it doesn't, then it won't survive.

## Carter Encounters

### Caltech Sunday

by E. Gansner

The composer's composer, Elliott Carter, will be on campus this Sunday, February 14, as part of the Encounters Contemporary Music Series. Carter, who has just been named winner of the Gold Medal for Music by the National Institute for Arts and Letters, will take part in an open seminar and a lecture in Beckman. The evening will conclude with a performance of Carter's two string quartets by the Composers String Quartet.

The seminar will begin at 4 in the afternoon in Winnett Lounge. Carter will discuss his works and talk about the development of modern music from his viewpoint. Then, at 7, he will give a free lecture in Beckman concerning his music and, in particular, his string quartets, Nos. 1 and 2, that evening's program. The concert itself will begin at 8 p.m. in Beckman, where the Composers String Quartet will take over, playing the two lauded quartets.

**Wasn't Guggenheim a Radiation?**  
Carter is one of the most

Continued on Page Four

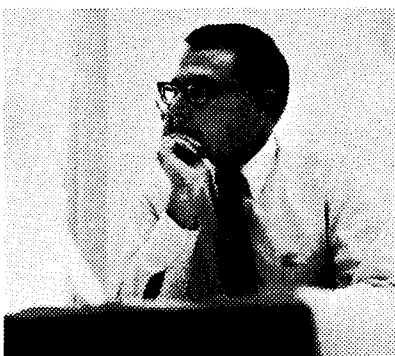
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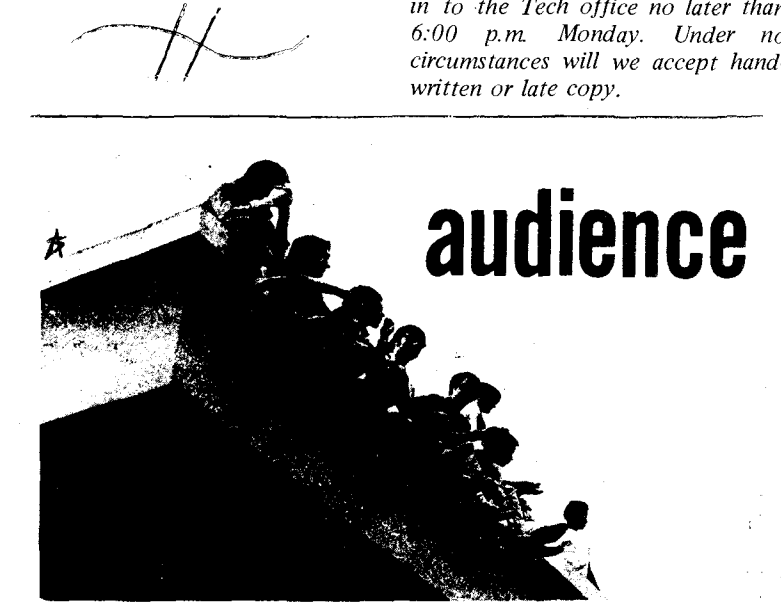
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**Civil Engineering Seminar**  
to be held this afternoon

Dr. Paul C. Jennings will speak this afternoon on "Vibration Tests of a 22 story Building" in 206 Thomas at 4:00.

**Earth Day Meeting**  
this Sunday

There will be a meeting in the CEAC office this Sunday at 7:00 to discuss Earth Day. Anyone interested is welcome to attend.



audience

ovid's metamorphoses at taper forum

by Phil Neches

Imagine bringing the Greek and Roman myths to the stage, replete with song and dance. Now breathe life into that thought by providing a translation, complete with lyrics, of Ovid's compilation of those enduring stories. Add music composed by Country Joe McDonald, and the talents of the Story Theater company, and the result will be Ovid's *Metamorphoses*, currently playing at the Mark Taper Forum of the Music Center.

Story Theater first attracted attention for its adaptations of fairy tales for the sophisticated stage. *The Metamorphoses* is an equally delightful transformation of literature into action. The irascible gods, playful nymphs, and heroic mortals live again on satastage, to the entertainment of the modern audience.

**Fluid Roles**

The members of the cast change roles from night to night. For that matter, no relationship need exist between the order in which the scenes are listed in the program and the order in which they are performed, but this only adds to the fun.

For example, Avery Schreiber usually plays several roles in the course of the evening. He is the lame and jealous Vulcan, only to reappear several scenes later as Pygmalion. In both of these scenes, Schreiber, a consummate comedian, steals the scene and simultaneously

office—homes—apts.

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**NOTICE TO ASCIT CANDIDATES:**

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**BACK HOME AGAIN** Norman Greenbaum

This album is plainly a disappointment after *Spirit in the Sky*. The topics of his songs in this album include a chicken, a canned ham, a conceited playboy, and a nude dancer (of Page House fame?). Somehow the songs lacked the creative genius that was found in his

earlier works. All of the songs were written by Greenbaum himself. It is obvious since no singwriter could survive writing that kind of music alone.

**Moving Finger** by the Hollies

*Moving Finger* could have easily been created as a rock opera of the life of a woman. As a rock opera it

would have easily surpassed the quality of *Tommy* by The Who. Moving *Fingers* contains one of the best collections of songs ever gathered on various aspects of life. In each of the songs one can picture the characters acting out their parts in the songs. This album is a worthwhile addition to anyone's record collection.

Caltech Encounters Carter

Continued from Page Three

prominent of the modern composers. He is particularly known for his rhythmic and melodic innovations. A Harvard student with Walter Piston and Gustav Holst, he finished his studies in Paris with Nadia Boulanger. Since then he has concentrated on composition, receiving two Guggenheim Fellowships and the Prix de Rome.

Excited by the works of Stravinsky, Bartok and Varese, he slowly turned away from the main stream of contemporary music. Trying to avoid the classical pattern of thematic repetition, he worked with the mixing of linear patterns, giving his music a type of modern contrapuntal style. And, instead of destroying the metrical rhythmic principle, as did his contemporaries, he extended and transformed it into something unique.

These stylistic traits are quite evident in the two string quartets, and offer a contrast of the composer over ten years. The first quartet, which won first prize at the Concours International de Quatuors a Cordes in Lieges, Belgium, was

written in 1951. It contains Carter's first major statement of his new rhythms, blended with melodic and thenatic neo-classicism.

The second quartet (1959) has completed the process. There is an interplay of the four components, each with its own personality. This concise quartet contains no traits of neo-classicism; the work is concerned solely with motive, change and progression, with no repetition. For this, the quartet won the Pulitzer Prize, the New York Critics Award and the 1960 UNESCO first prize.

The performers at the concert, the Composers String Quartet, is probably the only group that can really play the quartets as they should be. The Quartet was formed in 1965 and is currently in residence at the New England Conservatory of Music. The group recently recorded the two quartets for Nonesuch records, the performance receiving nothing but acclaim for its interpretation of the works.

Tickets for the concert are still on sale and can be bought at the Beckman ticket office.

**Truk by Truk Tracks**

Truk Tracks is a group that sounds similar to early Steppinwolfe and Led Zeplin. The music itself has a marked resemblance to that of Led Zeplin but their rhythm and style are all of their own. Although their music hits you hard initially, Truk Tracks lack the talent of keeping you interested. If they learn how to vary the rhythm and beat in their songs, then Truk Tracks will be a group to watch in the future.

**Life by Sly and the Family Stone**

This is a great album by one of the finest groups of our time. Their combination of hard rock with just the right touch of soul has created a musical masterpiece. "Life" can liven up even the dullest of evenings or parties. The last time I saw Sly was at the Forum over a year ago: they had the entire audience actually dancing in the aisles.

This album brings out this same unique quality of the group. Perhaps the best recommendation that I can make as to the purchase of the album is that eight of my friends have heard it and six of them have asked to borrow it.

—John Tristano

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CRUNCH! Oh, well, at least I won't have to go to my eight o'clock this week. Try walking by the chemical bunker and taking a sniff. —photo by Ctein

## Bomb Threat Proves Empty

Continued from Page One

showed up looking for a full coffeepot and L. Terry Suber, Chief of the infamous B&G Syndicate, was woken up, as were his lieutenants - (one claimed to have made it from Burbank in 15 minutes). Most of them almost had their eyes open by the time they arrived. A unit of the Pasadena Police was called in for consultation: he arrived at the brilliant conclusion that the buildings should be searched and called for more units. Before long there were five white cars with funny lights on top parked on Greasy Street.

A search of Winnett flushed out nothing but a darkroom troll, and results were similar in the other two buildings involved. Although it was becoming obvious by this time that the threat was a hoax, all utilities except electricity were shut off as a precautionary measure. Ken Charles was heard to remark that it was just a sadistic plot to get him up at 2 o'clock in the morning. More seriously, since Suber was due to testify downtown in the morning (see letter elsewhere in this issue), the possibility that the threat was planned

to wear him down before his rough day ahead is more likely.

Suber praised the way the whole situation was handled, with the right people being called in immediately without panic or excess commotion. As no big bangs occurred, operations were shut down at around 5:00; Suber and his underlings went home, Charles went off to prepare his reports, the Pasadena Police went back to watching the massage parlors, and I went to bed before my 8:00. (yawn)

## Tax People. . . . .

Continued from Page Three

breathed and the space used by the person would be the same for all people, rich or poor. (note: \$500 per person per year would supply all the revenue that now comes from the graduated income tax system which, with its personal exemptions is very probably a contributor towards over popu-

## All of Brown's Horses And All of Brown's Men Couldn't. . .

Continued from Page One

Freshmen chemistry lab sections in Gates were canceled, and the building declared off-limits, when it was found that several reagent bottles had fallen from the shelves, producing some rather noxious fumes. A section of air conditioning duct was hanging from the ceiling; the other sections were on the floor along with the rubble. Workers in Noyes went in wearing gas masks.

Millikan Library was put out of commission. One custodian claims that he heard an elevator fall to the basement level. Also, a crack developed over the entire length of the stairwell though nothing dire came of it. Many books were shaken from the shelves, and the shelves themselves were distorted. One librarian said it would be at least a month before things would be back to normal. As things stand the library is closed above the first floor, and the building itself will be open weekdays until 5:00 p.m.

A water main supplying Caltech began leaking, so Tech's water supply had to be curtailed late Wednesday afternoon while repairs were being made.

All in all it was a bad day for the insurance companies.

## Beckman on Beckman

## Population Limits ?

by Peter Beckman

For the second time this term people had to be turned away from a Monday night Beckman lecture. Prof. Harrison Brown's talk on "The Limits of Growth: How Many People Can the Earth Support?" created such interest that over 150 people stood on Beckman Mall to listen to the talk over loudspeakers after the auditorium had filled completely.

Professor Brown began by saying, "The earth can support many more people than you or I would care to be associated with," and then proceeded to prove his point. The largest absolute limit of population is 333 billion persons. Of course, this figure is nonsense; it is based on the solution of all problems that man would encounter; meanwhile, man cannot cope with the problems created by today's population.

Currently, there are 3.5 billion persons on earth, and their problems seem too large to be coped with. One billion are affluent and getting richer, while 2.5 billion people are mired in poverty.

### Rich Man

On the surface, the rich have it made. They consume more than anyone else; using, for example, 25 times more steel per capita than the poor. But the problems of nationalism, growth, technology, and pollution could destroy this prosperity.

Too much of the resources of the rich nations go to support their military establishments, so that they can be protected from each other. The per capita consumption of materials is increasing in these countries at a tremendous rate. This is accomplished partially by using the resources of the poorer nations.

The very technological foundation which created the great affluence is vulnerable. The huge interconnecting network of industry, transportation, distribution, and communications can be halted by the failure of a single component.

Finally, there is technology's stepchild — pollution. This problem can be solved technologically, but it will not be until it is solved politically and socially. In other words, it will continue until the people and the government find the will to stop it.

### Poor Man

In contrast to the numerous problems of the affluent nations the poor countries have only one major problem, but it transcends all others. Their tremendous growth rates swallow any progress that they are able to achieve, and until the people of these countries are motivated to lower the growth rates, they will be unable to lift themselves to a more affluent level.

With all these problems, Professor Brown is pessimistic about the future, but he thinks the problems are solvable if mankind has the will.

333,000,000,000

If mankind could solve all its problems, what would be the limit of growth? Historically, the first limit was reached in prehistory when the human population reached ten million. At this point the earth could support no more people who lived by hunting and foodgathering. The discovery of agriculture changed this situation drastically by increasing food production potential by several orders of magnitude. It also produced enough surplus food to allow 10% of the population to

Continued on Page Eight

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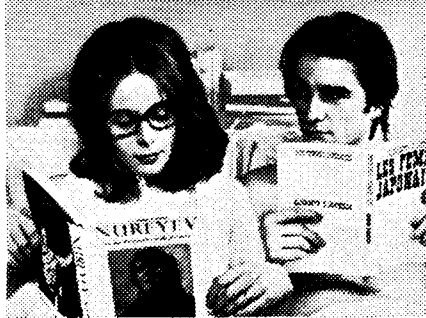
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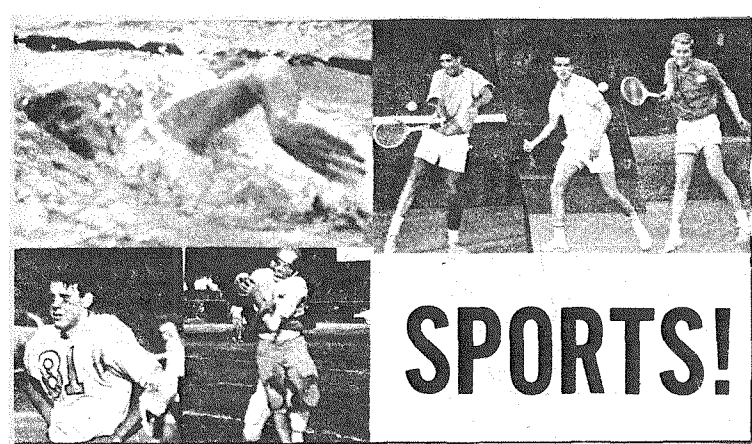
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SPORTS!

Behold !

by Bergthorne

The recent seismographic disturbance has prompted many discussions of probable causes for these events. Speculation centers around the pressure gradient of the San Gabriel fault. All such speculation is, however, most shallow and specious in light of recent analysis of select seismographical and selonographic research, which has produced a considerably more substantial argument. It would seem from these studies that Maw-Thel, the Moon God, angered by the attack by Thwel-Mel, the Earth Creature, with that funny little rocket, decided to retaliate by causing the Universal Force Lines to reverse their polarity. This gave Thwel-Mel a Burn-Burn in his Tum-Tum, and ...

Baseball Team  
Practicing for  
Upcoming Season

by John Tristano

The Caltech Varsity Baseball Team continues to practice from 4:00 to 6:00 p.m. daily. The team looks good in practice and should have an improved season. Team membership is expected to reach 18 after the conclusion of interhouse track and the basketball season. The team needs a pitcher and a catcher to bolster it defensively. Anyone interested in joining the team should come to a practice at their convenience. The team is in need of managers and anyone, especially girl techers, would be appreciated to fill the position.

Varsity Basketball  
Wins with Superb  
Shooting Rebounding

by Tom Matoi

The Caltech cagers trounced the Pacific Christian College Indians 89-53, last Friday. The Beavers led from the opening bucket and held a 39-23 half time advantage.

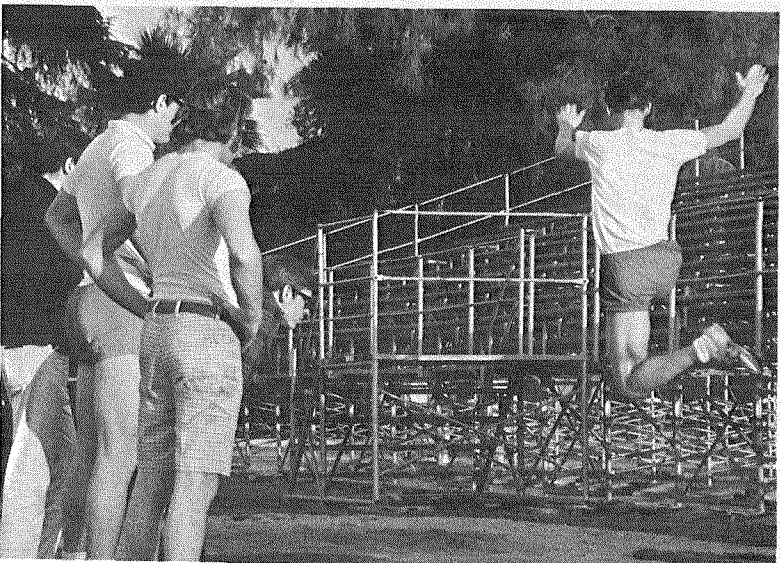
Forward Gary Koenig paced all scorers with 19 points, sparking the Beavers in the first half with 14 tallies on six goals in nine attempts. On the opposite side of the key, Bruce Wright, potting six field goals at a 67% rate, tallied 17 points. Center Tom Heinz connected on seven of eight from the floor in the second half and added a total of 16 markers to the winning cause. Backcourt men Don Keenan and Jerry Feely chipped in with 14 and 9 points respectively. Ken Hanson sank four out of four from the floor as he collected 10 units and Durwin Wright tallied another 4 to round out the scoring. Overall, the Beavers shot 50%, sinking 36 out of 72 attempts.

Meanwhile, the Techers swept the boards for 56 caroms while allowing PCC 43. Bruce Wright led Caltech with 11 rebounds and was aided by Hanson and Keenan with 9 each.

An earlier highlight of the 1970-71 season was a 69-65 conference victory over Claremont-Harvey Mudd on January 9. That game gave Caltech a 1-0 record and a share of the league leadership.

In the final round of conference play, Caltech will host Pomona tomorrow and Occidental on February 17. The tipoff for the JV contests will be at 6:30 p.m. and the Varsity matches will commence at 8:30 p.m.

First the earth quaked,  
Then the moon eclipsed,  
And finally the Tech came out.  
Is the end of the world at hand?



Stu Sando, known to be good with the broads, jumps his way to a victory in Tuesday's Interhouse Track field events. —photo by Fish

Relay Team , Divers do Well as  
Swimming Team Loses to Claremont

by Bob Kieckhefer

Last Friday's swim meet at Claremont started well, as for the first time this year Caltech put together a winning 400-yard medley relay team. Bob Coleman, Bob Hall, Jim Jakway, and Tim Hight combined to swim the race in 4:00.7, less than six seconds shy of the qualifying time for the NAIA national meet in March. While swimming the 100-yard backstroke for the first leg of the relay, Bob Coleman set a new Caltech freshman record of 59.8 seconds.

The tone of the meet soon changed, however, as a Claremont swimmer qualified for the nationals by swimming the 1000-yard free-style in 10:33.4, leaving Bob Harmon and Bob Kieckhefer far in his wake. The only Caltech swimmer to place better than third for the rest of the meet was Bob Coleman, who won the 200-yard individual medley by a hand's length and the 200-yard backstroke by a more comfortable margin.

Once again Caltech divers did well, as Greg Beall received a first and a second in the two diving events, while Alan Rice received a third and a fourth. The final score of the meet was Claremont 80. Caltech 33, (not 80-73 as reported in Sunday's L.A. Times).

Tomorrow the swimmers will take on the Pomona College team at the Caltech pool at 4:00. Coach Lawlor Reck expects his swimmers will have little trouble winning their first meet of the year. Cheer them to victory tomorrow! Be there! (This is their last home meet this year).

NOTICE TO ASCIT CANDIDATES:

If you wish to have a statement published in next week's California Tech, make sure that a typed copy of your statement has been turned in to the Tech office no later than 6:00 p.m. Monday. Under no circumstances will we accept handwritten or late copy.

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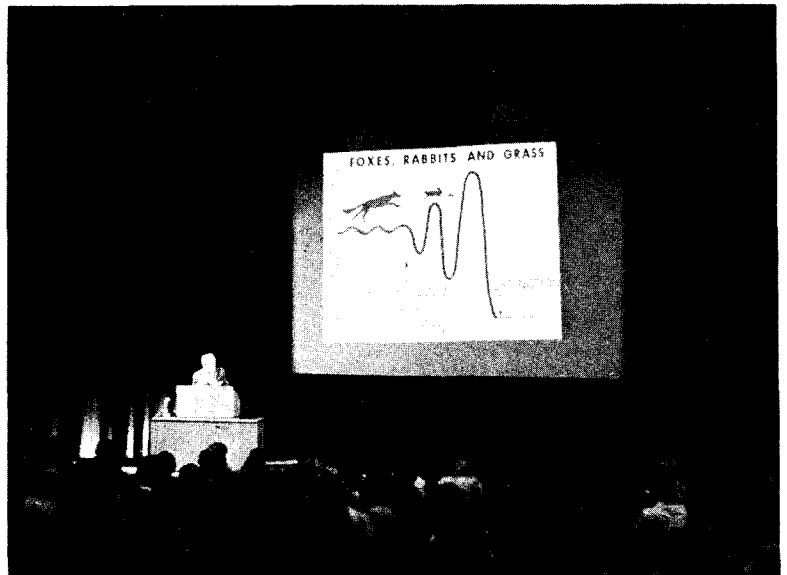
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Caltech's Dr. Harrison Brown spoke on overpopulation to an overpopulated audience at Monday night's Beckman lecture. —photo by Fish

## ASCIT

Continued from Page Two  
18th issue, the day before the election on Friday, February 19th. The deadline for such statements is 5:00 p.m., Monday, February 15, in the *California Tech* office, and statements are to be type-written and double-spaced.

Candidates will visit each of the seven houses starting tonight in order to acquaint themselves with the student body.

### Last Week

Illness, conflicting schedules, and fatigue prevented the majority of the Board from attending last

week's meeting. But even without a quorum, Barker, Fisher, LaGrone, and Seita conducted business which was later ratified through a phone vote with the absent directors.

The financial plight of the annual Political-Military Exercise was removed with a \$167 grant from ASCIT allowing free participation in PME for the Caltech Community. In addition, a grant of \$100 was given to the Caltech Environment Action Committee (CEAC) for part of the preparation costs for the second annual Earth Day at Caltech. The first celebration sponsored by CEAC brought extravagance and elegance to the campus last April 22.

## 333 Billion?! More People Than You'd Want

Continued from Page Six  
live without having to farm.

The ultimate limit of this peasant-village system would have been five billion people but it was still very far off when the industrial revolution began to create today's technological society. Using this technology to the fullest about 15 billion acres of land or about 4 times the present crop acreage, could be cultivated. This would involve large scale irrigation and extensive use of fertilizers and hybrid strains.

With these advantages 30 billion

persons could be supported on a west European style diet or 100 billion persons could be supported on a Japanese style diet. Unfortunately, the energy required to make these changes would deplete the world's supply of fossil supplies in only a few years.

But man can always use the practically inexhaustible supply of nuclear energy. Using this to create synthetic foods it has been estimated that the earth could support 333 billion people. This would give an average density of 6,000 people per square mile over the surface of

the earth. Beyond this limit, the energy output necessary would raise the earth's mean temperature too much.

All these speculations are nonsense according to Professor Brown. They completely ignore those problems that mankind has been unable to solve, but instead substitute limits based on the best of all possible worlds.

\*\*\*

Next Monday at 8:30 p.m. Professor J. R. Jokipii will speak at Beckman Auditorium on "The Life History of a Cosmic Ray."

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