

On Sunday,
Set the Clocks
Ahead.

The CALIFORNIA Tech

Hey,
but issue 31 is the...

Volume LXXIX Number 30

Pasadena, California

Friday, April 28, 1978

Computer Prof Sutherland Elected to NAS

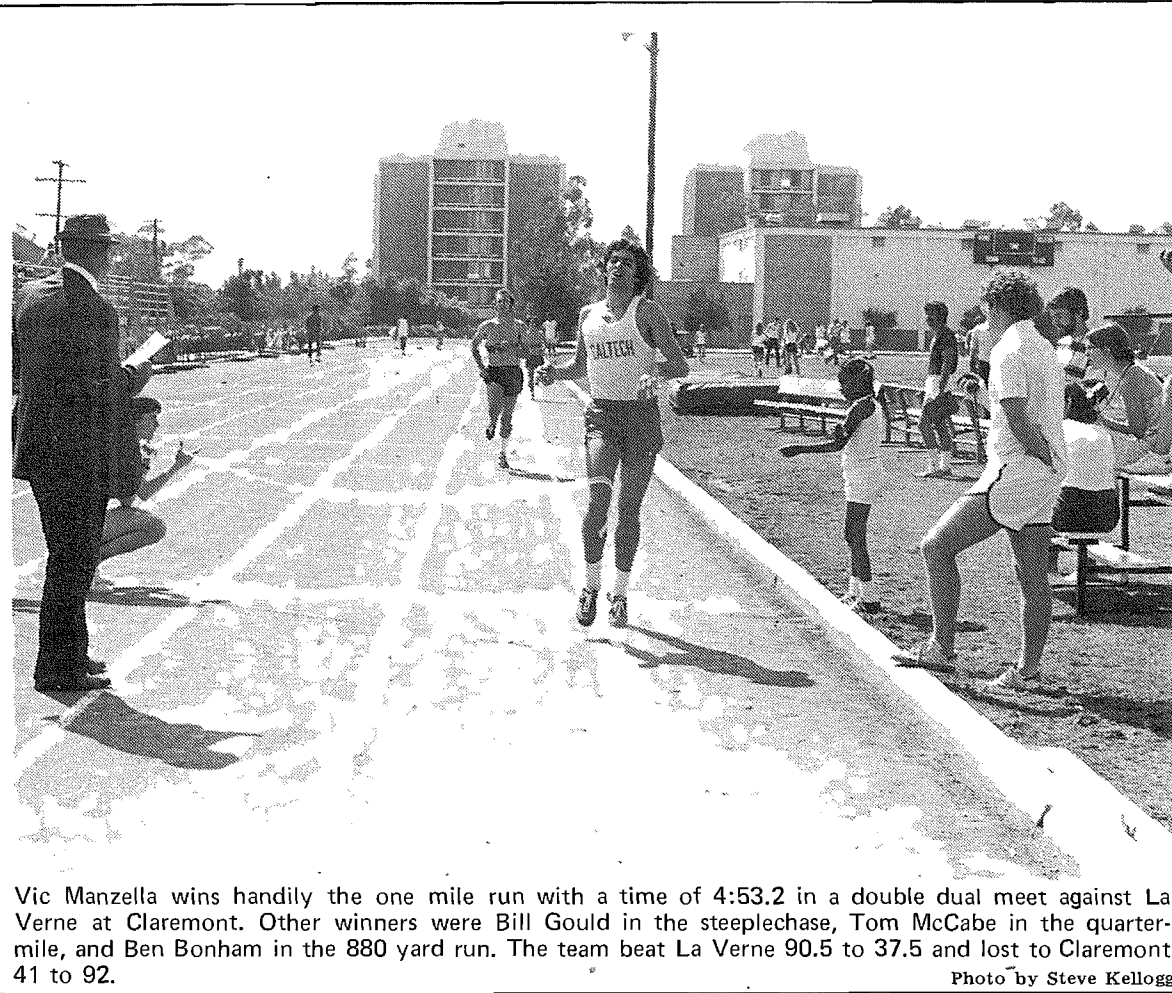
Dr. Ivan E. Sutherland, Fletcher Jones Professor of Computer Science and pioneer computer scientist, has been elected to the National Academy of Sciences in recognition of his achievements in original research. The election, considered one of the highest honors that can be accorded an American scientist, was held Tuesday, April 25, in Washington D. C., during the business sessions of the 115th annual meeting of NAS. Sutherland, 39, is one of 60 persons chosen for NAS membership this year.

In his research, Sutherland is developing new philosophies of computer design, programming, and use in order to cope with the rapidly changing nature of computer components. One of his early concepts was the use of computer-drawn pictures in industry and education—for everything from designing automobiles to simulating airplane landings for training pilots.

Currently working in what he calls "the integrated circuit revolution," Sutherland is attacking the problems inherent in the expansion of the sophisticated inter-connecting mechanisms of the integrated circuit technology used in computers.

Born in Hastings, Nebraska, Sutherland earned his undergraduate degree from Carnegie Tech in 1959, an M.S. from Caltech in 1960, and a PhD from MIT in 1963—all in electrical engineering. Shortly after receiving his PhD, Sutherland went in Washington, D.C. with the advanced Research Projects Agency, where he became director of the Information Processing Techniques Office.

In 1966 Sutherland went to Harvard as associate professor. Two years later, with a colleague, he founded Evans and Sutherland Computer Corp., a company that see NAS on page three



Vic Manzella wins handily the one mile run with a time of 4:53.2 in a double dual meet against La Verne at Claremont. Other winners were Bill Gould in the steeplechase, Tom McCabe in the quarter-mile, and Ben Bonham in the 880 yard run. The team beat La Verne 90.5 to 37.5 and lost to Claremont 41 to 92. Photo by Steve Kellogg.

Tech's Money : Where Got . . . Where Gone?

By Richard Willson

Tech's campus expenditures for the fiscal year ending September 30, 1977, amounted to \$55.5 million, up 8.5% over the previous year. The largest increase in campus expenditures was for the instruction and departmental research programs, whose costs totaled 16.9 million dollars, a one-year increase of 11.8%.

Gifts and non-government grants to Caltech during the period were \$18.2 million, well above the average of recent years. The level of gift funding has shown a steady increase over the past decade, and gifts and grants continue to be a financial mainstay of the Institute.

Over the same period, endowment income was \$8.5 million, an increase of \$2.4 million over the previous year. The endowment fund itself, the source of the income, was valued at \$155.5 million on September 30. Although this represents a considerable increase over the June, 1970 figure of \$107.8 million, this is counterbalanced by inflation and is essentially the same amount as the 1970 sum when measured in constant dollars. The campus buildings, equipment, and land are currently valued at about 65, 50 and 7 million dollars respectively.

Major savings in expenditures were made possible by widespread voluntary energy conservation. One major innovation was the Caltech "phantom" fluorescent tube, which won a \$10,000 first prize from the Cost Reduction Incentive Awards Program of the U.S. Steel Foundation. Its use and other methods of conservation allowed the campus to cut electrical power usage by about 30%.

In addition, the Institute undertook a program of examination of consumption patterns and opportunities for savings of natural gas and fuel oil. These see \$\$\$ on page three

STILL MORE SEX ABOUT

This article is the third in a series of articles reporting and discussing the results of a comprehensive poll on sexuality and sexual mores. The first two articles have discussed at length the whos, hows, whys, whens, and wheres of this poll. These important details will not be repeated this week, in the hope that most of the readers are already familiar with these facts. Anyone wishing to read or review these ideas and facts should check with the Tech office. This week I will present and discuss five different graphs of data obtained from this poll.

The first graph which I would like to discuss this week deals with homosexuality. This graph is

shown on page (2). The question asked was, "Have you ever been involved in a homosexual contact since the age of 11?" The graph represents the percentage of people responding 'yes' to this question.

It should be noted here that the question does not ask if the person is a homosexual or not. There was a question in the survey which asked, "Would you describe yourself as basically homosexual or heterosexual?" I have not graphed the results of this question, as the number of people answering "homosexual" to this second question was never statistically significant. No more than

two people in any of the eight subpopulations polled claimed that they were basically homosexual.

As taken from a Playboy Foundation poll, one-fifth of all males and fifteen percent of all females have had some homosexual contact since the age of eleven. For people between the ages of 18 and 24 (inclusive), these percentages are only fifteen percent for males and just under ten percent for females. The 18 to 24 age group is probably closer to what one would expect from the similarly aged college people at Caltech and PCC. see Sex on page two

Elie Wiesel, Noted Author, to Lecture Tuesday

Elie Wiesel will speak on "The Eternal Question of Suffering and Evil" on Tuesday, May 2 at 8:00 pm in Baxter Lecture Hall. Elie Wiesel is acclaimed as one of the most gifted and sensitive writers of our time and an outstanding voice for the human conscience. He is the author of many books, including *Beggar in Jerusalem* for which he was awarded the Prix Medicis, and *Souls on Fire: Portraits and Legends of the Hasidic Masters*, awarded the Prix Lordin of the French Academy.

Wiesel was born in 1928 in Sighet, a town in Transylvania. He is the son of a Hasidic storekeeper, and spent his early years as a yeshiva student. At the age of 15 he was sent to the concentration camp Buchenwald. His father died there before his eyes, and most of his family perished in other camps. Much of his writing reflects on these experiences.

After the war ended, Wiesel was sent to France with other Jewish orphans. He studied at the Sorbonne and later became a correspondent for several newspapers and magazines in France and Israel. Wiesel came to the U.S. in 1956 and is currently Andrew Mellon Professor of the Humanities at Boston University.

Wiesel is today a renowned spokesman for the Jewish people. He has been called the "conscience of contemporary world Jewry" and "a modern Job". The L.A. Times writes: "Perhaps more than any other writer today, Wiesel forces us to remember. His words make us confront our history and ourselves; his images bring tears to the eyes and gladness to our souls. He calls himself a storyteller, but he is surely more than that. He is a chronicler of madness and sanity."

BOD Bawls "Big Book Bankrupt"

By ed. Bielecki

"Shit!" said Gentle Ray Beausoleil, the ASCIT President, and this was indeed a good analysis of the new and highly unimproved *Big T* situation. At the end of this year, the *Big T*, and hence ASCIT, will still owe \$6,000 to the publishing company, for the last yearbook. The *Big T* is now very deeply (4 terms worth) into deficit spending, and this is not a good state of affairs.

The BOD will have to take out an Institute loan for the \$6,000 (The company won't print this year's book, until last year's is paid off.) but this is only a delaying action, and not a cure. The \$11,500 debt will have to be made up one way or the other. One of the more reasonable ways to do this involves raising the cost

Dr. Morgan and Dr. Roshko Elected to NAE

Two members of the Caltech faculty have been elected to the National Academy of Engineering, President Courtland Perkins of the Academy announced in Washington early this month. They are Dr. James Morgan, professor of environmental engineering science, and Dr. Anatol Roshko, professor of aeronautics.

The election of Morgan and Roshko brings to 24 the number of Caltech faculty who are members of the prestigious Academy, including Dr. Robert O. Cannon, Jr., chairman of the Division of Engineering and Applied Science, who has been reelected for a second three-year term to the Council of the Academy.

Morgan, 45, was honored for his contributions to the engineering profession through basic research and application of

chemistry in water purification and pollution control.

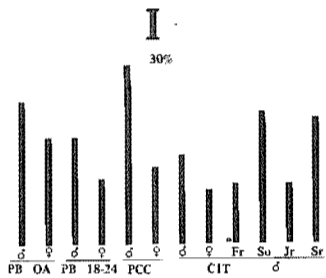
Roshko, 54, was named for his research on turbulent shear flow with applications to wind engineering problems, vehicle aerodynamics, and various turbulent mixing processes.

The two Caltech scientists are among 100 engineers in the United States who were honored this year by election to the Academy. The total U.S. membership is 857.

Morgan has been a member of the Caltech faculty since 1965. He has degrees from Manhattan College, the University of Michigan, and Harvard. Roshko came to Caltech in 1946 from Canada with a BSc degree from the University of Alberta. He received both an MS and a PhD from the Institute, and in 1952 was appointed to the faculty. see NAE on page three

SEX from page one

The main interest with this first question is to determine if Caltech, a school with close to 90% of its undergraduate population being male, presents an environment which encourages homosexual contact. There is often the common belief that a school which is mostly male will breed a larger number of homosexuals. This idea is proven quite false by the data in my poll, as shown by this first graph. Less than thirteen percent of the Caltech male undergraduates have had some sort of homosexual contact since the age of eleven. In sharp contrast, at Pasadena City College, a school with a much more equitable male to female ratio, close to 25% of the males have had some homosexual contact. This is even higher than the 20% figure for males overall, found by Playboy. Thus, it becomes quite clear that the Caltech environment does *not* encourage or cause any abnormally high degree of homosexual contact.

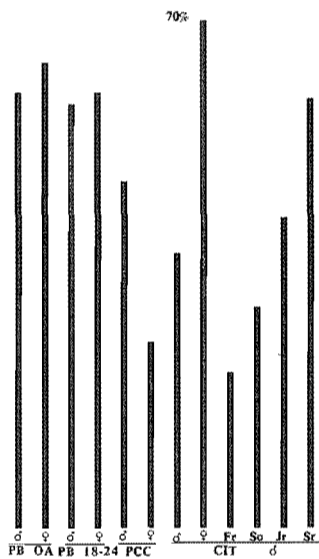


Both Caltech females and PCC females showed a percentage of homosexual contact very similar to the females Playboy polled between the ages of 18 and 24. By class, Caltech males show a statistical dichotomy as the Sophomore and Senior classes show a higher percentage of homosexual contact since the age of eleven than the Freshman and Junior classes.

similar in many ways to the sexual intercourse percentage seen in last week's article, and is most likely related to the simple difficulties of meeting females in a college environment with a nine to one male to female ratio.

A much more astonishing figure is the PCC data. Both PCC males (32.3%) and PCC females (33.3%) show a very low percentage of involvement or participation in fellatio. This may just be reflective of the relatively small number of PCC students polled, a point which I have mentioned and discussed in the previous two articles.

The final point which I would like to discuss is the final four data columns. Overall, Caltech males showed a higher degree of experience with fellatio than both PCC males and females. By classes, Caltech males showed a definite trend towards increased experience and participation in fellatio from the Freshman (23.3%) through the Senior years (over 50%). This is consistent with the three graphs presented last week showing an increase in sexual experience and activity for Caltech males as they progress towards graduation.



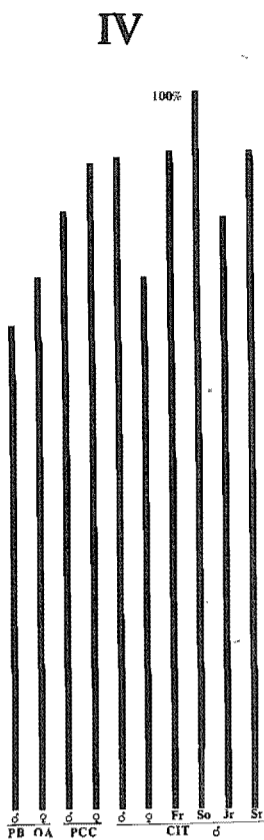
The third graph which I will discuss this week is very similar to the second in that it also deals with oral sex. This third graph deals with cunnilingus. This graph is shown on page (2). The question asked was "Have you ever been involved in or participated in cunnilingus (heterosexual; def.: oral-vaginal sex) in the past year?" The graph shows the percentage of people responding yes to this question.

The graph on cunnilingus is in many ways very similar to the previous graph on fellatio. Once again, Caltech females show the highest degree (70.4%) of participation in and experience with cunnilingus. Overall, it can be clearly stated that Caltech females show the highest degree of participation in oral sex (both fellatio and cunnilingus) of any subpopulation polled (including Playboy data).

Caltech males showed the same relatively lower overall involvement or participation in cunnilingus (37.8%) that they did in fellatio. In addition, the Freshman to Senior trend for Caltech males is also evident as experience in cunnilingus increases from 22.2% to 60%. Caltech male Sophomores should note here that the "Sophomore anomaly", present in all three graphs last week, is absent in these last two graphs dealing with oral sex.

Also similar to the previous graph on fellatio, PCC females showed an unusually low inclination or participation in cunnilingus in the past year (25.9%). However, PCC males, who showed a low degree of participation or

involvement in fellatio in the last graph, show a much higher degree of participation or involvement in cunnilingus (48.3%) in this third graph. I have no explanation for this disparity in the PCC male response, but it is worth taking note of.



The fourth graph which I will discuss this week deals with the debate between sexual intercourse and oral sex. This graph is shown on page (2). The question asked was, "Do you prefer to reach orgasm through intercourse or through oral sex?" The graph shows the percentage of people who checked or circled intercourse as their preference.

This is an interesting question in that it points up another of the many problems in analyzing the data from such a poll. The people responding to this question included a large number of virgins who have never experienced an orgasm through either sexual intercourse or through oral sex. It also includes responses from people who have never experienced one or the other of these two orgasmic experiences. Thus, the results reflect, to a rather large extent, what many people *think* they prefer, in addition to what some people actually do prefer from their own experiences. Thus, when it is seen that Caltech males (91.3%) prefer intercourse over oral sex more than any other group, it should also be added that Caltech males had the least experience in sexual intercourse of any group polled. Thus, it

STICKLES by Geoff Baskin



appears that the prevailing opinion among Caltech males is that orgasms through sexual intercourse are more desirable than orgasms through oral sex. This opinion fluctuates a bit from class to class, as seen in the last four columns on this graph.

In contrast, only 73.7% of the Caltech females polled prefer orgasm through sexual intercourse rather than oral sex. Thus, in comparison to Caltech males, Caltech females show a slightly higher degree of preference for oral sexual orgasms. Still, the overall percentage of Caltech females preferring intercourse orgasms is essentially equivalent to the figure compiled by Playboy for all female adults (age 18 and up).

The fifth and final graph for this week involves anal intercourse. This graph is shown on page (3). The question asked was, "Have you ever been involved in or participated in anal intercourse (heterosexual)?" The graph shows the percentage of people responding 'yes' to this question.

The first thing to note on this graph is the simple fact that 28.6% of the Caltech females see Sex on page three

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The CALIFORNIA Tech

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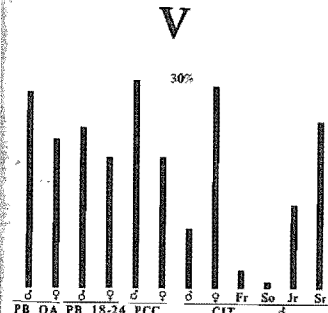
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Friday Night at 7:30 and 9:45
in Baxter Lecture Hall
ASCIT Members 50¢ Others \$1.00
The Magnificent Seven
This week the second show will start at 9:45 instead of the usual 9:30.
Next Week 3 Days of the Condor

SEX from page two

olled have had some experience with anal intercourse. While this is slightly higher percentage than other of the Playboy female populations, it can in no way be considered unusually or extraordinarily high, as PCC males polled show an even higher percentage of anal intercourse experiences (29.0%). And this figure is also not much more above the figure for males overall as compiled by Playboy (first column).

PCC females show a degree of experience with anal intercourse (18.5%) on a par with college age females polled by the Playboy foundation.



Caltech males, on the other hand, show a much lower percentage of people who have participated in anal intercourse. Once again, this could be due largely to the poor male to female ratio at Caltech. The overall pattern for Caltech males, as seen in the last four columns on this graph, should be familiar to those who read last week's article. There is the usual increase in sexual experience (heterosexual anal intercourse, this time) from the freshman to the Senior years, and the once familiar Sophomore anomaly has returned here. Only 18% of the male Freshmen polled admitted to having had any heterosexual experience with anal intercourse, whereas fully 23.3% of the male Seniors polled have had such experience.

Once again, mature opinions and/or responses to these articles and the data presented is welcomed and strongly encouraged. In the next article I will be covering such diverse topics as sexual satisfaction, the Equal Rights Amendment, abortions, and sexual and masturbation frequencies.

-Larry J. Martin

BIG T from page one

of the book, and, by keeping close track of the production, holding the cost down.

The current plan for this year's *Big T* calls for a book of just under 200 pages, with no color. (Before anyone gets too upset, note that this is just like the 1970 "Feynman" *Big T*.)

The exact method of getting the money to pay off the debt is not yet determined. Gentle Ray plans to search for new possible sources of funds, but the majority of the money will likely come from raising the ASCIT or *Big T* dues, for the next many years. (The buck fifty for only two terms you can kiss good-by.) Anyone with complaints, insights, and/or brilliant ideas is solicited to attend the next several BOD meetings, Mondays at 10:30pm in the Y Lounge.

\$\$\$ from page one

steps led to a consumption cutback of 40 percent, and an annual savings of \$100,000.

The 'At The Leading Edge' program, launched in 1974 with the purpose of raising \$130 million over five years from private sources, has made satisfactory progress toward its goal, and the overall financial position of the institute, according to vice-president and treasurer Morrisroe in the '77 President's report, though inhibited by inflation from rapid growth, "remains strong."

NAS from page one

made special purpose display systems for scientific uses.

In 1976, after moving to California and working for a brief period for the Rand Corporation, Sutherland joined the Caltech faculty in computer science. Sutherland lives in Santa Monica with his wife, Marcia, and his two children, Juliet and Dean.

What Ho?

A woman flees from temptation, but a man crawls away from it in the cheerful hope that it may overtake him.

NAE from page one

Cannon has been a member of the Academy since 1973, the year before he came to Caltech to take the post of division chairman. From 1970 to 1974 he was U.S. assistant secretary of transportation for systems development and technology, and from 1966 to 1968 he was chief scientist of the U.S. Air Force.



Ye Gods!

Moe: How was your date last night?

Joe: No good. She was just a stuffed shirt.

And Little Fishes.

"Waiter, there's a fly in my soup."

"That'll be ten cents extra."

Gadzooks!

An American meets an elderly Britisher at a sporting club:

A. Care for a game of checkers?

B. No, tried it once, don't like it.

A. Care for a game of chess?

B. No, tried it once, don't like it.

A. Care for a game of tennis?

B. No, but my son will play with you.

A. Your only child, I presume.



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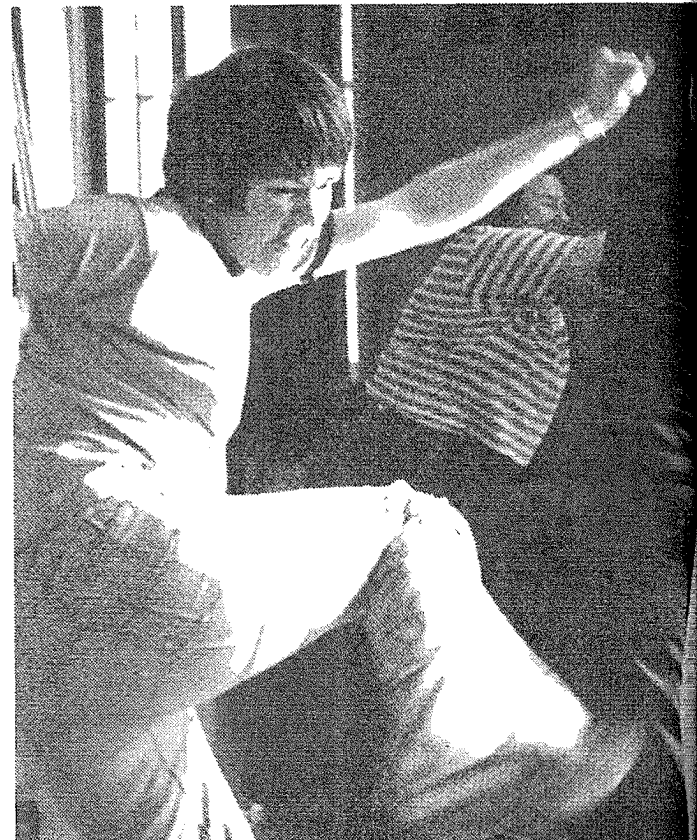
SELF-DEFENSE



It's just a jump to the left...



Hi.....



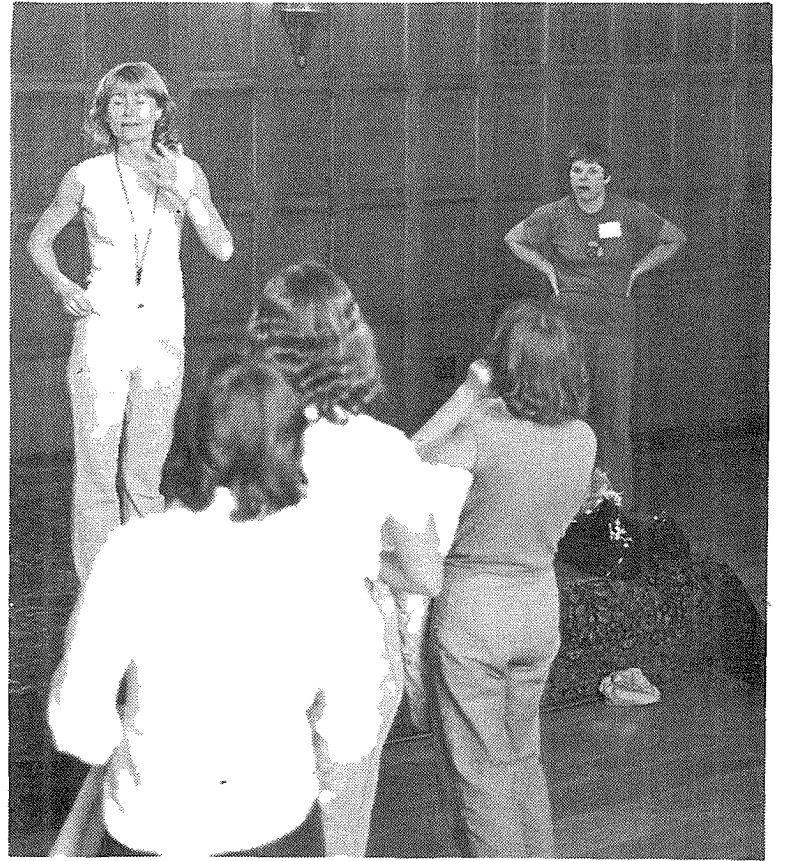
Eat Flaming Death, male chauvinist pillow.

by Dr. Mary Conrad

(Below with the whistle)



umber 69



"Then you hit him."

Photos by Joe DiGiorgio



.....Yal!!



Why is this person grimacing?

NEWS

Dream On

Sigrid McPherson, senior staff psychologist at the Young Health Center, will present a seminar entitled "Dreams and Dreaming," Wednesday, May 3 at 5:00 in the Y Lounge. The seminar will be a presentation on a number of ways to interpret dreams as well as how to begin learning how to make dreams work for you.

Winners

The winners of the *California Tech* writing and photography contest were:

Martin Goldberg for his article on the *Big T* debt.

Joe DiGiorgio for his photos of the cooking contest.

Martin received \$10 and Joe received \$5.

Caltech Wind

Ensemble Concert

The Caltech Wind Ensemble will present a concert on Saturday, May 13, at 3:00 pm in Dabney Gardens. The concert will feature music by Bach, Mozart, Moussorgsky, Kabalevsky, Vaughan, Williams and Sousa. For further information, call Jim Rotter at extension 2157.

Awwwww!!

Dabney House truly regrets that everyone at Caltech is dumping on Ken Rousseau's House. We really love Fleming a lot.

More Jobs

All degree candidates: two companies will be on campus to interview students for possible employment during the month of May. The University of California Lawrence Livermore Laboratory will be interviewing on May 2, and Endevco will be interviewing on May 4. Sign-ups for interviews may be made in the Placement office, Room 8, Dabney Hall.

Part-time jobs: Tutoring jobs in a variety of subjects are available for interested students. Several part-time jobs which have a potential for full-time summer employment are currently available at JPL. Drop by the Placement Office for further information.



Baked Plants?

A plant and bake sale for the benefit of Caltech students will be held by the Caltech Service League on Winnett patio today starting at 9:30 am.

The annual fund-raising event is conducted by the 500-member organization of parents and friends of Caltech students to help support student activities on campus through services, gifts, and cash awards.

In charge of activities are League president Ruth Saffman of Pasadena, bake-sale chairman Frances Shipley of La Canada, and plant-sale co-chairmen Dorothy Dean and Mary Hill of Pasadena. Also involved is League financial secretary Martha Corcoran of San Gabriel, and

treasurer Thelma Cowan of Pasadena.

The Caltech Service League was organized in 1948 under the leadership of the late Doris DuBridge. Continuing activities of the organization include a monthly well-baby clinic for children of Caltech students and research fellows, and a furniture "pool" to help young student-families furnish their homes while they are in school. The League also makes regular contributions to student-activity groups such as the Caltech Y, the student musical, the glee clubs and *The California Tech*.

Bette Davis- In Person and on Film

Bette Davis-- "In Person and on Film" is an evening of nostalgia that features scenes from many of her most memorable films. After a stroll down memory lane, Bette Davis herself takes the stage, bring a walk, a look, a voice-- all so

much a part of the legend. And all this takes place in Beckman Auditorium, Tuesday, May 9 at 8pm. A limited number of tickets remain; unsold and returned tickets will be on sale one hour before the performance.

To Legs! To Legs!

Let it be known hereby that Kellogg's Eighth Light Regiment of Foot does sponsor and does intend to run it's second annual *Runner's World* 24-Hour Relay.

The rules are simple: A ten-man Relay team, where each man runs one mile legs, attempts to pass a baton around the track as many times as possible in 24 hours (e.g., 240 miles translates to 6-minute average miles which requires each runner to run one mile every hour).

The post-track-season spectacular is scheduled for Saturday, May

20, 0900 hours to the same time Sunday on the Caltech track. Sign up lists are now posted in the Gym (KELROF Southern Regional HQ), in Page House (KELROF Easter Regional HQ), and in West Bridge (KELROF Western Regional HQ). Over 30 have signed up so far. We have the capacity to handle as many as five teams. These will include at least one serious team making an all out effort to better KELROF's last year's mark of 247 miles, 375 yards, and at least one team where fast times will be frowned upon attempting to run under the Caltech Cripples without Crutches mark of 189 miles, 850 yards. UG's, Grads, JPLers, faculty and staff are welcome. Officials, timers, and other backup personnel will be needed in great numbers. For more info, call me at x1398 or look us up in the '77 Big T.



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The Seven Return, and Return and...

By Michael Kurilla

This week ASCIT is presenting *The Magnificent Seven*. For anyone familiar with the Japanese film, *The Seven Samurai*, then you already know the plot. Around the late fifties and early sixties, the Japanese cinema became known internationally. Hollywood picked up on the Japanese adventure stories about samurais and converted them to the American counterpart—the cowboy.

Hollywood preserved the story of the seven mercenaries defending a small town from murderous bandits. The action is rather lively, and unless you're usually bored with any Western, you'll probably find the film quite entertaining. Naturally to insure success, the seven are a fairly

impressive group of leading men: James Coburn, Robert Vaughn, Steve McQueen, Yul Bryner (the leader), Charles Bronson, and last but certainly not least Horst Bucholtz.

For anyone who really enjoys the film and wishes to see more, Hollywood has turned out its sequels, although a good deal of hunting is necessary to find them. All the sequels are rather poorly made and come off only as routine Westerns. They include, *Return of the Seven* (1966), *Guns of the Magnificent Seven* (1970), and *The Magnificent Seven Ride* (1972). If you wait long enough, there is probably some script lying around for another one, somewhere. [For example, the *Star Wars* Marvel comics, issues 8-10.—ed.]

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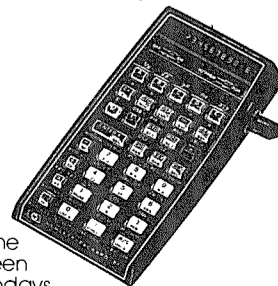
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Milk Builds Bodies in 7 Ways?

PASADENA, CA.—The following is the text of the speech given by Mr. J. Alfred Prufrock to the California Milk Advisory Board, 2-29-78:

"Ladies and gentlemen of the Board, it is my pleasure to present to you the results of the second stage of our "Milk—Somewhere Near the Front" campaign. Most of you know of the sad results of the first stage, the contract with the Physics department at Caltech to design a better cow. Our thought was that the cow had not been improved in recorded history, and advances in milk making had stopped when the cow had replaced the goat. The ideal cow designed by that study has not yet been put into production, due to the lack of massless points to build the spherical cow with. And, as one observer said, it could be a massive, pointless object.

"Now, however, as advertising campaign manager for the Board, it is my proud duty to present the somewhat more successful second stage. It was our idea to use the slogan "Milk speaks for itself," and with this in mind, we commissioned a Chemical Engineering undergraduate at Caltech, a Mr. F. N. Stein, to create a talking glass of milk. Frank, or rather, Mr. Stein, was a

bit more ambitious than we realized...

"It is to Frank's credit that he started off small. After three months of work, he managed to imbue a glass of milk with a human form and a rather high-pitched voice. From a small glass of milk to a half-gallon carton was but a small step, and Frank was soon working on a man-sized 'Milkman' when his troubles started.

"Frank had been devoting so much time to his research that his classes, shall I say, suffered, as his midterms amply demonstrated. I suppose that under such pressure as Frank felt, anyone would have cracked. It was unfortunate, however, that his mind found such an ingenious way to, as the Techers put it, 'Cut throats.' One night, before dinner, Frank snuck around to the kitchens and added his various mixes to the milk to be served at the dinner...

"How can we imagine the terror that those students felt at seeing their milk crawl out of

their glasses, grab table knives, and advance toward them with a menacing glare in their beady white eyes? Still, the attack would not have been as successful as it was had the student's first reaction to run not been stifled by the fact that occasionally the rest of the food moved.

"The full extent of the tragedy was not known, however, until the police went to arrest Frank for the death of 140 of his classmates. Frank had finished the man-sized Milkman, and upon its awakening had given it a joyous hug. It was too bad that he had made it from Food Service milk to save money, and it had surface-ripened into a big cheese. When it hugged Frank back, it crushed him to a pulp. The Cheeseman was so upset that it smashed the surrounding laboratory; and now we shall never know the secret of how Frank animated the milk.

"In fact, all we are left with today is his last work of genius, who has consented to speak at this meeting today. So without further ado: Ladies and gentlemen of the California Milk Advisory Board, I present to you Frank N. Stein's Muenster.

Without Apologies,
The Midnight Punster.

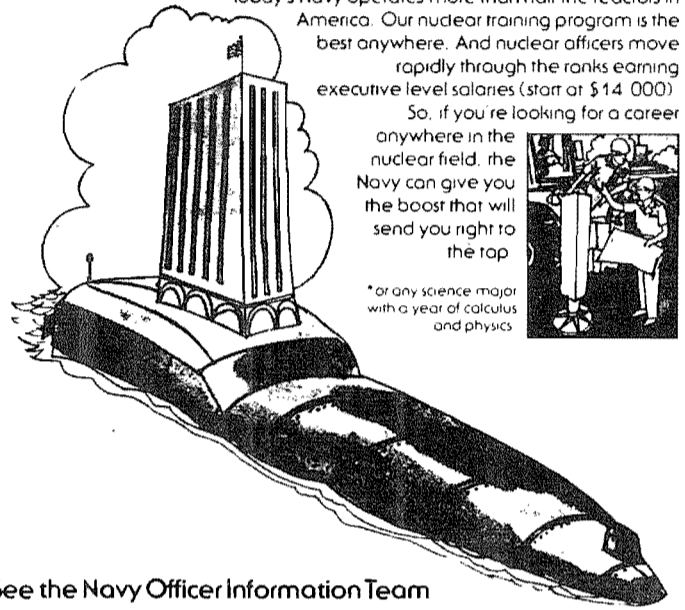
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