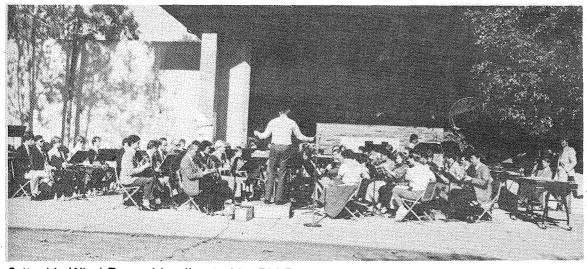
# THE CALIFORNIA

IECH

VOLUME 86

■PASADENA, CALIFORNIA / FRIDAY, DECEMBER 6, 1984



Caltech's Wind Ensemble, directed by Bill Bing, in Friday's Noon Concert

# Dabney Flames

by Joe Beckenbach

Dabney House was jolted away from study and sleep last Friday morning around one o'clock by cries of 'fire' and the now well-recognized fire alarm klaxon.

The fire apparently began when a desktop candle in a Dabney room burned down completely, setting alight papers on the desk. The two occupants of the room awoke to the smell of smoke.

Dan Harrison, a sophomore in Dabney, heard the alarm

and cry of 'fire' from his seat their own alleys. Those ex-damaging some. The fire scortinguishers were not needed; ched the wall behind the desk ficer and two firefighters arriv- desk.

ed scant minutes later, the fire had already been snuffed out, and the room and adjoining hallways were being aired out.

The occupants of the room in the house lounge. He took escaped uninjured. The off for his room, grabbed a desktop was burned in one fire extinguisher, and seeing place; a wooden shelf unit on the person who had come into the desk was charred; the conthe courtyard calling out 'fire', tents on top of both were burnran immediately to the afflicted ed. One shelf supported by room. Two other up- metal brackets had given way, perclassmen were close on his dumping the books it containheels with extinguishers from ed onto the desktop and floor, Harrison put out the fire, keep- and caused smoke damage to ing it from spreading off the little of the room's contents, desktop. When a security of- mainly on shelving about the

# Eleven Alumni **Among Top 100**

scientists chosen by Science Digest in its December issue.

Six of the eleven chosen received their Ph.D.'s in physics. Of them, Steven Beckwith ('78) is now working at Cornell on protostars (young stars) and the matter surrounding them. France Cordora ('79), a project scientist at Los Alamos, is studying the most glamorous of space anomalies, white dwarves and black holes.

William Press ('73), an astrophysicist at Harvard, is postulating on theories to explain the birth of galaxies. Working at Sandia National Labs, Gordon Osbourn ('79) is involved in developing new semiconductor substrates. Douglas Osheroff ('76) does low-temperature and solid state research for Bell labs.

Receiving his doctorate at age 20, Stephan Wolfram ('80) studies the mathematical nature of complex patterns which occur in nature. He works at the Institute for Advanced Study.

Thomas Weaver ('71), the

Eleven Caltech alumni are only undergraduate alumnus. among the 100 brightest young played a key role in the development of the nuclearpowered x-ray laser at Lawrence Livermore Labs.

Richard Muller (MS '57,PhD '62), who graduated in electrical engineering, is now researching the possible existence of a companion star to the sun. Sharon Long (BS '73 ISP) is currently a molecular biologist at Stanford and researches the secrets of plant genetics for agricultural pur-

Two Ph.D.'s in chemistry were also selected. Bill Wadt ('75) works on refining methods for plutonium isotopes to be used on warhead production at Los Alamos. Mark Wrighton searches for solutions to our energy crisis by finding fossil fuel substitutes. He is a member of the faculty of the Massachussetts Institute of

Technology.
The 100 scientists were selected by a panel of 60 "nominating senior scientists," one of which, Seymour Benzer, is on the Caltech faculty.

# Book Of Feynman Anecdotes Is Published

### **Book Review**

by Lily Wu

"Surely You're Joking, Mr. Feynman!" by Richard P. Feynman, as told to Ralph Leighton, edited by Edward Hutchings. W. W. Norton & Company, \$16.95.

Unfortunately, I received a copy of "Surely You're Joking, Mr. Feynman!" to read three weeks before finals. I had lots of assignments to catch up on. I knew I couldn't afford the time to read an entire book, so I figured I could probably write a decent review and select a chapter for printing by reading only 2 or 3 main chapters. Once I started. though, there was no turning back. After every chapter of comeuppances, I had to read another one, until the entire book was read.

Professor Feynman has compiled a most entertaining set of personal experiences starting from his childhood in Far Rockaway, through MIT, Princeton, Los Alamos, Cornell, and finally, on to Caltech. The book provides insight into the development of modern science and also the development of society amid this technology. In the center of the stage with the science backdrop is the story of one person's pursuit of truth and knowledge in this crazy world, while always maintaining a sense of integrity and humor.

On the face of it, it would seem unlikely that all those continued on page 3

# An excerpt from the chapter "An Offer You Must Refuse"

Cornell had all kinds of departments that I didn't have much interest in. (That doesn't mean there was anything wrong with them; it's just that I didn't happen to have much interest in them.) There was domestic science, philosophy (the guys from this department were particularly inane), and there were the cultural things—music and so on. There were quite a few people I did enjoy talking to, of course. In the math department there was Professor Kac and Professor Feller; in chemistry, Professor Calvin; and a great guy in the zoology department, Dr. Griffin, who found out that bats navigate by making echoes. But it was hard to find enough of these guys to talk to, and there was all this other stuff which I thought was lowlevel baloney. And Ithaca was a small town.

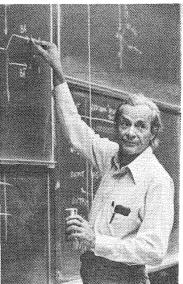
The weather wasn't really very good. One day I was driving in the car, and there came one of those quick snow flurries that you don't expect, so you're not ready for it, and you figure, "Oh, it isn't going to amount to much; I'll keep on going."

But then the snow gets deep enough that the car begins to skid a little bit, so you have to put the chains on. You get out of the car, put the chains out on the snow, and it's *cold*, and you're beginning to shiver. Then you roll the car back onto the chains, and you have

this problem-or we had it in those days; I don't know what there is now-that there's a hook on the inside that you have to hook first. And because the chains have to go on pretty tight, it's hard to get the hook to hook. Then you have to push this clamp down with your fingers, which by this time are nearly frozen. And because you're on the outside of the tire, and the hook is on the inside, and your hands are cold, it's very difficult to control. It keeps slipping, and it's cold, and the snow's coming down, and you're trying to push this clamp, and your hand's hurting, and the damn thing's not going down-well, I remember that that was the moment when I decided that this is insane; there must be a part of the world that doesn't

nave this problem. I remembered the couple of times I had visited Caltech, at the invitation of Professor Bacher, who had previously been at Cornell. He was very smart when I visited. He knew me inside out, so he said, "Feynman, I have this exra car, which I'm gonna lend you. Now here's how you go to Hollywood and the Sunset Strip. Enjoy yourself.'

So I drove his car every night down to the Sunset Strip-to the nightclubs and the bars and the action. It was the kind of stuff I liked from Las Vegas-pretty girls, big operators, and so on. So



Professor Feynman

Bacher knew how to get me interested in Caltech.

You know the story about the donkey who is standing exactly in the middle of two piles of hay, and doesn't go to either one, because it's balanced? Well, that's nothing. Cornell and Caltech started making me offers, and as soon as I would move, figuring that Caltech was really better, they would up their offer at Cornell; and when I thought I'd stay at Cornell, they'd up something at Caltech. So you can imagine this donkey between the two piles of hay, with the extra complication that as soon as he moves toward one, the other one gets higher. That makes it very difficult!

The argument that finally

convinced me was my sabbatical leave. I wanted to go to Brazil again, this time for ten months, and I had just earned my sabbatical leave from Cornell. I didn't want to lose that. so now I had invented a reason to come to a decision, I wrote Bacher and told him what I had decided.

Caltech wrote back: "We'll hire you immediately, and we'll give you your first year as a sabbatical year." That's the way they were acting: no matter what I decided to do, they'd screw it up. So my first year at Caltech was really spent in Brazil. I came to Caltech to teach on my second year. That's how it happened.

Now that I have been at Caltech since 1951, I've been very happy here. It's exactly the thing for a one-sided guy like me. There are all these people who are close to the top, who are very interested in what they are doing, and who I can talk to. So I've been very comfortable.

But one day, when I hadn't been at Caltech very long, we had a bad attack of smog. It was worse then than it is now-at least your eyes smarted much more. I was standing on a corner, and my eyes were watering, and I thought to myself, "This is crazy! This is absolutely INSANE! It was all right back at Cornell. I'm getting out of here."

continued on page 3

An examination of student life at Caltech

# A Matter of Time

by Lily Wu

Among the score of columns that I have written under the banner of "An examination of student life at Caltech," the one topic which has persistently been suggested to me, and equally persistently rejected by me is the women's issue. The superficial reason has been that it is often seen as not very credible when a woman writes about women's issues. That may seem like a strange idea, but somehow, I have always gotten the impression that society identifies articles on the topic written by men as being more rational and reasonable. Therefore, the possibility, and likely the probability, that I would be writing to a pre-biased audience dissuaded me.

The second and more valid reason has been the nature of my opinion on the issue. Most people who know me would assume that I would be a very enthusiastic proponent of women's rights and women's lib and the whole feminist movement. They are correct to the extent that I am ardently in support of equal rights and since women typically suffer from the short end of unequal imbalances, I am therefore, by implication, ardently in support of women's equality movements. However, what complicates my views are the often blatant examples of reverse discrimination which are currently used to correct old discrimination problems. The cases of attempts to assert women's rights at the expense of men's rights happens most often in technology. My dilemma is therefore, that while I approve of equality movements, I disapprove of the methods that are used. It is difficult to object to current efforts while still expressing a hope that efforts will be made.

Before going any further, let me first define what the "issue" is. In most challenging fields of study (not secretarial or factory related), women have had to deal with hiring discriminations in both industry and academia. Some areas were extreme enough that they did not hire women at all, and if they did, the women were often faced with unfavorable work conditions, such as lower pay for comparable duties, non-promotions, discriminatory attitudes from co-workers, and even harrassment. The result of decades of this discrimation has been that the percentage of female employees is especially low in professional positions.

Caltech, infortunately, was in the category of not hiring women at all for anything more than secretaries. No female students were accepted or even considered and the thought of a female faculaty member was laughable 25 years ago. Things have gotten better though. Caltech has begun to recodnize the inequity of the situation and is making active efforts to correct it in all the academic levels. (A cynic would probably point out here that Caltech recognizes it soley because of peer pressure - most other major colleges have far better female-male ratios from student level on up - and government pressure which is exerted heavily by affirmative action laws.)

In some ways, the situation has improved in a funny way. The undergraduate women's admissions policies have always unsettled me. The concept of the pre-frosh women's weekend is a clear case of reverse discrimination. In the name of equal rights and opportunities, there can be no justification for offering to pay one-way visiting expenses for female and not male acceptees. I have also always suspected that a female applicant is given some advantage over her equivalent male applicant in the Institute's desparation to make the ratio more presentable. That is a suspicion, though, that all Institute officials would have to hotly deny regardless of the truth of the matter.

Edges like those exist for females in industry too. Many engineering companies are very eager to make their ratios more presentable as well. I have often felt that I had a hiring edge over my equally well-trained male peers, and even some who are a bit better trained because I am female. Some of the larger comcontinued on page 4

> " ASCIT MOVIE **TONIGHT at 7:30 and 10:00**

The Pink Panther Strikes Again

in Baxter Lecture Hall 50¢/SCIT members \$1 all others

## letters=

### **Futher BOC Issue Arise**

To the Editor:

This letter is in response to that of B. Tiemann in your of 11-30-84. As the BOC representative of Ricketts House at that time I was aware of the alleged violation that he refers to and was present when the then Chairman of the BOC, E. Sutton, was informed of it. I am of the opinion that the case should have been brought before a quorum of the BOC so that a fair decision could have been made in the light of the accrued evidence. That was never to transpire and I was later to learn that Sutton had decided to drop the case without consulting the entire BOC. While I am not at liberty to divulge any details, I feel that Sutton's investigation left much to be desired.

There is the argument that the Chairman cannot be expected to bring each and every putative violation that is brought to him/her to the attention of the BOC. This, however, is conducive to a miscarriage of justice as exemplified by the case in question. The argument against the 3(f) of the ASCIT by-laws the Board is convinced that These new evidence or changed connot be invoked in its defence as (which would have required a suffice. If anything,

rather by a single individual, viz. the Chairman. The rest of the Board cannot be held culpable for the actions (or lack thereof) of a single member.

The issue brought up by Tiemann is but symptomatic of a deeper malaise, viz. the pathetic vagueness in which the ASCIT by-laws decreeing the actions of the BOC are couched. This problem is further compounded by the secrecy under which the BOC conducts most of its proceedings. One also suspects that at least some cumulative changes. To illustrate, the BOC recently decided that the concensus of the Chairman, the Secretary and one other member (usually the House Rep. of the accused) would be needed to drop a case after preliminary investigations; whereas previously, that of the former two was suffi-

The time is ripe for an indepth study of these by-laws and the possible incorporation of extant BOC procedures into them. Amendments to these reopening of this case does not by-laws can then be made as hold water. Article VII, Sec. and when the circumstances deem it necessary and with the ("No decision of a previous prior approval of the Board shall be revoked unless undergraduate community. suggestions motivated not by a lack of ditions change the status of the trust in the BOC, but rather by original case or upon recom- the thought that members of mendation of the Deans.") can- the BOC need to be guided by more than their instincts in the the decision to drop the case laissez-faire they now possess. was made not by the Board Good intentions alone will not three-fourths majority of a provements to the BOC byquorum of the Board, accor- laws are facilitated when one ding to Art. VII, Sec. 3(a)) but has a clearer understanding of

what one is trying to change. Another advantage of this effort is that undergraduates will be more cognizant of the judicial processes that govern their lives here at Caltech. As Kafka wrote, Law. . . should be accessible to every man and at all times."

-Lawrence Anthony

### A Defense

To the Editor:

In Mr. Tiemann's letter (11/30) there is one major error which should be corrected. He implied that Eliza Sutton (former BOC Chairman) did nothing about the case that he reported to her. In fact she and the BOC Secretary conducted an investigation and then the case was dropped. After I became the BOC Chairman, Mr. Tiemann reported the same case. Since Mr. Tiemann reported no new evidence. I did not feel justified in repoening the case. The ASCIT by-laws actually prohibit such an action. Article VII Section 3(f) states "No decision of a previous Board shall be revoked unless the Board is convinced that new evidence or changed conditions change the status of the original case or upon recommendation of the -Fred A. Ferrante Deans." BOC Chairman

#### THE CALIFORNIA TECH

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#### of the current procedures of the BOC are the result of spontaneous generation, with the undergraduate student body at large neither consulted on nor informed of subtle but

## The Caltech Y Fly-by

Friday...December 7

Michael Jackson: The Y has (had?) tickets for the Jacksons' concert tonight. Transportation leaves at 5 p.m.; there may still be some left.

Sign up for Philharmonic trips today (why wait?)

Sign up for the Ski Trip: see below.

L.A. Actors Theater: The Y has tickets for the matinees on December 8 and 15; sign up today.

Saturday...December 8 and

Sunday...December 9

DECOMPRESSION: Winnett Lounge, 8 p.m. to midnight. Food, fun, films, etc. Special thanks to the Caltech Service League.

Wednesday...December 12

Philharmonic trip: The program consists of works by Tchaikovsky, Stravinsky, and Beethoven.

Sunday...December 16 through

Saturday...December 22

Ski Trip: Sign up early! \$90 includes housing, food, and transportation (but not lift tickets) for five days of skiing.

Friday...December 21

Philharmonic trip: An all-Mahler concert.

Watch for a Stranded Students Holiday Party banner. For more information, contact the Caltech Y at 356-6163, or just drop by.

# 

# Column Is Scoreless

To the Editor:

When the article "Score with Santosh" first came out, we thought it was a pretty good idea-a handicapper for each week's NFL games that would be fun to read. However, as the column goes on, it becomes clear that the author has absolutely no concept of intelligent sportswriting. It seems that Krishnan has some sort of personal prejudice towards the Seattle Seahawks and any other team that would challenge the L.A. Raiders for the AFC Championship. His comments show a poor understanding of the NFL. He accuses Seattle and Miami of poor sportsmanship when in actuality they are two of the finest-coached teams in the entire league. In last week's column, Krishnan writes of Seattle "This roughhewn and dishonest team, as well as their fans, should be exterminated." It appears that Krishnan is using his column as some sort of vehicle to express his biases in a very unprofessional and petty manner.

A good handicapping column is a pleasure to read, and even a poor column is at least entertaining, but this column just shows the author's unfounded and incorrect prejudices. His record is only a poor 40-43, which shows that his picks are mediocre at best. (Isn't it funny that he manages an 11-3 record on the week that he doesn't publish his picks?)

The column was a good idea but unfortunately the author lacks the professionalism to handicap professional football (or probably any sport for that matter). It's getting a little tiring reading this trash each week.

-Chris Mihos. Mark Lewis, Jim Helgren, Brian Tsai, [23 others]

asked them if they thought it back. They said, "Sure! We'll set it up and call you back tomorrow."

greatest luck in making a decision. God must have set it up to help me decide. I was walking to my office, and a guy came running up to me and said, "Hey Feynman! Did you hear what happened? Baade found that there are two different populations of stars! All the measurements we had been making of the distances to the galaxies had been based on Cephid variables of one type, but there's another type, so the universe is twice, or three, or even four times as old as we thought!"

I knew the problem. In those days, the earth appeared to be older than the universe. The earth was four and a half billion, and the universe was only a couple, or three billion years old. It was a great puzzle. And this discovery resolved all that: The universe was now demonstrably older than was previously thought. And I got this information right away-the guy came running up to me to tell me this.

I didn't even make it across the campus to get to my office, when another guy came up-Matt Meselson, a biologist who had minored in physics. (I had been on his committee for his Ph.D.) He had built the first of what they call a density gradient centrifuge-it could measure the density of molecules. He said, "Look at the results of the experiment I've been doing!"

He had proved that when a bacterium makes a new one, there's a whole molecule, intact, which is passed from one what about your mother. And "Oh, no!" I said "I've already bacterium to another -amolecule we now know as DNA. You see, we always up. It's much easier to just room, and if she hears how think of everything dividing, plain decide. Never much the salary is, we'll get individing.

So I called up Cornell, and divides and gives half of it to the new bacterium. But that's was possible for me to come impossible: Somewhere, the smallest molecule that contains genetic information can't divide in half; it has to make a copy The next day, I had the of itself, and send one copy to the new bacterium, and keep one copy for the old one.

> ... That was tremendously exciting, and very important—it was a fundamental discovery. And I realized, as I finally got to my office, that this was where I've got to be. Where people from all dif-ferent fields would tell me stuff, and it was all exciting. it was exactly what I wanted,

everything in the bacterium change your mind. I did that once when I was a student at MIT. I got sick and tired of having to decide what kind of dessert I was going to have at the restaurant, so I decided it would always be chocolate ice cream, and never worried about it again - I had the solution to that problem. Anyway, I decided it would always be Caltech.

One time someone tried to change my mind about Caltech. Fermi had just died a short time before, and the faculty at Chicago were looking for someone to take his place. Two people from Chicago came out and asked to visit me at my home-I didn't

decided not to decide any more; I'm staying at Caltech for good." So I didn't let them tell me the salary they were of-

About a month later I was at a meeting, and Leona Marshall came over and said, "It's funny you didn't accept our offer at Chicago. We were so disappointed, and we couldn't understand how you could turn down such a terrific offer."

"It was easy," I said, "because I never let them tell me what the offer was."

A week later I got a letter from her. I opened it, and the first sentence said, "The salary they were offering was ---, a tremendous amount of money, three or four times what I was making. Staggering! Her letter concontinued on page 4



Feynman With Leighton, the co-author

little later, and said they were began telling me all the good setting everything up, and it reasons why I ought to go to was nearly ready, I said, "I'm Chicago: I could do this, I sorry, I've changed my mind could do that, they had great again." But I decided then people there, I had the oppor-never to decide again. tunity to do all kinds of Nothing—absolutely nothing—

have all these things to worry Finally, they asked me if I about-should you go there, wanted to know the salary. you worry, and try to decide, decided to stay at Caltech. My but then something else comes wife Mary Lou is in the other So we think mind-nothing is going to to an argument. Besides, I've

So when Cornell called a know what it was about. They wonderful things. I didn't ask would ever change my mind them how much they would pay, and they kept hinting that When you're young, you they would tell me if I asked.

# Feynman **Delights**

from page 1

events could have happened to just one person, but when Feynman tells it to you (in the full glory of his New York accent written out at times), nothing is unreasonable. Within just a few chapters, one learns and begins to expect adventures, ideas and reactions which are out of the ordinary from this technicolor personali-

This book would be particularly appealing to Caltech students. For us, who strive for the level of excellence in science research associated with the characters in this book, Prof. Feynman has always been a bit of a legend. As I read this book, the legend gradually became a real person. His character is down to earth and his advices and hopes are human. "S. Y.J.M.F.!" is definitely enjoyable and worthwhile to read, but wait until after the term is over.

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# BURGER CONTINENTAL

### TO ALL CALTECH STUDENTS AND FACULTY:



Have your BREAKFAST with us 6:30-11:00. Ham, bacon, or sausage, 3 eggs, country potatoes, and zuchini bread for only \$1.99 with Caltech ID, Monday thru Friday.

> SPECIALTIES: SHISH-KABOB, SHAORMA, SOUVLAKI-STEAK HOMEMADE PASTRIES: BAKLAVA, BURMA, AND NAPOLEONS

good food at reasonable prices refills on soft drinks at all times seconds on salad bar

# For the Entire Month of December

A free root beer float to all Freshmen, and Sophomores

Faculty, Grad Students, Attend! Mondays and Tuesdays are Beer Days. Half price on beer.

On Lake Avenue 1/2 Block North of California

# The Inside World

And now for something completely different Blacker:

Ah, the sweet, bitter end approacheth. The Big Black Machine has earned a well deserved Holiday Vacation. Yes, the coffee generation is upon us and the death squads still run rampant in Cannes, Pub, Upper P, Vatican, and sometimes Tunnel. Meanwhile, somewhere not far from Braun, darkness and sudden violence become the catch phrases in someone's cold, heartless game of sabotage. To the victor belong the bulbs.

On a related note, has anyone heard from Naomi lately? I think the last chance for ransom is the 18th.

Know a bad joke? Mail it to: President 1 - 60.

Know a worse joke? Mail it to: Head Waiter

1 - 60.

Looks like that wraps it up. Don't forget about bowling with the Flems on the morning of the 25th. Be there early. Way to go social team (yeah, even you

> Accroches-toi a ton rêve. Accroches-toi a ton rêve. Quand tu vois ton bateau partir. Quand tu sents - - ton coeur se briser, Accroches-toi a ton rêve.

(translation):

Girls on film, Girls on film.

- Rhode scholar...

Page: Congratulations to the freshman class of Page House. Their superior numbers enabled them to win the Second Annual Beer Drink-Off. Coming in second place were the juniors, who, despite lack of athletes put up a strong effort. The sophomores came in last.

Just when you thought that headache would go away, here comes beerball! This Saturday at 2:00 p.m., we'll be matching mugs and mitts with Physical Plant. We'll be having a barbecue also. So bring your glove, mug, and appetite and prepare to have some fun.

Finally, congratulations to the many fine swimmers.

-Cyndi LePage

Sponsored

I WONDER HOW IT'S GOING IN THERE.. [1]

WHERE'S BILL THE CAT?

# Treat That Acne

by Miki Goodwin

Acne news: If you are acne prone it is a good idea to use a clean wash cloth every time you wash your face. (A warm, damp cloth provides a perfect medium for bacteria to thrive on.) A not-so-expensive idea would be to cut up an old towel and use a fresh piece daily. Alternatively some disposable cleaning sponges may be easier and are available at most pharmacies.

Health and Fitness: Regular exercise can make you feel less tired even after an exhausting day of work or study.

Moreover, it is the lack of exercise and not the passage of time that hurries the aging process, according to the American Medical Association. Regular exercise can help in prevention of several medical conditions including obesity, depression, coronary artery disease, hypertension and osteoporosis. Neurostimulants in the brain can be triggered by exercise and help memory, mind wandering and even ease mood swings. If you have not already, you may think about an exercise routine. It may make a big difference to your

## Women's Issue Dilemma

from page 2

panies, most notably AT&T Bell Labs, have special hiring programs available only for women, such as an OYOC (One Year On Campus) where Bell pays salary and tuition for an employee to go to school full-time. That program is open only to women and if I were a man, I'd sue Bell for reverse discrimination. (Bell was sued for discrimination 4 years ago). Affirmative action programs now guarantee that a certain number of openings will be held for women and minorities before they even reviewed the prospective applicants for qualifications. A few engineering graduate schools have even offered to waive my application fee in recognition of the fact that my kind HAD been discriminated against some time ago.

The point is, no opportunities should ever be barred for any sex or racial reasons, but by the same token, no opportunities should be created for those reasons either. Faculty positions are still rare because some men in power still have problems with the concept of intelligent and capable women, but that is becoming more of a social attitude problem rather than a system problem. The system with its laws and rules are easy

to change, the attitudes are not. With ingrained social issues like this one, it is often the case that you simply have to wait for the younger and more liberal-minded generations to grow up and for the older generations to leave. That takes time and is a long, slow process, but it is happen-

To try and force that evolution of attitudes might even be detrimental; and so much has gained already. been Therefore, with no stand to take or side to hark, I am content to simply be patient and wait for the changing of the guard.

### copies of "SURELY YOU'RE Please send me JOKING, MR. FEYNMAN" at \$16.95 per copy, post paid. I enclose \_\_\_\_\_ check \_ money order for \$\_ (New York and California residents please add sales tax.) Name \_ Address \_ City, State, Zip.

# An Offer To Refuse

from page 3

tinued, "I told you the salary before you could read any further. Maybe now you want to reconsider, because they've told me the position is still open. and we'd very much like to have you."

So I wrote them back a letter that said, "After reading the salary, I've decided that I must refuse. The reason I have to refuse a salary like that is I would be able to do what I've always wanted to do-get a wonderful mistress, put her up

in an apartment, buy her nice things....With the salary you have offered, I could actually do that, and I know what would happen to me. I'd worry about her, what she's doing; I'd get into arguments when I come home, and so on. All this bother would make me uncomfortable and unhappy. I wouldn't be able to do physics well, and it would be a big mess! What I've always wanted to do would be bad for me, so I've decided that I can't accept your offer."

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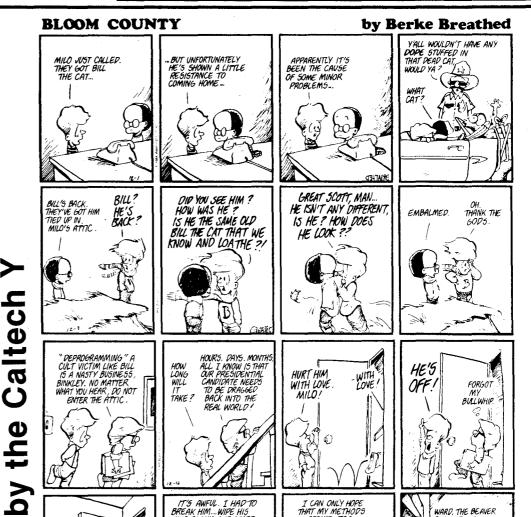
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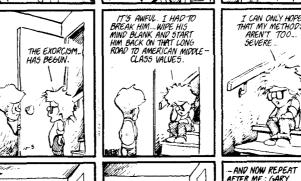
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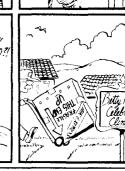








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## entertainment =

# Adolf Is A Hit

The Portage to San Cristobal of A.H.**Odyssey Theatre** 

What would happen if

Hitler had survived the bunker and was found alive today? The answer as presented in *The* Portage to San Cristobal of A.H. is a riveting nightmare.

Christopher Hampton's adaptation of George Steiner's book of the same title, the second in a three play series entitled "Nazi Mind" at the Odyssey Theatre, is an episodic journey through the Brazilian jungle with the aged Fuhrer and a secret unit of crack Israeli commandos who are physically as well as sartorially fatigued (it has taken them 30 years to find him).

From time to time comfortable ruling-class Europeans discuss the likelihood that Hitler is still alive, and what their government is likely to do about it if he is. These discussions take place variously during a croquet match, an interrogation, and while getting dressed after a romp in bed with a mistress—a Russian spy no doubt. Less comfortable South Americans argue about how best to exploit the situation, and news reporters manipulate and manufacture the story. These glimpses of "civilization" are scattered bet-

be appropriate punishment for A.H. after so many years is especially amusing. This back and forth transition between scenes is perhaps better suited to books and film than to a play. The director has attempted to minimize the disruption caused by these abrupt changes by leaving the soldiers asleep.

The stage set by John Stone is sparse and mostly black. The lighting (Dawn Hollingsworth) is misty and vague. Not only the soldiers, but other characters too spend a great deal of time on stage asleep, sometimes in delirium. Half the cast play multiple parts; a few actors say almost nothing for much of the play, but move slowly, ritualistically, or in other ways that contribute to the dreaminess of the production. Nevertheless, ignoring its somnambulism, this is a play of ideas. It is well researched, interesting and audacious. At the end Hitler, played with haunting felicity by Philip Baker Hall, speaks for himself. The dottering old man finds words, and something of the compelling presenct that made him one of the most charismatic rulers of all time.

Steiner, the author, is an intellectual and a Jew. Born in Paris of Austrian parents in 1929, he is obsessed with the Holocaust – an historical event to which he was so close, and yet in which he took no direct part. The concluding diatribe he has written for Hitler is eloquent and attempts to be objective, but many excuses do not build a convincing defense. Thanks to an insistent and powerful presentation of that speech, we begin to understand the phenomenon that was



#### Movie Review

by John Fourkas Comfort and Joy Directed by Bill Forsyth Beverly Cineplex; Monica, Santa Monica

It's the holiday season in Glasgow. Alan "Dicky" Bird, a well-known disc jockey, has just bought a cone from a Mr. Bunny ice cream van. As he walks away from the truck, two hooded men jump out of a car and proceed to bash in the windows of the ice cream van. The vendors attempt to fend off their assailants by squirting raspberry sauce at them. As the vandals are about to escape, one of them recognizes "Dicky" and stops long enough to ask for an autograph.

If all of this seems a bit bizarre, well-it is. It comes from Comfort and Joy, the latest offering of Scottish writer/director Bill Forsyth, the man who brought us the wonderful films Gregory's Girl, Local Hero, and That Sinking Feeling. Perhaps the most

noticeable feature of Forsyth's previous ventures is his delightfully dry and subtle sense of humor, and in this respect Comfort and Joy is no exception. The film chronicles a few days in the unlucky Bird's holiday season. Bird's kleptomaniac girlfriend leaves him without warning ("The time just didn't seem right to tell you") and takes with her most of the furnishings of his apartment. After the ice cream truck attack, Alan asks his boss if he can do a serious documentary, for which he is finally sent to a psychiatrist. Meanwhile, Alan has gotten stuck in the middle of an ice cream war between Mr. Mc-Cool and Mr. Bunny (formerly Mr. Softy-"But not any more!").

I often find that a Bill Forsyth film is funnier upon reflection than while it is actually running, probably because all of his movies really do concern serious subjects (generally depression in Scotland). This is perhaps the only fault of Comfort and Joy.

Forsyth's previous films have not been entirely concerned with adults, which allowed the viewer to take everything a little bit less seriously (as a "coming of age" type of problem rather than anything "truly" important). In Comfort and Joy we are faced with senseless violence between adults, and we really cannot ignore this violence while we are taking in the subtle ironies of the film. It is only afterwards that we fully appreciate the ice cream truck which rolls along playing a little xylophone melody with a high-pitched voice periodically saying "Hello folks!" Indeed, this is probably as Forsyth intends. Alan Bird does not realize the humor of his situation until the end of the movie. as we often do not realize the humor in our own crises until much later. With this thought in mind, Comfort and Joy is well worth watching.

Comfort and Joy is showing at the Beverly Cineplex in the Beverly Center (213-652-7760) and at the Monica in Santa Monica (213-394-9741).

# By-Laws Changes Proposed

The ASCIT EXCOMM and Board of Directors have approved the following three proposed ASCIT Bylaws amendments, which will be put to student vote on Monday, January 14 1985.

Amendment 1. Prohibition of campaigning in the polling place. This amendment is meant to make elections more fair by prohibiting any form of vote coercion during the actual voting process through segregating the polling place from the campaign.

Amendment 2. Staggering of

ASCIT officer selections. This amendment provides for two separate elections for ASCIT officers, the first for the President and Treasurer and the latfor all other officials.

Under the current system, after am the second Wednesday of second elections, the new BOD is installed and the old BOD retires without ever interacting with their successors. By electing the President and Treasurer early, they will have a month-long opportunity to work with and learn from their experienced couterparts. It is felt that this will provide ASCIT with muchneeded continuity for ongoing or long-term BOD projects, and smoother administrative transitions.

#### **Proposed Changes**

Amendment 1: Article VIII, Section 3. (addition) There shall be no campaigning or campaign materials present in a room where polling takes place during any election.

Amendment 2: Article VII, Section 1. Nominations for the offices of President and Treasurer shall open at 8:00 term, and shall close at 5:00 pm the following Tuesday.

Nominations for all other elected officers shall open at 8:00 am on the fouth Wednesday of second term, and shall close at 5:00 pm the following Tuesday.

For a nomination to be valid, the nominee must be a current ASCIT member. All nominations must be given in writing to the secretary and must be signed by the nominee. Prior to the election The California Tech shall publish a complete list of nominated candidates and any statements they wish to make.

Section 2. All nominated candidates shall be listed on a ballot and voted upon at elections to occur the Monday immediately following the closing of nominations for that office. A final election, if necessary, shall occur on Friday of the same week.

Section 10. (replace first sentence.) All officers shall be installed at the second Board of Directors meeting following the election of the non-Treasurer/President officers.



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# **Buckaroo Reviews**

A Weekly Column by Matt Rowe

# **Don't Toss This Away**

Lone Justice The Palomino December 1st and 8th

Lone Justice is a Los Angeles band that has been playing shows at clubs from the Palace to the Palomino for the past three years or so. About a year ago, a nice man from Geffen Records had them sign a piece of paper and sent them to New York to make a record, so they haven't been playing much in the area recently. With the album almost ready for release, however, the band is getting ready to tour, and they need to get up to speed. Which is why they played two shows at the Palomino last Saturday, and why they're playing two more tomorrow.

If you're familiar with the Palomino's style of music, then you've probably guessed Lone Justice's style of music. If they must be classified, Lone Justice is a country band-but that's like calling Caltech "just a school in Pasadena." How many country bands would play Talking Heads' "Heaven" and Jimi Hendrix's "Foxy Lady" for an encore? To the best of my knowledge, the answer is one. Lone Justice's brand of country encompasses Motown, gospel, Lou-Reed-style rock 'n' roll, psychedelic music, and even the new-wave eclecticism of Talking Heads.

Leading Lone Justice on its musical adventures is singer and songwriter Maria McKee. The show begins with a slow, sparse rendition of the Velvet Underground's "Beginning to See the Light," and it is immediately obvious that McKee has been endowed with a truly phenomenal voice. With just the right amount of country twang to make it authentic but still bearable, she leads her band through Motown-styled pop ("Wait Till We Get Home"), country blues ("Don't Toss Us Away"), and more conventional rock ("East of Eden"). Her voice is authoritative, but convincingly passionate; two songs in particular are enough to make you

Now, of course, the rest of Lone Justice is top quality, too. Tom Petty's keyboardist, Benmont Tench, joins them on stage and on the album, though he is not an "official" member; the lead guitarist (Maria McKee plays rhythm), the bassist, and the drummer-I don't know their names - are all first-class musicians. The sound that emerges is far higher in quality than one might expect from a "new" band, even one that has recorded its first album. Other musicians agree: Ron Wood (of the Rolling Stones) and Bob Dylan have stopped in to help in the studio. Lone Justice is a band of professionals, and a Lone Justice concert is well worth the time and money spent, even during finals.

The Palomino is at 6907 Lankershim in North Hollywood, phone (818) 764-9010. Lone Justice will be playing at 8 and 11 pm Saturday; tickets are \$8 at the door or \$10 at all Ticketmaster locations (May Co. and Music Plus). The Palomino has no age limit. See you there.

### **Movie Review**

# Starman Lights Up Screen

by George Karas

Starman Directed by John Carpenter Opens December 14th

Last Saturday night, theaters throughout the Southland showed a special preview of John Carpenter's Starman, scheduled for release next Friday.

The film, which is basically a sci-fi love story, opens as Voyager II is intercepted by an alien ship. The Voyager series, as most probably know, contained gold records of "The Sounds of Earth," an open invitation for anyone in the neighborhood to come and visit. That is exactly what the

Starman does. After being shot reminiscent of E.T. down by the Air Force, he finds the house of a young woman named Jenny and takes the form of her recently-killed husband (Jeff Bridges).

What follows is a crosscountry race to reach the aliens' rendezvous point (appropriately enough, Crater National Monument), before the evil government forces can find and dissect him. In addition, we have the radical young SETI (Search for Extra-Terrestrial Intelligence) agent, trying to stop the government. All in all, the plot is rather predictable and vaguely

But for all its predictability, the film is pleasantly entertaining. Jeff Bridges' portrayal of the Starman is wonderful, as he tries to learn the intricacies of human life and love. There are also some very touching scenes, as Jenny learns to deal with the fact that the Starman is not, in fact, her husband. She must also deal with her growing love for him.

The film is funny and tender, without being overly pedantic. If you don't feel like waiting in line for 4 hours to see Dune next Friday, go see Starman instead.

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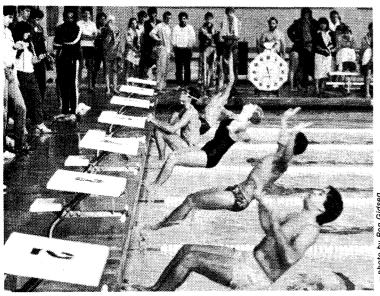
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### **Early Start In V-Ball Tourney**

by Busy Sue

Where were you Sunday morning at 7:45 am? I'll bet you were asleep. If you were, you missed the first terminal (that means that there's one per term) triples volleyball tournament. Some people think that volleyball at 8:00 in the morning is crazy. If you think that, you're wrong.

This triples tournament was organized and run by Chad Edwards. He overslept, but once he showed up, he did a great job. He set up teams on Sunday morning, and managed to make them pretty even, although he didn't know a lot of the people there.

Thirty-six people showed up to play. Seven other people showed up intending to play, but they fell asleep. They were ugly anyway. First, we played a kind of weird Round Robin to determine which teams would go to playoffs. Then the top four teams faced off for that over-tough competition.

J. Friedson, Elias Krisias, and Bob Morton were the first place team. Sorry if I did or do mess up how you names are spelled: I have this little piece of compuscratch with unreadable engineering handwriting on it. D. Sams, Kevin Maher, and Dan Rudy were the second place team. L. Lippard, Andy Matsuda, and J. Tanner were third. And Chris Lindstrom, Rod Morrison, and B. Wong were fourth. I was told in advance that the prizes would be beach chairs, but no, Chad claimed that beach chairs were unavailable in the winter. Instead, the first place team got dinner at BC and Haagen-Daz, and the second place team got just ice cream. The team with the worst standing got a warm six-pack of Hamm's beer. They were too embarrassed to take it, even though everyone insisted. I think Jeff Stern finally ended up with it, because he's the only person in the whole world who likes that stuff. (Gee Chad, what an inspired idea!)

Anyway, everyone had a pretty exhausting but fun time. Next term, if you're not doing anything on Volleyball Sunday, check it out. Doesn't everyone need another beach chair?

# **TELEPHONES**

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### **Score With Santosh**

by Santosh Krishnan Last week's record: W-L: 8-6against spread: 8-6

cumulative: W-L: 60-36against spread 48-49

AFC L.A. Raiders (10-4) at Detroit (4-9-1) [Monday Night]

The Raiders rolled over Miami despite several bad calls against them. The personal foul call against Lester Hayes was one of the worst of this year, equalling the fumble called on Denver that gave Seattle a most undeserved win. Don Shula's presence on the Rules Committee no doubt influenced these calls. Against Detroit, the Raiders will not have to put up with this nonsense, and their brilliant offense coupled with an unrelenting defense will return with a win.

Prediction: Raiders by 6. Seattle (12-2) at Kansas City

Kansas City upset Denver in a close game last week. Seattle squeaked by Detroit in classic Seattle fashion (cf. last week's column). At K. C., Seattle will not have their "fans".

Prediction: K. C. by 2, [upset of the weekl.

Miami (12-2) at Indianapolis (4-10)

Miami's ineptness and poor coaching were evident in several instances in last week's game. For example: Fullton Walker lateraled a punt reception back into the field of play as he was being pushed out of bounds. Clayton, wide receiver, fumbled en route to an apparent touchdown. Finally, Miami special team was unable to cover a brilliant Raider on-side kick. Against Indy, these faults will not matter and Miami will win.

Prediction: Miami by 12 San Diego (7-7) at Denver (11-3)

Prediction: Denver by 6 Cleveland (4-10) at Pittsburgh

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Prediction: Pittsburgh by 2

Buffalo (2-12) at NY Jets (6-8) [Saturday] Prediction: Jets by 5

NFC NY Giants (9-5) at St. Louis (8-6)

One of two key NFC games this week. The Giants have won three in a row, and St. Louis has come out of a long slump. Should be a good game to watch.

Prediction: Giants by 2 Washington (9-5) at Dallas

Dallas is mediocre, and the Skins are hurting. This is the second key NFC East game this week. The home crowd might make the difference.

Prediction: Dallas by 2 Minnesota (2-12) at San Francisco (13-1) [Saturday] Prediction: San Francisco by 9 Green Bay (6-8) at Chicago (9-5)

Chicago was disappointing last week, and Green Bay is a team better than its record indicates. At home, however, the Bears will not drop their second in a row.

Prediction: Chicago by 3 Atlanta (3-11) at Tampa Bay (4-10)

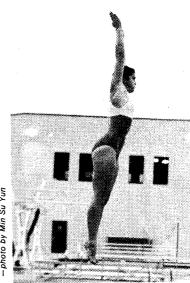
Prediction: Tampa Bay by 6 Interconference

Houston (3-1) at L. A. Rams (9-5)

Against Houston, the Rams will have one more chance to secure a play-off berth. While the game will be dull, Dickerson may break O. J. Simpson's single-season rushing record. Prediction: Rams by 6

Cincinnati (6-8) at New Orleans (6-8)

Cincinnati still has a chance to win the hapless AFC central division. A game to avoid. Prediction: Cincinnati by 4 New England (8-6) Philadelphia (5-8-1)Prediction: Patriots by 6



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If you would like to place an ad in the classified section of the California Tech please send your ad along with your name, address, and telephone number to: The Tech, 107-51 Caltech, Pasadena CA 91125. Ads must be received by Tuesday before desired publication. Ads cost \$.40/line with a \$2.00 min. and prepayment <u>iş</u> required.

#### Loneliness

"Dealing With Loneliness" will be the topic of the next O.W.C. noontime. Dr. Anne Panofsky, a clinical psychologist and musician, will examine and discuss the experience of aloneness both within a creative context and then with practical suggestions for dealing with loneliness. All members of the Caltech community are invited to attend the brown-bagger on Monday, December 10th, 12 noon in Winnett Lounge. For more information, contact Manya Jiannino, x6364.

#### **Christmas Potluck**

Are you doing anything for Christmas eve? If not, and you're interested in a potluck dinner, see you at the organizational meeting on Monday the 17th in the Ricketts R.A. suite at 7 pm, or if you can't make it that day, phone to Michèle: x6479. Everyone is welcome.

#### **Domestic Violence**

The group against domestic violence is having its last meeting of the year this Saturday. All members and interested persons are invited. For more Hollander, x6180.

#### information, contact Jay

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#### Attn: UG Women

There will be an Undergrad Women's Group meeting on Friday, Dec. 7 at noon in the Y Lounge. The meeting will be for lunch, conversation, support, and female company, with probable discussion topics: exams, pressure relaxation, and relationships. All women are welcome, and bring a female friend if you wish. Questions should be referred to Felice B. at x6171.

#### Amnesty Int'l

The Pasadena chapter of Amnesty International, the world-wide human rights organization, meets on Dec. 12 at 8:00 pm in the Y Lounge, Winnet. New members welcome. For information call Jean-Francois Haas, x4481, 798-8538.

#### It's TQFR Time

Now that finals are coming up soon, it is TQFR time. Here's your chance to praise and/or criticize the courses which you are taking. You should have received TQFR Course Evaluation Forms in the mail by now. Please fill these out, before you forget, and send them in. Additional comments about courses are appreciated; please use the back of the forms.

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#### Santa Rudd?

Undergrads, Grads, Facul ty, and Family are all invited to a Christmas/Hanukkah/Winter Solstice/Saturnalia [sic] party TONIGHT, December 7th, in the Ruddock House Lounge, from 8:00 to 11:00 pm. Santa will be there (bring a camera), and there will be eggnog, singing, and knick-knacks for the kids. Have you been nice this vear?

#### YMCA Basketball

The Foothill Family YM-CA, 2750 New York Dr., Pasadena is preparing for it's "Y-Winner's" Youth Basketball league. Children in grades one through nine are invited to join. Clinics will be held Dec. 15 and Jan. 5, with league play set for Jan. 19 through Mar. 16. All clinics and games will be at the YMCA gym. For more information, call (818)-798-0862.

#### **New Class**

There will be a new Literature class taught second term, 1985. It will be Lit 180 Special Topics in Literature: Howthorne and James. Taught by Ron Bush it will be an indepth ciritcal reading of these two authors. It will be available for advanced humanities credit. There will be an Organizational Meeting Wednesday, January 9 at 2:30.

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