

## Trustees Decide On New Logo

by Lily Wu

The Caltech Board of Trustees have made a final logo choice recently, after several months of logo controversy this year. The new official logo is the same one which been temporarily suspended in the beginning of the summer, except the one-handed torch bearer has been replaced by the more familiar 2-handed torch passing. The motto "The truth shall make you free" is not included and the founding date of Throop University, 1891, now appears. The logo is a white design and lettering on a black background. This is called the primary logo. For cases when that color scheme would not be appropriate, a secondary logo with the same design, only black on a white background, was chosen. The further use of any former logos is to be replaced by these two.

The earlier idea that this logo is graphically more appropriate than the former logo with the motto seems to still hold. According to D. Fullerton, Vice President of Institute Relations, the combination of the motto and the school name was too much type and it looked bad, and was hard to read when the logo was reduced beyond a certain size. He in-

dicated that the logo did not matter as much symbolically because it is used mostly just for identification purposes on Institute publications. "The Caltech seal, which is more important, has not been affected at all."

The first logo change this year was made in January. However, the use of that logo was suspended in June because it was felt the January decision was made too hastily and the logo chosen was designed with no regard to the historical significance of earlier logos. The suspension was prompted by a discussion of the issue during a *California Tech* interview with R. Stanton Avery, the Chairman of the Board of Trustees. This final re-design was approved just before classes began a couple of weeks ago. The new primary and secondary logos were designed by Doyald Young.



The new primary logo

## Nuclear Freeze Discussed Film and Speakers Consider Issues

by Julian West

Dr. Robert Nelson and Marvin Schachter were the guest speakers for the Caltech Nuclear Freeze Campaign on Wednesday night. Dr. Nelson, from JPL, is the executive director of the Southern California Federation of Scientists. Schachter was one of the initial sponsors of the Freeze Initiative in California.

They focused on the history of nuclear weapons and arms-control agreements, and pointed out that the introduction of sophisticated American weapons actually increases the threat to the U.S. because the Soviets' ability to respond thoughtfully is limited.

The evening began with the screening of an award-winning film, entitled "What About The Russians?" Through introducing the testimony of a number of highly-ranked experts who appeared in interviews, the film attempted to answer some of the commonly-raised objections to the nuclear freeze proposal.

After the film, Nelson gave a brief speech, centering on the post-war political history of the United States, and relating it to the development of nuclear arsenals.

He observed, in particular, that the SALT I arms limitations treaty was signed by the

Soviets during a period of U.S. intervention abroad.

On the other hand, according to Nelson, the SALT II treaty was negotiated by the Carter Administration, then withdrawn from Congress in the wake of the Soviet invasion of Afghanistan.

Nelson suggested that perhaps it was not important to link nuclear arms control to other issues. He proposed the threat of nuclear annihilation is so great that America should follow the Soviet lead and deal with arms control as a separate issue.

Marvin Schachter spoke about the sudden and widespread political popularity of the freeze movement. It has grown over the past four years from being ignored at the 1980 Democratic convention to forming a major plank in that party's 1984 platform. Even conservatives and Republicans now back a bilateral, verifiable freeze by a 2 to 1 margin.

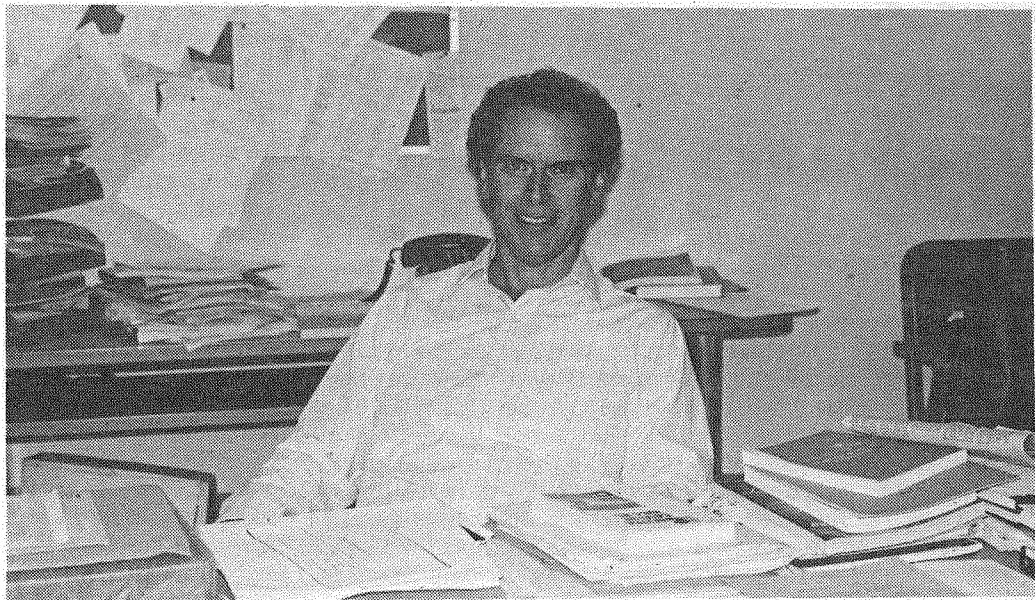
Schachter stressed that a freeze would serve American interests. If we had had a freeze two years ago, he pointed out, the Soviet navy would not now have submarine-launched Typhoon missiles. Furthermore, the Freeze would relieve the strain which the arms buildup places on the U.S. economy.

A discussion period with the audience followed the talks. Most speakers supported the freeze.

One person questioned whether the Soviet people are as informed as Americans about the issues of the arms race. Nelson responded by asking how many people in the audience had watched *Nova* last night.

That episode dealt with an international effort by American and Soviet scientists to discuss issues of nuclear war. When the program was

continued on page 5



Professor Gary Lorden beams over his new domain

—Photo by Min Su Yun

## Lorden Chosen as New Dean

by Julian West

Dr. Gary Lorden was selected as the new Dean of Students effective Monday, October 1.

Lorden, a Professor of Mathematics, replaces another mathematician, David Wales.

The new Dean has had plenty of experience in dealing with Caltech students, having been a Caltech undergraduate himself. He left Caltech with a B.S. in 1962, returning in 1968 as an Assistant Professor. During his 16 years on the faculty, he has served as advisor for numerous freshmen and mathematics majors.

Lorden is perhaps best known to undergraduates as a lecturer in Math 2c, the probability term. He was also "head coach" of Caltech's Putnam Exam team over a successful decade when Caltech won the overall championship five times.

He has also served on a large number of high-profile committees, including UASH, Freshman Admissions, Scholarships and Financial Aid, Academic Policies, and Health.

Lorden feels that his experience as a Caltech undergrad will be an asset in the Dean's job, which includes a lot of individual contact with students. He cites the Honor System as one example—"I regard it as the normal way of life."

The Dean must also represent the students as a whole to individuals on the faculty. "I am expected by the President and the faculty," Lorden says, "to represent student interests to them, at least with respect to the academic program."

But while work with individuals "from the two ends of the curve", as statistician Lorden explains it, is perhaps the main job, "there are certain matters of general policy where the Dean can be influential." Such matters include things like the curriculum and graduation requirements.

Lorden may have some things in mind for the future,

but he says he will suppress his "creative urges," at least for a while. "I plan to learn a lot in the first year," he cautions.

One change which he does promise to make is to bring the Dean's office into the computer age. He wants to hook up to the rapidly expanding campus network, and set up an electronic billboard for complaints.

That would give students an opportunity to give feedback to teachers—"sort of an instant TQFR"—and make comments like 'gosh, problem 6 is hard this week' to which professors could respond. They could also air gripes about requirements or other sore points.

Another role for computers would be to create a data base, in order to keep track of which courses are overcrowded, or which students need advice.

Lorden said he realizes that a mathematics advisor has a somewhat distorted perception of other options, and he wants to understand them better. "I want to start learning about how the students and faculty view the courses and requirements."

He is concerned about "the question of whether Caltech students take on too much, and whether the requirements push them too much." Caltech students "not only take courses that are the envy of the world, but they take more of them," and the new Dean wonders why.

A particular area of his concern is with the freshman loads. One of Lorden's two daughters is now a freshman at UCSB, and he observes that the freshman loads are very different at other universities.

Lorden is also interested in improving relations between graduate students and undergraduates. He thinks that contact between the two groups is stimulating for both sides.

Finally, he encourages students to speak out about their own concerns—not only to him, but to the President and other individuals in authority. "Caltech students tend to be too passive and accepting of whatever is imposed on them," he judges. "They underestimate their influence."

## Shepard Dies

by Chris Meisl

Larry Shepard of San Marino, sponsor of the Don Shepard Award, died two weeks ago after a prolonged illness.

Shepard established his award in 1951 in memory of his son, a former Caltech student, who was killed in an air crash. The award gives students money for cultural luxuries, such as theatre, books, or music. The annual

contest awards three \$300 prizes which have gone to about 130 undergraduate students.

Shepard also began a Fun Fund to enable students to dine out and be partially reimbursed for the expense. Both the Don Shepard awards and the Fun Fund reimbursements are managed by the Master's office.

# the gadfly

Number 1  
An examination of student life at Caltech

## Do We Care?

by Lily Wu

"In mid-February, a fortnight before he was to leave Pasadena [Caltech], Einstein addressed several hundred students. His speech must have been startling to many members of the faculty, particularly to Millikan, whose natural inclination was to believe that all was for the best in the best of all possible worlds. For instead of singing the praises of scientific progress, Einstein asked why it had brought so little happiness. In war it had enabled men to mutilate one another more efficiently and in peace it enslaved man to the machine. 'You feel that this old chap in front of you is singing an ugly tune,' he said.

"I do it, however, for the purpose of making some suggestions to you. If you want your life's work to be useful to mankind, it is not enough that you understand applied science as such. Concern for man himself must always constitute the chief objective of all technological effort, concern for the big unsolved problems of how to organize human work and the distribution of commodities in such a manner as to assure that the results of our scientific thinking may be a blessing to mankind, and not a curse."

—from *Einstein: The Life and Times*, by Ronald Clark

Nothing in this world is free. Alas, no blessing ever seems to be granted without some negative strings attached somewhere. Yet, Einstein's hope that scientific thinking be a blessing rather than a curse does not seem wholly unreasonable. Can it be

possible? If not, then are the blessings worth the price of the curses that we are paying for them? Do we even consider these questions as much as we should when we research and explore new fields? What is the range of unhappiness and imbalances caused by the scientific progress which has created longer lives, airplanes, and televisions?

Even medicine and longer, healthier lives have wrought their share of problems. Nature is balanced just so; everything in it has a purpose including famines and illnesses. Unfortunately, one of their purposes is population control, but it exists because nature also knows she has a finite limit to what she can provide. In our effort to eliminate disease, we upset a balance and poorer nations struggle with starvation, lack of space, and depressed economic conditions. What then? Communication systems, nuclear power, chemicals and bacteria, vehicles and airplanes are all used as lethal weapons of war though each also has countless benign applications. In everyday life, technology has brought us comfort, convenience and leisure time. It has also created pollution, acid rain, new diseases like overweight and heart conditions from lack of exercise and rich diets, a deteriorated ozone, permanently damaged wildlife and nature, and boredom.

All these may seem trivial now, but soon, the problems will start to be more pressing. Already we feel too keenly the threat of nuclear annihilation. In 1961, President Kennedy likened the world situation to the sword of Damocles, a sword which hung only by a thin thread over the head of a king. We suffer from enslavement to machines, which are not perfect yet we treat them as such more and more.

"Why had [technology] brought so little happiness?" Why aren't "life's work more useful to mankind?" Why is it the tendency that scientists only "understand applied science as such?" The allusion to Millikan almost seems to personify that which Einstein hoped to warn against. The inclination is too great among scientists and engineers to oversimplify or even disregard the nature of the non-technical world and non-technical people.

Attitudes even among Caltech undergraduates reflect that. Humanities and social science classes will always be second best and even a source of derision. It is sure to create a laugh for students to disparage the way of thinking and working of philosophers or economists. It is something to be proud of to speak of how little work one got away with in their last humanities class, as if they were clever enough to put one over on the prof. To belittle these fields of study can only serve to perpetuate the sadnesses of technology. A fundamental part of any education is learning and appreciating the value of people, their history and the nature of inter-personal relations. It is foolish to disdain those studies. Science is not the answer to everything, or anything sometimes, and most of all, it can't be conducted in a vacuum. Outside this cozy cocoon called Caltech is a complex world with several billion people and problems to match; and we are ALL citizens of this world, like it or not. However, a broader approach to problems, besides specifically technical ones, is neither stressed nor encouraged here. Who exactly is putting one over on whom?

The old chap does sing an ugly tune, but it must be sung and heard.

## letter

### Apology

To the Editor:

I would like to apologize for the derogatory statements made about the Humanities and Social Science Division in my article "Humanities at Caltech," in the last issue of the *California Tech* (Vol. 86, No. 1).

I disagree with that article's claims about the inferiority of the H & SS division. The error was caused by my cut-and-paste composition style, sleepiness, and lack of later proofreading.

—John Beahan

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### The Caltech Y Fly-by

Friday . . . October 5

Concert, The Stanford Band, 3 PM, on the steps of the Athenaeum.

Sign up for sailing which will be on October 13.

Sign up for a Philharmonic trip which will be on October 12. The program will consist of works by Haydn and Mozart.

Tuesday . . . October 9

Sheila Tobias will host a series of films on space weapons, location to be announced. Sponsored by the Caltech Space Weapons Study Group, The Caltech World Affairs Forum, and the Caltech Y.

Wednesday . . . October 10

Noon Update "Hot Quark Soup: Physics of the Big Bang," David Politzer, Winnett Clubroom 1. Bring a lunch and a friend.

Friday . . . October 12

Noon Concert, details to be announced.

For more information contact the Caltech Y office at 356-6163, or just drop by.

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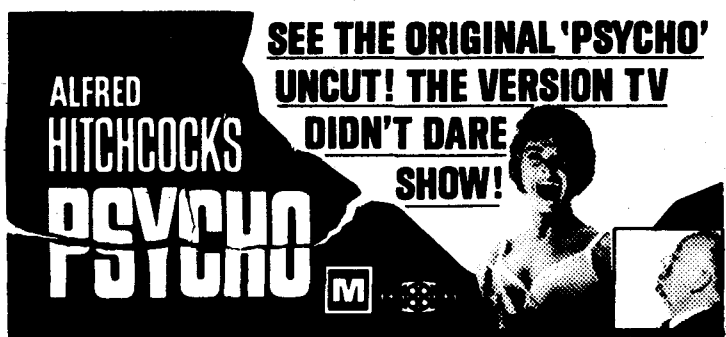
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letters

**Outrage**

To the Editor:

A sense of outrage is a terrible thing to waste, and outrage is just what I feel after reading Steve Pitts' article in the Tech's *Polemic* [vol. 1, no. 1]. Lile Reagan, Pitts has lost all grasp on reality when he writes "...we now enjoy the highest percentage of per capita employment ever in a peacetime economy." Nothing could be further from the truth. The facts, the reality, is that during the last four years the United States has suffered under the highest unemployment in the postwar years, unemployment reaching 10.8% in December of 1982. For

perspective, and in direct contradiction with Pitts' claim, to surpass this figure one has to go back 42 years to the end of the Great Depression in 1940. For the entire year of 1982 unemployment averaged 9.7%, the highest annual rate since 9.9% in 1941 (again, the end of the Great Depression).

The facts: currently unemployment is 7.5%. When Reagan took office in 1981, unemployment was 7.6%; when Carter took office in 1977 unemployment was 7.5%; when Ford took office in 1974 unemployment was 5.5%; when Nixon took office in 1969 unemployment was 3.6%; when Johnson took office in 1963 unemployment was 5.7%; when Kennedy took office in

continued on page 7

**Pride**

To the Editor:

Chris Mihos shows an admirable degree of institutional pride in the Sept. 28 issue of *the Tech* in commenting on Lisa Birnbach's review of Caltech, which he finds "insulting" and "filled with misconceptions, stereotypes, and ignorant judgements." He concludes with the comment, "it is unfortunate that this review had to come out while the Institute is trying its hardest to improve campus life and attract a wider range of interests in the student body."

I feel the same way about John Beahan's article, "Humanities at Caltech," on the same page. If Mr. Beahan had set out to write an attack on the Division of Humanities

and the Social Sciences and had demanded reforms, I would have felt happier about it. Undergraduate education could be better at Caltech, and a discussion about how my division could be improved would be welcome. Alas, apparently Mr. Beahan feels he is writing a sympathetic statement, and that makes his comments hurt all the more.

Mr. Beahan begins with a false assumption, that a "technical institute" like Caltech cannot have a first-rate program in the humanities and social sciences. That assumption is worth examining. I think of two things which work against H & SS at institutions like this one. The first is that Caltech, like MIT, does not have a first-rate library in the humanities. The problem is not insurmountable. The MIT faculty uses Widener Library at

Harvard, and at Caltech we rely very heavily on the Huntington Library, and for areas it does not cover, UCLA and inter-library loan.

A second problem, let's face it, is that a "technical institute" draws a fair number of students who think that "Humanities are BS" and resent having to take their required courses, particularly as Freshmen. If such students predominated at Caltech, teaching here would indeed be unpleasant. Fortunately, there are enough students here who are bright, able, and interested in questions outside the areas of science and engineering so that able faculty stay and indeed enjoy teaching here.

What Mr. Beahan doesn't realize is that Caltech competes effectively in the academic marketplace. The reason is that continued on page 7

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# Notes from here

by Mike Chwe

## Reaganism and Rock'n'Roll

Before the music video debate erupts, let's talk about some other "all image, no substance" sources in our society. Take Ronald Reagan, for instance. He mumbles and jumbles facts and figures, and in general can't tell the truth from his elbow.

In 1966 he managed to say these two lines in the same day, "I'm a fellow who bleeds every time a tree is cut down," and "115,000 acres of trees in the state park is a lot to look at. How long can you look?"

When Reagan remarked, "There you go again" to Jimmy Carter in the 1980 debate, he was in fact wrong. More recently, he has claimed that submarine-launched missiles can be recalled (they can't) and that he himself donated a tenth of his income to charity (really 1.4 percent).

But what an image! Everybody loves him. With Reagan, it seems just like the good old days.

But what about music videos? Most videos are usually strings of images: special effects, explosions, and all-around unbelievables.

In the Jacksons' "Torture" video, one of the five finds himself surrounded by basketball-sized eyeballs. He backs into an eyeball, his hand falls into its pupil, and he immediately jerks it out. His hand is covered with clear gelatinous goo. He watches in horror as an eye forms in his palm and blinks at him.

Now this scene wasn't at all an important scene in the video. It was about twenty seconds long. I don't know about most twelve-year-old kids, but it sure shook me up.

About the women in this video—they had three-inch long fingernails. Their clothes were shredded, dark, and slinky. They were sexy. They were scary.

This from the Jacksons? After the evil-spirited "Thriller"? Is shock-schlock really the best way to keep us interested? I hope not.

There usually isn't anything in a music video which a film critic would call "content." Film reviewer Gene Siskel called music videos "junk." Most videos don't say anything. They just dazzle and frazzle.

But don't be surprised. Industrialized pop music has never said anything. There's about as much content in most pop music as there is nutrition in most soft drinks. Soft drinks are sweet, and taste good. Pop music has a beat, and sounds good.

The music industry has really always been an image industry. Images are made and manufactured; images are marketed; images are sold. I guess pop music gives kids, and teenagers images with which to identify (e.g. lip-syncing?) It gives people a chance to feel

special, to feel sexual. The industry understands and takes financial advantage of the desires of young adults to become full adults.

Reagan is successful because the images he projects are the images we long for. We live in scary, keep-your-eyes-closed times. We're scared of nuclear suicide, scared of the big world over which we once felt supreme, scared of the shifting expectations of the rights and needs of men and women, and scared of different colored and cultured brothers, sisters, and in-laws. Structures of old are deservedly falling

apart, and we want to hide. Uncle Ronnie says, "Don't think about it—I'll kill the monster." We go back to sleep, and dream of Disneyland, Forest Lawn, or holding hands in the back of the chapel. Reagan is all image and no substance.

But images can go awry. Mothers and daughters and fathers and sons are concerned about the images of women in music videos. Maybe the image industry doesn't understand that people might not want to see women as points on a sexiness-nastiness graph. Maybe we want to think of women as more than flesh and fishnet.

Hey, maybe we don't want to see women as Nancy Reagans—"in their place"—either. Maybe we want to see women as more than social and sexual subordinates. Maybe people want, and need, images of women based upon human dignity. Meanwhile, the photos of Reagan and Bush, **continued on page 8**

## Wilderness Training Trip Planned Near Caltech

by Bill Callahan

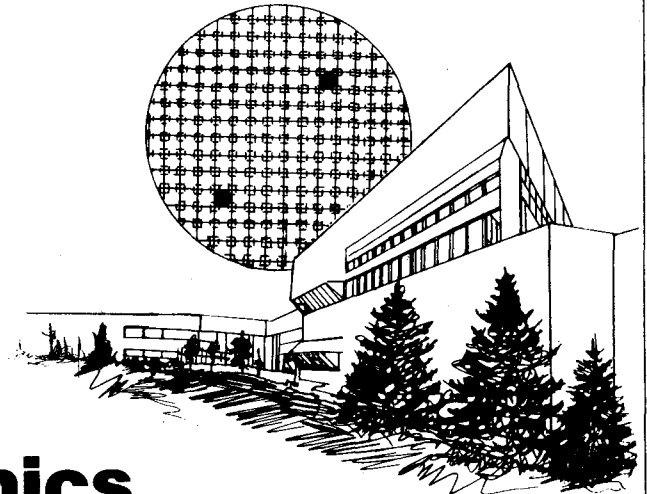
A few Saturdays ago, I had an experience which will stay with me the rest of my life. I went with a group of people up into the mountains only an hour and a half's ride from Tech and took the California Wilderness Training.

On the outside, the training looks like just a day up in the mountains, learning some new skills perhaps, or having some new outdoors experiences. In the training, I climbed up a rope ladder to a tiny platform and jumped for a ring, I teamed up with a partner and made it across some ropes, I rappelled down a bare cliff. These are scary and fun things by themselves, but the California Wilderness Training is more than just that. The people that run it are highly skilled in not

only dealing with the mechanics of doing a safe rappel, but also in dealing with your emotional attitude towards what you are doing. For example, when I did the jump for the ring from fifty feet up, I knew I had this goal in succeeding in getting the ring. What the trainer did was help me get in touch with how I dealt with that. I found that I wanted to do it not so much for me, but to be a good example to the others, since I was the first to go. What I realized was that I do that with a lot of things in my life which involve succeeding at goals.

The training starts early at 7:30 am. You and your group hike in and participate in six events. Some of the things you do seem very risky, but I found **continued on page 9**

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Please see our representative on campus October 11th.







**Buckaroo Reviews** by Matt Rowe**Heady Tunes**

**The Space People**  
*Stop Making Sense* is the most ambitious project yet from Talking Heads, one of America's most consistently interesting bands. *Stop Making Sense* is an album. *Stop Making Sense* is a film (to be released soon) of Talking Heads' concerts last December at the Pantages Theatre, right here in Dead Loss Angeles. *Stop Making Sense* is a booklet (with the album) with a lot of very nice pictures and some very bizarre text. Is *Stop Making Sense* an order? When did Talking Heads *Stop Making Sense*?

**No Music On Weekends**  
 Talking Heads released a live double album, *The Name of This Band is Talking Heads*, just two years ago. What's the point? There's a movie to go with this one, and people would scream if there were no soundtrack album. (Like me.) The album—the noises on it—are presumably an “incomplete experience” without the pretty pictures. So they put a 20-page color booklet in the bag with the record. They put it in the bag with the cassette, too, which has extended versions of most of the songs. (How do you extend a live recording?) The album is secondary to the movie, but the movie isn't out yet, so I'm reviewing the album. There are nine songs. Three appeared on the last live album. Four were on the last studio album (*Speaking in Tongues*). That leaves two songs that are likely to be interesting.

**Soap Operas Are News**  
 These are not love songs. Talking Heads are not pop. Talking Heads were once an art-rock band, but now we call them art-dance. Talking Heads lyrics are not obvious. Talking Heads confuse us. Of the three repeats from the last live album, only one is a better live rendition. (“Life During Wartime” actually has a little *life* in it here.) One is just...different. (“Psycho Killer,” written for two guitars, bass, and drum, appears here played on an acoustic guitar with beat box accompaniment.) Of the four repeats from the last studio album, only one can be easily distinguished from a tape and some canned applause. (“Slippery People,” possibly the best song on *Speaking in Tongues*, gains harmony and an excellent gospel ending.) There is one song from lead singer David Byrne's 1981 solo project *The Catherine Wheel*, a soundtrack for the Twyla Tharp ballet. (“What a Day That Was,” the best track on *Stop Making Sense*, is a sparse song that gets its power from Byrne's impassioned vocals.) My favorite Talking Heads song is also on this album. (“Once in a Lifetime” comes across as precisely the art-pop

continued on page 8

**A New Beat**

(Historical note: The English Beat (or just ‘The Beat’ anywhere but the U.S.) formed in 1979 as part of the British ska (fast, danceable reggae—like the Young I-Publicans) movement. Their albums—*I Just Can't Stop It*, *Wha'ppen?*, *Special Beat Service*, and the posthumous collection *What Is Beat?*—reached higher and higher spots on U.S. charts, and the Beat seemed to have almost broken into the market when key musicians and songwriters Dave Wakeling and Ranking Roger announced they were leaving the Beat to form General Public. A rather unimpressive debut single (“General Public,” included here) is now accompanied by an album, nine months after it was originally promised.)

...*all the rage* is the title of General Public's first album, and, while not an instant classic, it is a well-executed collection of original pop tunes. Had GP not substituted a keyboardist for the Beat's saxophonist (the Jamaican Saxa, included nonetheless on one cut here), it might have been hard telling ...*all the rage* from a Beat album. It continues that group's assimilation of reggae/ska rhythms and styles into more familiar pop textures, while adding some new jazz touches (on “Hot You're Cool” and “As A Matter of Fact”). More importantly, General Public sounds more of a *whole* here than the eight-member Beat ever did—the reason Roger and Dave gave for leaving.

The best song on ...*all the rage* is without a doubt “Tenderness,” the second single. It reminds me of mid-sixties Motown—hummable, danceable, and so full of hooks it's certain to catch any listener. The only complaint I

continued on page 8

**Movie Review****Gods Wreak Havoc**

by Lily Wu

“So what do you want to see tonight?”

“How about *The Gods Must Be Crazy*? It's the new comedy from South Africa.”

“South Africa??!!”

Yes, South Africa. And what a good film, too.

It starts out with a National Geographic-like description of a tribe of bushmen in the Kalahari Desert. Always peaceful and loving as a group, the tribe's centuries-old harmony is disrupted when a pilot carelessly discards a coke bottle as he flies overhead. The bushmen find that this gift from the heavens is useful, but since there is only one, fighting breaks out as each tribe member competes to possess the god-send. The discord eventually prompts the leader to start on a quest to negate the evil brought on by the strange gift.

Meanwhile, not too far away, trouble brews. A sloppy, lazy group of Marxists (whose leader looks like Castro) make a half-hearted effort to assassinate the country's prime minister and they spend the remainder of the film being pursued by the army.

Finally, in a third corner, there is a pleasant anthropologist working on his thesis by collecting animal feces samples and analyzing them. Though usually very normal and capable, he turns into a complete moron in the company of women (like most Tech males). As the story goes though, he is appointed to pick up a new female school teacher from a bus stop and several hilarious comeuppances ensue.

Somewhere amid the sands of the Kalahari, all three subplots become intertwined and we are treated to a fairly

continued on page 8

## SOFTWARE DEVELOPMENT OPPORTUNITIES AT MICROSOFT

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## Pride in the Humanities

from page 3

in the late 1960's the Caltech administration reversed the policy of treating H & SS as a "service-division" and began to offer the same terms to H & SS faculty as to other faculty in the Institute. Salaries are competitive, teaching-loads are moderate, and most important, support for research is excellent.

Contrary to Mr. Beahan's

expectations, Caltech faculty in H & SS perform on the same level as their colleagues at Harvard, Stanford, Chicago or other rival institutions. The proof of this statement is that Harvard and Stanford have recently hired away some of our faculty, and Caltech has hired faculty away from Chicago, Hopkins and Harvard. It would be invidious for me to begin listing distinguish-

ed members of the H & SS faculty, but to anyone who wants to come see me personally about courses I would be happy to name names of first-rate scholars and teachers.

A prestigious faculty is not in itself a guarantee of a fine undergraduate education. The Harvard faculty roster is distinguished, but a student there runs a good chance of being taught, not by one of those distinguished professors but by a harrassed graduate-student teaching assistant. Caltech students benefit mightily from

the fact that there is no graduate program in the humanities and only a small one in the social sciences.

Mr. Beahan has some good words to say about the Division. My regret is that those words of praise and encouragement, like a flower on a dung heap, rise out of a mass of disparagement. In my opinion, he doesn't need to be so modest about his institution. I'm not.

Sincerely yours,

—John Benton  
Professor of History

## More Rage

from page 3

1961 unemployment was 6.6%; and when Eisenhower took office in 1953 unemployment was 2.9%. President Reagan's record on unemployment cannot be compared favorably to the last 10 years, let alone the entire postwar period.

Since it has recently become fashionable in Republican circles to blame the Carter Administration for all the events of the past 4 years, let me hasten to add that unemployment *declined* during the last six months of 1980 and the first six months of 1981.

Pitts' imagination again runs amok when he quotes figures for inflation. The worst inflation sen in the Carter years was 11.8% for 1980—nowhere near the 20% that Pitts claims.

The Reagan prosperity that Pitts speaks of is also false. Office of Management and Budget figures show that the percent of change in after-tax income (adjusted for inflation) from 1980 to 1984 was -7.6% for the fifth of the American households with the lowest incomes and -8.7% for the fifth of the households with the largest incomes. The tax cuts that Pitts speaks of amounted to .1% of the household after-tax income for the fifth of the households with the lowest incomes and 5.9% for the fifth of the households with the highest incomes. According to the Congressional Budget Office, 35% of the 1982 Reagan tax cut went to the wealthiest 5% of the taxpayers. The redistribution of wealth involved here is staggering.

Having disposed of Reagan's tax cuts, might I remind Pitts (who implies that no taxes have increased during the Reagan administration) of the increase in Social Security tax in 1982? Or the increase in gasoline tax in 1983?

It is pointless to go any further—Pitts' article is so ridden with blatant falsehood that any conclusions he might draw could only be considered fantasy.

Why this blizzard of facts, this torrent of figures? Because for the past four years the nation has been seized by a sleeping sickness—a willingness to blindly accept any falsehood, distortion, or manufactured fiction uttered by Ronald Reagan. This sickness has overcome the United States before: it is the same lack of national integrity that characterized McCarthyism—the refusal to face reality in favor of heroic fantasy. How can this illness be fought? The only thing that can be done, and I do that now, is to shine the light of truth into the shadow of distortion. To quote James Michener, "An age is called Dark not because the light fails to shine, but because people refuse to see it." We live in a Dark Age now—the light of truth is present but people refuse to see it.

Steve Pitts says that liberals "refuse to learn from facts." I say that Pitts would not know a fact if it came up and spit in his eye.

—Sam Finn  
Graduate Student, Physics

October 9

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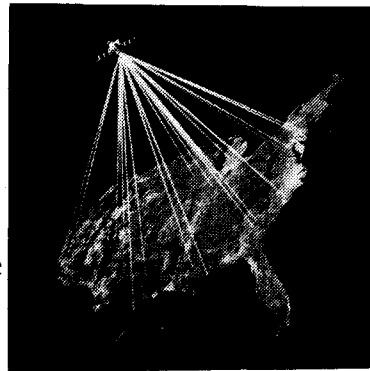
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## General Public

from page 6

have is that Dave Wakeling, General Public's lead vocalist, seems to think he's Smokey Robinson; some of his moans and grunts are more exasperating than sexy—some, but not all. Other standouts include "Anxious," reminiscent of the Specials (another band in the ska revival movement, whose members have gone on to The Fun Boy Three, The Colour Field, and The Special AKA); "Never You Done That," an upbeat revision of "End of the Party" on *Special Beat Service*; and "Are You Leading Me On?," a playful song that leads the listener on with its shifts and stops. There are three of the now-obligatory "political conscience" songs—none a complete success. General Public seems to think "heavier" song topics should have appropriate music, and as a result these songs stand out on an album of otherwise light, upbeat tunes.

The most impressive thing about ... *all the rage* is how easily it carves its own niche. Everyone's doing pop music these days; it's the latest musical revolution. The key to success, as shown by Culture Club, David Bowie, Madness, and scores of others, is to have an original sound. While General Public's sound is perhaps least in evidence on "Tenderness" (the best bet for a hit), if there is any justice in the world the rest of the album will be heard.

Another aid to success is quality—it's all too often ignored, but we can't have it all, can we? While ... *all the rage* isn't vinyl of the caliber of *Purple Rain*, it does have standouts. The most consistently impressive aspect of this album is Dave Wakeling's lyrics. "Someone's been lying/In my bed/Roses to start with/Now nothing in the garden grows," is typical of a lyrical style that can only be compared to Elvis Costello. The King, in fact, seems to be one of Wakeling's main influences on this album—fortunately, for Costello himself has been going downhill recently.

In summary, then: while ... *all the rage* might not be all the rage, it is certainly worth listening to—far more so than *Stop Making Sense* (for example) or David Bowie's new album (from what I've heard). I'd be surprised if you don't end up liking many of the tracks, and besides, a new original band like General Public needs support if it is to ever get off the ground. So buy the album, or at least request "Tenderness" on your favorite radio station. This is really a plug for a personal favorite, but I think you'll like them, too.

General Public, ... *all the rage*, IRS Records, \$7.98 list. Available to the general public.

### Also Recommended:

X, Rank and File, The Knitters, October 26th, Universal Amphitheater. Three of L.A.'s best. The Knitters' acoustic folk is especially recommended.

Lou Reed, *New Sensations*. "I Love You, Suzanne," "My Red Joystick," and nine more of Lou's best since "Walk on the Wild Side."

## Talking Heads

from page 6

masterpiece it is.) The album has a cover: a back, a front; an inside and an outside.

### Body Odor

If *Stop Making Sense* has a pleasant body odor, it is a body with a schizophrenic mind. It has a plain black-and-white jacket. It does not have a clear plastic inner liner; it does not have a white paper inner liner: it has a black plastic inner liner. This costs more, so it must "mean" something. But what? Talking Heads are playing with our minds. The album comes with a clear plastic cover which you can keep to protect the jacket. What will they think of next?

### Sex is a Job

... and people would rather watch things than eat.

Besides, vinyl leaves a bitter aftertaste. There are many things to watch with *Stop Making Sense*. There is a booklet with pretty pictures from the

movie. There are many strange words in the booklet. These words read like Captain Beefheart or Laurie Anderson lyrics, or the plot to a Kurt Vonnegut book. The words I put at the beginnings of paragraphs are from this booklet. There are eleven questions on the back cover. None are answered.

### Civilization is a Religion

Talking Heads are not atheists. They are heretics. *Stop Making Sense* is often hard to believe. As music, it is excellent. As a live soundtrack, it is generally weak, with a few standouts. As a multimedia experimental experience, it may be quite an event, but I won't really know until I see the movie. I'll let you know. *Stop Making Sense* is perplexing. This is an awful thing to write in my first review, but I can only say you'll have to see for yourself. For myself, I am confused, but it is a pleasant confusion.

### Flat Landscapes

*Stop Making Sense* is on

Sire Records. It has a list price (album or cassette) of \$9.98. It cost me \$7.56, plus tax. It is available wherever it can be bought.

## Images from Afar

from page 4

photos of Reagan and Bush, smiling and hugging Dallas Cowboy cheerleaders, look really good.

Images can be oppressive. Images can be liberating. We can either accept and reinforce our insecurities (easy) or we can challenge our insecurities and overcome them (hard.) We need the help of images.

Speech therapists might favor Reagan's cool, comforting speaking voice to the plainer speech of Mondale. But as images go, I like Mondale and Ferraro standing together as a team much better than Reagan and Bush standing together with cheerleaders. As for music videos, Cyndi Lauper's my favorite.

## Chaos Reigns

from page 6

complex plot, memorable performances, stiches of laughter, and also an interesting look at modernization and all that it brings upon us.

This film opened in New York City a few months ago despite demonstrators protesting the film's portrayal of African tribes and the fact that it is a South African film. The objections are not warranted, though. One will notice that far from being mocked, the bushmen are the heroes of this film. It is a well-researched movie and highly entertaining as well as insightful. *The Gods Must Be Crazy* is a great improvement over much of what is being offered to us in the theaters now.

Presently, it is only at the Laemmle's Music Hall in Beverly Hills, but it is worth the trip or certainly worth waiting for a wider release which is sure to come.

# CALTECH public events

<p><b>SCANDIAFESTIVAL!</b> A dazzling display of gymnastics, acrobatics, dancing and music direct from Denmark, Sweden and Norway.</p> <p><b>SATURDAY OCTOBER 13 8 PM</b> Tickets: \$16.00-14.00-12.00</p> 	<p><b>OREGON SHAKESPEAREAN FESTIVAL'S Production Of: "THE TAMING OF THE SHREW"</b> Petruccio has "Come to wive it wealthily in Padua." But will Kate prove to be more than his match?</p> <p><b>THURSDAY &amp; FRIDAY NOVEMBER 15 &amp; 16 8 PM</b> Tickets: \$17.00-15.00-13.00</p> 
<p><b>CAMBRIDGE BUSKERS</b> Playing classical music with an irreverant twist has brought these virtuosos international stardom.</p> <p><b>SATURDAY OCTOBER 20 8 PM</b> Tickets: \$14.00-12.00-10.00</p> 	<p><b>JOSE MOLINA BAILES ESPANOLES</b> Featuring one of the world's primero Spanish dance interpreters.</p> <p><b>SATURDAY NOVEMBER 17 8 PM</b> Tickets: \$15.00-13.00-11.00</p> 
<p><b>BERT HOULE MIME THEATRE</b> The magic and myth of mime conjures up laughter and touches the soul.</p> <p><b>FRIDAY NOVEMBER 2 8 PM</b> Tickets: \$12.00-10.00-8.00</p> 	<p><b>CALTECH GLEE CLUBS present: "A STAR FOR EACH, A CELEBRATION OF MIRACLES"</b> Both Christmas and Hanukkah are celebrated by the Caltech Men's and Women's Glee Clubs.</p> <p><b>FRIDAY, SATURDAY &amp; SUNDAY NOVEMBER 30, DECEMBER 1 &amp; 2 8 PM</b> Tickets: \$7.50</p>
<p><b>HAMBRO PIANO QUARTET</b> 4 Grand Pianos! 352 Keys! 4 Pianists! This quartet will enchant, amuse and astound you with music ranging from light classical to popular.</p> <p><b>SATURDAY NOVEMBER 10 8 PM</b> Tickets: \$14.00-12.00-10.00</p>	<p><b>THE NEW SWINGLE SINGERS</b> With an Accent on Christmas Eight superb singers blend the techniques of jazz scat with the realms of classical and popular music.</p> <p><b>FRIDAY DECEMBER 14 8 PM</b> Tickets: \$15.00-13.00-11.00</p>  <p style="text-align: right;"><i>The New Swingle Singers</i></p>

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The Pasadena Public Library on Walnut St.

## Baxter Show Opens

by Irene Replogle

Baxter Art Gallery opened its 1984-85 season last Tuesday night with "Myron Hunt, 1868-1952: The Search for A Regional Architecture."

Most Caltech students are probably familiar with quite a number of Hunt's designs—Huntington Library and Art Gallery, the Pasadena Public Library, the Rose Bowl, the main building of Huntington Memorial Hospital, Polytechnic School, Throop Hall, Occidental College and numerous other buildings.

Hunt's work is impressive because he was successful at designing a wide range of building sizes and purposes. His designs are also special because he was one of the first architects to try to create a style unique to Southern California, a style that would

reflect the climate and culture of the region.

Baxter's exhibition is the first to celebrate the talent and ingenuity of Myron Hunt. The show documents his work through photographs, sketches and blueprints. Included with photographs and a drawing of Throop is a whimsical photo of the building being destroyed by a wrecking ball.

The Gallery also prepared an elaborate, 120 page catalogue to accompany the exhibition. Its \$24.50 price tag may be beyond the reach of most students, but it is worthwhile to spend a few minutes looking through it. The essay on Hunt's design of the Rose Bowl is fascinating.

Baxter Art Gallery is open every day from noon to 5pm. The Gallery is located in the basement of the Baxter Building.

## Wilderness Training

from page 4

that the sense of danger existed only in my mind. The events are not only safe, but can be done by people who do not consider themselves to be the rugged outdoors type. One woman on my training was forty, out of shape and overweight, but she did every event, including the rappel.

I was so touched by the day and my experience that I came to the Caltech Y to ask for support in making this available to anyone at Caltech. The date will be Saturday, October 20. The Y will help out with transportation. People going on the training will receive a list of some basic equipment needed (a day pack, canteen, broad brimmed hat, sun tan lotion) and some forms needed to register for the day's training. At least fifteen people will be going, with no real upward limit. The cost will be \$50 per person. I know that may sound a little steep for a one-day thing, but I look at it this way: I took two classes this term which required texts, and I'm spending more than that on just those books. And I know that the experience I had that day and the lessons I learned about myself will be much more valuable to me than anything I expect to learn at Tech this whole year. The lessons are things that can't come from books, because they're about you and how you relate to the world. It's worth much more than the \$50 and the time spent, no matter how heavy a load you have this term.

If you are interested, contact me or stop by The Caltech Y.

### Correction:

Last week's article by Hossein Mohammad, "Stone to Speak on Human Rights," mistakenly stated that Proposition A was a California initiative. Proposition A was on the ballot only in L.A. County.

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## Polo Script

by Polo Soph

Fade in...

The scene: A crowded convention floor. Ballots being cast, people cheering, screaming. The President, dressed in Hawaiian shirt and OP's, and bearing a large straw hat, takes the podium. Silence sets in. He clears his voice. "We have a unanimous decision. The winner of this year's award, Mr. Waterpolo of 1984, is..."

Fade to cloudy day, early September. Fourteen polo players, led by Mr. Waterpolo, 1984, take to the pool for another campaign. The weeks roll by: eggbeater, layouts, drive-ins, counterattack drills, RB's, scrimmages, and the return of Squintman.

Mid-September. Sun shining. The fabulous fifteen (with the return of Speed) set off for faraway adventures. Instead, they get lost in a massive smog cloud and end up in Riverside. Cops everywhere. The pool is a pit, reeking with stench and filled with hostile foes. The fifteen take up the challenge. At first, the two teams seem even. Game close. But then...hack! wheeze! cough! The yellowbellied cowards began using their home pool advantage, the air quality, to pull ahead. With the fifteen unable to breathe, the Yellowbellies win going away. A dispirited Fifteen return home.

Clint's house. Watch and learn time. Some just sleep. The others learn lots of interesting facts about waterpolo (did you know that a waterpolo pool has no bottom and is filled with honey in the last two minutes of a game? Or that it's just like basketball only with 90% of the action taking place underwater? Several of the Fifteen changed majors to Chiropractology. They soon began practicing it, right in the pool.

Quick scene shift up the 110 to the pool. Clear, bright, clean. Large crowd for the home opener. Clever manipulation of the road signs leave half of the enemy lost somewhere in the jungle of downtown Glendale.

But the remnant, having survived the little scam, come out with a vengeance. Quickly, they're off to the races, leaving the Fifteen initially stunned. Behind Mr. Waterpolo, the Fifteen rally, but, alas, it's too late. The rest of the enemy arrives from out of the jungle to defeat our heroes, with the timely aid of a 300-pound blubber whale from the South Pacific.

Scene: day after Frosh camp. Large crowd in the pool. YOU mean all we have to do is beat a bunch of out-of-shape girls in a scrimmage and we can double the size of our team? Dodd writes up a new recruiting pamphlet: scrimmages with the girls every week. Learn all those wonder-

ful skills yet again. Frosh get hour-long drive-in drill, while 'starters' get a non-stop drill designed to exhaust and confuse.

Climax: The crosstown rivals come to our place. The Fifteen now plus ten, fall behind early, thanks to some refs who can't tell the difference between the 2-meter line and the 2-inch line. But our heroes regroup and come storming back. But then, a disaster. An advantage is thrown away. The momentum shifts. Soon, it's out of reach

as they pull away. New guys get to play with a clueless sophomore, who is quickly thrashed within inches of his life in death alley (hell—I still don't know what that is).

Closing scene: Rotation meeting. Drunken author. Paper airplanes fly. Flush. Take another swig of Cooler, write another sentence. The mind buzzes. The head swims. God, I'm gonna be sooo hung over tomorrow. How can I finish this off? I know, a team....

Pass out—total darkness.

## Volleyball Starts

by Busy Sue

Last Saturday the Caltech women's volleyball team (do not say "beaverettes") played their first game. Usually, the first game of the season is a complete disaster and I do not want to talk about Saturday's game, except to say that it was the best of all possible disasters.

On the team this year are several returning players, five new people and a whole new

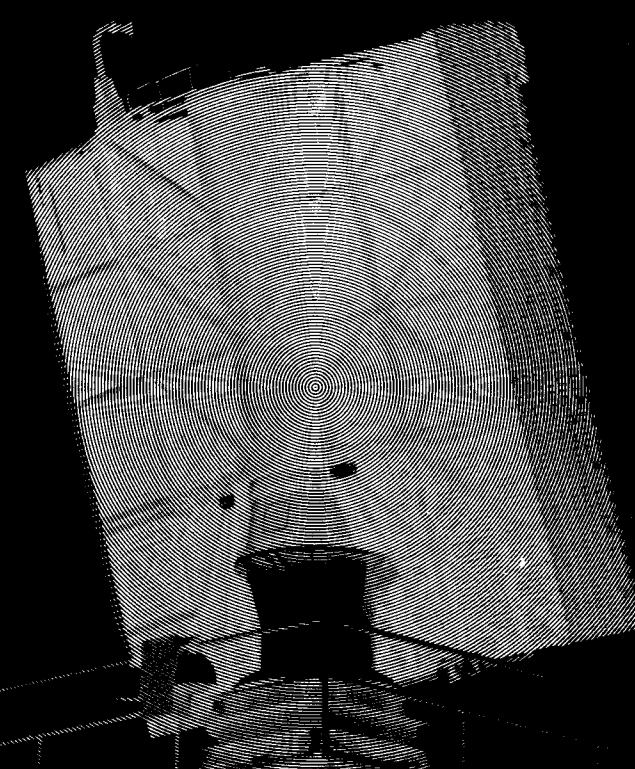
coaching unit. The returning players are (in no order at all) Cris Morris (middle blocker) Chris Tiller (setter), Lynn Hildeman (setter), Leslie Lipard (unspecified) and Irene Replogle (defensive specialist). The new people are Nicole Vogt (middle blocker), Jeanine Gainey (unspecified), Linda Schleuter (defensive specialist), and Tammy Chou (setter). Our new coaching unit is head coach MJ Babiac and assistant coaches John and Marty.

I suppose I ought to say

continued on page 11

EE, ME, CS Graduates

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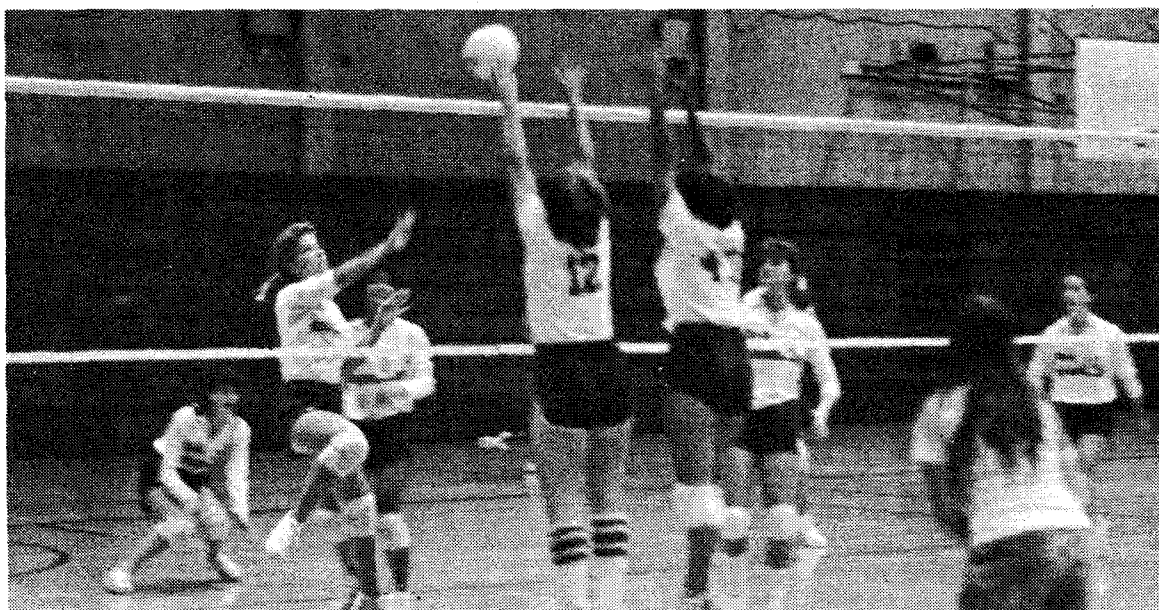


sports

from page 10

more about Saturday's game. We knew we were in for a tough match as soon as the Claremont-Harvey Mudd-Scripps team showed up. Every one of them was tall. One chick was probably 6'3", and she wasn't even their best hitter. We played two games (best two of three match). In the first game everyone played well, except that most of us couldn't serve the ball over the net to save our lives. We lost, 15-7. The second game lasted only ten minutes and I'm not telling anyone the score.

Our next home game is on Friday evening—be there and be prepared for some Unh-HOT volleyball action. Unh-Huh!



Chris Tiller jumps to block volleyball

—Photo by Min Su Yun

are interested in completing the team, talk to Coach Neal.

The Men's 5.1-mile race was also interesting as the week's strategy of "training through" this competition almost backfired. A loss to Occidental was inevitable and the Caltech team thought they could stomp on La Verne even if they worked out very hard all week. An exhausted team toed the line early Saturday not quite ready to go. Oxy dominated by taking the first six places, but Sean Moriarty held the score to 15-49 by outrunning their seventh man. A perfect score is 15-50. In the race against La Verne, Caltech had first place, but was surprised by three La Verne runners who were faster than expected. Now the only way Caltech could win was to finish the rest of its scoring runners ahead of any of La Verne's. Freshman John Gehring led Darin Acosta and Mike Jensen in far ahead of La Verne's next runners, While Dan Bikle helped save the day by passing them near the finish. Andy Wolf and John Luo rounded out the Tech varsity seven this week by staying near La Verne's fourth and fifth men. The final score was Caltech over La Verne, 27-28. Our gamble had paid off. Afterwards, the team had its traditional ice cream stop before returning for that last exciting rotation lunch.

## X-Country Races Against Oxy and La Verne

by Big Mo

The Caltech cross-country team raced against Occidental and La Verne Colleges in its first league competition last Saturday morning. The races were held on Caltech's scenic home course at Lower Arroyo Park near the end of California Blvd.

The women's race was exciting as Jenny Haase and the top two Oxy runners left the rest of the field, with Clea

Bures and Marit Nilsen in the middle of it, behind from the start. This lead pack broke apart halfway through the 3.1 mile race. Jenny easily left one Oxy woman behind but could not stay with the other. She finished in second place against one of the strongest teams in the league and well ahead of the La Verne squad. Still, Caltech had to forfeit because it doesn't have five women runners this year. Please, if you

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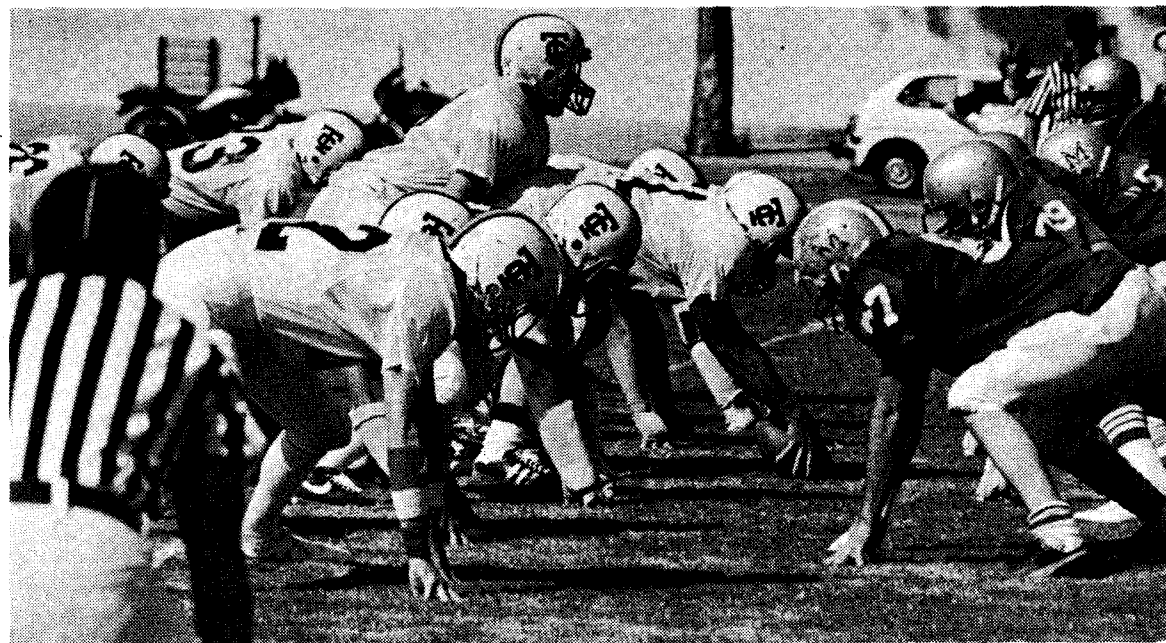
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Caltech Beavers at the scrimmage line

—Photo by Min Su Yun

## Weekly Sports Calendar

DAY	DATE	TIME	SPORT	OPPONENT	LOCATION
Fri.	10-5	3:00 pm	Football	U. of La Verne JV	Caltech
Fri.	10-5	7:30 pm	Women's Volleyball	L.I.F.E.	Caltech
Sat.	10-6	9:30 am	Cross Country	Whittier	Biola
Sat.	10-6	10:00 am	Soccer	Whittier	Whittier
Sat.	10-6	10:00 am	Water Polo	Alumni	Caltech
Sat.	10-6	2:00 pm	Women's Volleyball	Redlands JV	Caltech
Tue.	10-9	6:00 pm	Women's Volleyball	Occidental JV	Occidental
Wed.	10-10	3:00 pm	Soccer	Occidental	Caltech
Wed.	10-10	4:15 pm	Water Polo	Cal State L.A.	Caltech
Fri.	10-12	3:00 pm	Football	Redlands JV	Caltech
Fri.	10-12	3:00 pm	Soccer	Pomona-Pitzer	Pomona-Pitzer
Fri.	10-12	6:00 pm	Women's Volleyball	Clare-Mudd-Scripps	C.M.S.
Sat.	10-13	9:30 am	Cross Country (M/W)	Whittier	Pomona-Pitzer



## announcements

Material for the announcement section of the Tech must be submitted typed on or with the Announcement Form available at the Tech office by the Tuesday before the Friday of publication

### Attention Freshmen

Every year, ASCIT publishes the *Teaching Quality Feedback Report*, better known as the TQFR. It contains valuable information about courses which may help you in the future. If you want a copy, it can be picked up at the Registrar's office.

### Putnam Sign-Up

The annual intercollegiate Putnam Mathematical Contest takes place this year on Saturday, December 1. The competition is open to any regularly enrolled Caltech undergraduate. To register for the exam please enter your name on one of the sign-up sheets in Sloan before Tuesday, October 9.

The exam will be held in rooms in Baxter. The morning session begins at 8:45; the afternoon one at 1:00 pm. The Mathematics Club will sponsor a warm-up session during the last week in November. Details to be announced.

As individuals you compete with other undergraduates in colleges in the U.S. and Canada. There is also a team competition. Last year our team of Bradly Brock, Alan Murry, and Charles Cuny took first place. Are we in a monotone non-decreasing sequence? It's up to you! Sign up today.

### MIKADO Auditions

Auditions for the annual Caltech musical will be held on Saturday and Sunday, Nov. 17 & 18, from 10 am to 6 pm in room 25 Baxter. This year's show is Gilbert & Sullivan's *The Mikado*. All Caltech and JPL affiliates — students (undergraduate and graduate), faculty, staff, and friends — are invited to participate in the production. Performances are the last weekend in February and the first weekend of March, 1985.

### Film Showing

The film *Stroszek*, directed by Werner Herzog (German-English subtitles) will be shown in conjunction with the elementary and intermediate German class (L132 and L130) on Monday, October 8th at 7:30 in Baxter Lecture Hall. All are invited to attend.

### C.L.A.G.S.

The Caltech Lesbian and Gay Society (CLAGS) will be having its first meeting of the year this Sunday at 2:00 pm in 210 Baxter. We will be planning this term's social events. Munchies will be served. Everyone is welcome.

### Chinese Club Dinner

Are you into kung-fu movies, Chinese food, or any other aspect of Chinese culture? Or are you interested in experiencing any of the above? If so, come to the Chinese Club orientation dinner, Saturday, Oct. 6, from 7 to 10 in Winnett Clubroom 1 (upstairs, south end). \$4 for membership (which includes many benefits) and \$4 for dinner. Asian background is *not* required; we welcome everyone!

### New Post Office

For those of you who haven't noticed, the Catalina Post Office Station is no longer on Catalina. After a year-long hiatus and remodeling, it's now at 967 E. Colorado. The window section is open from 8:30 am to 5:00 pm.

### Job Conference

Tuesday, October 9, a job fair will be held via satellite in Dabney Hall Lounge, from 9 am to 12, repeating from 12 to 3 pm. The broadcast originates in Washington D.C. and is being received at 30 universities nationwide. Representatives of major technological corporations will discuss what kinds of positions are available with their companies. There will be a phone in Dabney Lounge so students can ask questions of the representatives and hear them answered on the TV screens. Although there will not be actual interviewing during the event, many of the companies participate in campus interviewing at Caltech; there will be literature available to take home. Free T-shirts will be given to the first students attending each session. There will be an over-the-air nationwide drawing for TI Scientific Calculators and a Grand Prize, a personal robot. (Students do not need to attend the entire broadcast to be eligible for the drawings.) The format is informal, so drop in for a free hour between classes. For more information, see the ad by BPI SOURCE in this issue of the *California Tech*.

### Women's Group

The Caltech Y lounge will be open for undergraduate women every Saturday from 1 to 6.

### Minority Students

Minority students in engineering planning to continue in grad school for a Master's Degree are invited to apply for the GEM fellowship which pays tuition, fees, and a stipend of \$5,000 per graduate academic year. You must be a junior or senior and a U.S. citizen. Applications are in the Career Development Center, 08 Parsons-Gates. Deadline is December 1, 1984.

### SURF Seminar Day

Saturday, October 13 is SURF Seminar Day. SURF students will give 20-minute presentations of their summer research projects between 1:30 and 4:30 pm at various locations as listed below. Everyone in the Caltech community is welcome to sit in the sessions.

Session 1, 102 Spalding, topics in Biology.

Session 2, 104 Spalding, topics in Biology.

Session 3, 106 Spalding, topics in Chemistry and Chemical Engineering.

Session 4, 113 Spalding, topics in Chemistry and Chemical Engineering.

Session 5, 111 Dabney, topics in Mechanical Engineering, Environmental Engineering Science, Social Science.

Session 6, 115 Dabney, topics in Engineering.

Session 7, 121 Dabney, topics in Geological and Planetary Sciences.

Session 8, 125 Baxter, topics in Physics.

Session 9, 127 Baxter, topics in Physics.

Session 10, 128 Baxter, projects from JPL.

Session 11, 210 Baxter, topics in Computer Science.

Session 12, 218 Baxter, topics in Engineering and Computer Science.

### Watson Fellowships

Essays for the Watson Fellowships are due on Friday, October 19. Seniors interested in applying for these travel fellowships should talk to Gary Lorden in the Deans' Office, 102 Parsons-Gates.

### The Coffeehouse

Is Open.

### Student Shop Meets

The first term meeting of the Caltech Student Shop will be held Saturday, October 6 at 1:30 pm. Locks will be re-keyed, so both new members and old who wish to renew must attend. We will try to organize a general clean-up—so be prepared to spend the required hour of work.

### The Big T Is Here

If you haven't already done so you may pick up your copy of the 1983-1984 *Big T* in either the *Tech* office (107 Winnett) or Rm. 220 Ruddock. Graduates may also pick theirs up if they do not wish to wait for the graduate mailing.

### Westbank Talk

Yoav Ben-Horin, political and military analyst at the Rand Corporation, will speak and answer questions regarding Israel's complex situation in the West Bank in a talk on Tuesday, October 9th in Winnett Lounge. The talk will be at 4:30 pm.

### Give Tours

We are low on campus tour guides. If you would be interested in giving tours of the campus please contact either Karla Peterson in Ruddock (x6182) or Jacqueline Burle in Public Relations (x6228).

### Big T Needs You

Are you tired of seeing these little blaring paragraphs every week that ask you to work for *the Tech*? Well, we sure are, and knowing that you, dear reader, are sophisticated, visual, creative and way cool, we're putting this mellow paragraph in *the Tech* to appeal to your more compelling interests. Who are we? We're the editors of *The Big T*, Caltech's one and only yearbook, and if you can take pictures, do layout, write, drink coffee, bullshit artfully or just hang around, you'd be more than welcome to join the staff of what promises to be the best yearbook in a pig's memory. Economic, social and under-the-table remuneration is available for those who desire it. So join already! The first meeting for all those interested in *The Big T* will be next Thursday, Oct. 11, 8 pm at the Red Door Cafe. Be there or be round. For more information, call Glen at 578-9079 or Anirvan at 449-5682.

### Wealth! Power!

Fame and riches could lie ahead for Techers who can negotiate the hazards of organization, finance, cash flow, and control. Entrepreneurship in high-tech ventures, its promise and perils will be the focus of the Caltech/MIT Enterprise Forum, scheduled for October 16 in Baxter Hall.

The Enterprise Forum, co-sponsored by the Caltech Industrial Relations Center and the MIT Alumni Association will hold a series of monthly meetings featuring the president of a high-tech company who presents his or her business plan. The plan is critiqued by panel of experts from related business fields, who pose the hard questions regarding funding, marketability, and growth potential.

The first meeting will feature Luis Villalobos, president of Conographic Corporation, a two year old computer graphics company in Newport Beach, now doing about \$3 million in sales. Representative from Conographic will display their video equipment at the close of the presentation and open discussion will follow.

Techers with entrepreneurial aspirations are invited to attend. Baxter Hall will be open at 6:00 pm for informal discussion and light supper; the presentation will begin at 7:00 pm. Reduced admission fee for CIT students with ID is \$5.

Please call Bonnie Baker at 356-3916 to register.

### LSJUMB Returns

The Leland Stanford Jr. University Marching Band will play a concert on the Athenaeum east steps this Friday afternoon at 3.

The performance will be in lieu of the Friday Noon Concert usually held on the bookstore quad.

The concert is presented by the Caltech Y which has brought the Stanford band to the campus twice in recent years.


The band will practice music and formations on the Polytechnic football field on Friday from 1 to 3 and on Saturday morning from 9 to 11. Later on Saturday they play in the Rose Bowl for the Stanford UCLA game.

### Tech Staff Meets

Monday at 12:15 pm in 127 Baxter. All are Welcome.

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