

Happy
Murphyday,

THE CALIFORNIA TECH

Uncle
Linus!

VOLUME LXXXVII NUMBER 19

PASADENA, CALIFORNIA

FRIDAY 28 FEBRUARY 1986

Student-Faculty Conference

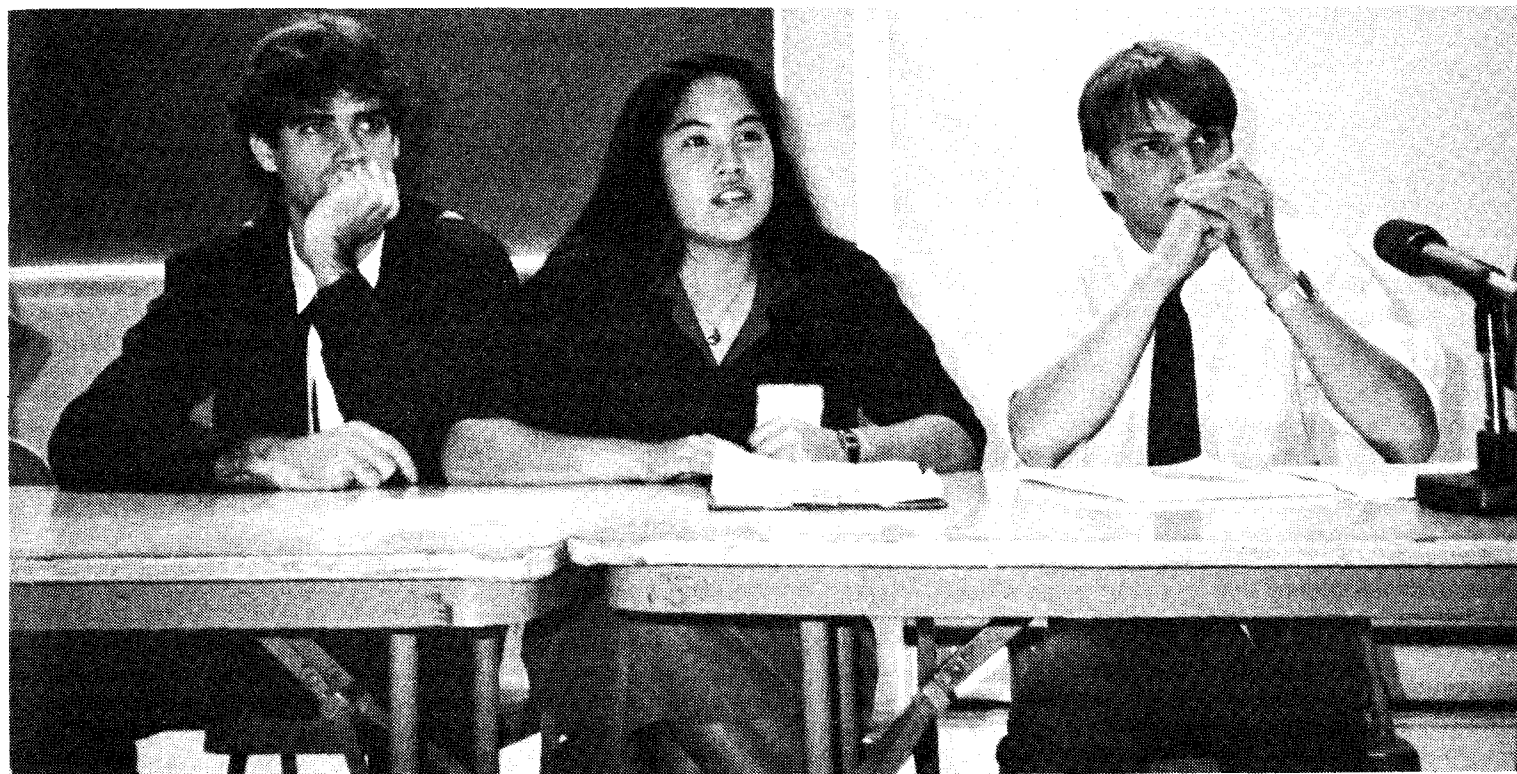


Photo by Rosemary Macceda

WHAT ARE THESE PEOPLE LOOKING AT? STUDENTS! FACULTY! THE STUDENT-FACULTY CONFERENCE! READ ALL ABOUT IT...

by Diana Foss

The major theme that emerged from Saturday's Student-Faculty Conference was the need for greater communication and interaction between different segments of the Caltech community. This is ironical; Provost Rochus Vogt called the SFC one of the only forms of real contact that the administration has with students, and yet there were only about 75-100 people in attendance. This despite free Foster's doughnuts and a free lunch.

Each of the six committees presented several concrete proposals, some, of course, more *outré* than others. Co-organizer Lisa Henderson made a point of stressing at the outset that the main goal of this Conference should be getting proposals implemented. To this end, a great deal of work must be done now, after the conference. Every student who cares at all about any of the proposals made Saturday must fight the usual Caltech urge to sit back and let others do the work, even if the extent of her action is limited to writing Provost Vogt a letter saying, yes, I do want a new campus center. Caltech students, by virtue

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Women's History

by Diana Foss

The Organization for Women at Caltech is sponsoring a week of celebration in honor of Women's History Week, next Monday through Friday, 8 March, International Women's Day, traditionally marks the day the women garment and textile workers in New York were said to have staged a protest against their low wages and long hours; women were arrested and trampled amid the confusion of the police dispersal.

In reality, this protest is a myth. Socialists, not feminists, first observed a National Women's Day in the United States on 23 February 1909. On 18 March 1911, European women joined together to call for universal suffrage, making the observation international. For eleven years, it was celebrated in either February or March, revolving around social issues of the time. Not until the late 1960's and early 1970's did feminist as well as socialist groups in the U.S. begin celebrating International Women's Day to honor women's roles in society and to renew dedication to international freedom.

National Women's History Week, which precedes International Women's Day, extends that

spirit of celebration to encompass the often overlooked contribution to society of women, past and present. This year's theme, "Women: Builders of Communities and Dreams," is being observed across the country from 2 to 8 March. The celebrations planned by the OWC include:

Monday: *With Babies and Banners*, a film about women union organizers.

Tuesday: Barbara Phillips Turner, a member of the Pasadena Commission on the Status of Women, will talk about the Commission's work.

Wednesday: Dr. Vera Pless, Visiting Professor of Mathematics, will speak on what it's like to be a woman in a scientific field.

Thursday: Dr. Judith Raftery, Nanette LeCoat, and Mary Burg, Professors in the Humanities, will give a presentation on important historical women encountered in their research.

Friday: The Caltech Y presents a noon concert with feminist folksinger Phranc, on the quad.

All events are at noon, all except Friday's are in Winnett Lounge. Of course, all members of the Caltech community are welcome.

Caltech Salutes Linus Pauling

[CNB] The Caltech Division of Chemistry and Chemical Engineering will sponsor a salute to chemist Linus Pauling, twice winner of the Nobel Prize, on the occasion of his 85th birthday. The program honoring Dr. Pauling will take place today beginning at 9:00 a.m. in Beckman Auditorium on campus. The program is free and open to the public.

The salute will feature some of the nation's most prominent chemists discussing their work and how it was influenced by Dr. Pauling's discoveries. Other speakers will discuss Pauling's career at Caltech. Among those delivering remarks at the salute will be Dr. Fred C. Anson, professor of chemistry and chairman of the Division of Chemistry and Chemical Engineering; Dr. Ahmed H. Zewail, professor of chemistry and organizer of the salute; and Caltech President Marvin Goldberger.

Chairman of the program's morning session will be Nobel Laureate Francis Crick of the Salk Institute. Speakers and their topics

will include:

- Norman Davidson, the Norman Chandler Professor of Chemical Biology at Caltech, "Linus Pauling at Caltech, 1946-1964."
- Alex Rich, M.I.T., "Chemistry and Biology of Left-Handed DNA."

Chairman of the afternoon session will be William A. Goddard III, who is the Charles and Mary Frekel Professor of Chemistry and Applied Physics at Caltech. Speakers and topics will be:

- William N. Lipscomb and David W. Christianson, Harvard University, "Ligand Binding and Mechanistic Implications in Carboxypeptidase A."
- Henry Taube, Nobel Laureate, Stanford University, "Mixed Valence Molecules."
- Edward Hughes, Caltech senior research associate emeritus in chemistry, "Life with Linus."

The afternoon session will con-

clude with remarks by Dr. Pauling. That evening, a dinner honoring Dr. Pauling will be held in the Athenaeum. Presiding will be Fred Anson, chairman of the Division of Chemistry and Chemical Engineering. Featured speakers will include Rochus E. Vogt, vice president and provost; and Edward Hutchings Jr., former editor of Caltech's *Engineering and Science* magazine, who will discuss "The Pauling Era at Caltech."

Dr. Pauling was born in Portland, Oregon, on February 28, 1901. After receiving his elementary, high school, and college education in Oregon, he came to Caltech, where he obtained his Ph.D. in 1925. With the help of a Guggenheim Fellowship, he studied quantum mechanics in Europe for a year and a half. He then returned to Caltech as a faculty member and chairman of the Division of Chemistry and Chemical Engineering. He remained at Caltech for over 35 years.

During the early part of his Caltech career his research centered on problems in structural chemistry, especially on the determination of the structures of molecules through X-ray diffraction and electron diffraction. In 1939, many of his discoveries and insights in this field led to *The Nature of the Chemical Bond*, one of the most influential scientific books of the twentieth century.

In the mid-1930s Pauling became interested in biological molecules. His efforts include magnetic studies in oxygen-carrying hemoglobin molecules and the development of a structural theory of denatured protein molecules. His research projects were interrupted by World War II, during which he worked on explosives and developed an oxygen detector. He also continued his interest in biological molecules through his work on antibodies and on an artificial blood serum.

In the late 1940s, he discovered the alpha helix as the basic structure of proteins and narrowly miss-

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The Plight of Cities

by Wesley Boudville

On Wednesday, March 5, Mayor Henry Cisneros of San Antonio will give an informal talk in the Y Lounge at 10 am. The talk is entitled "The Plight of America's Cities," and it will discuss the problems of economic development faced by cities in this country. Cisneros' approach is to attract high technology companies to San Antonio. He once said that he spends 85 percent of his time in trying to persuade such companies to build plants in his city. He emphasizes economic development, rather than welfare programs, as a better solution to social problems.

In 1981, he was elected mayor of San Antonio, making him the first Hispanic mayor of a large American city. Since then, he has been re-elected twice, garnering

impressive victory margins of 94% and 73% of the votes cast on those occasions. Cisneros has attracted considerable national attention. He was a member of the National Bipartisan Commission on Central America; and in the 1984 Federal elections, he was suggested as a vice-presidential running mate for Mondale. He is considered a rising influence in the Democratic Party. However, he says that he wants to remain mayor until 1990.

Currently, he is also a faculty member at the University of Texas at San Antonio, and at Trinity University. He was a commissioned officer in the U.S. Army and a captain in the U.S. Army Reserves.

The talk is free and open to all. Students are urged to attend.



Editorial

Guest

On Representation and Fairness

by Matt Rowe

This Friday is a campus holiday: Caltech President Marvin Goldberger announced the holiday to Techers last fall by sending a memo to every man, woman, child, office, and organization on campus. In some people's eyes this is a terrible waste of paper; actually, it's only about \$30 worth, and while that money might be saved by simply writing an announcement for the *Tech*, it's safe to ignore it next to far more flagrant abuses of the relatively open supplies of paper around here. Of course, that isn't my topic, but I thought I would speak out, given the chance.

What I have always found far more frustrating about Goldberger's memo is the subtle ways it helps students misinform themselves. This year is a bit different, but generally the President of Caltech announces a holiday for President's Day; it follows that this must be the fabled Murph Day, and, while it's a bit selfish of Murph to proclaim a holiday for himself, we might as well enjoy it all the same.

The truth of the matter is that Presidents' Day commemorates the presidents of the United States—Chiefly Lincoln and Washington, as their birthdays are nearby—and that for God knows how long it has been observed on alternating Mondays and Fridays of the third week in February. For over forty years, too, Ricketts House has held a party called Apache on the Saturday of that weekend. And, for years, the Thursday after Apache—in less than a week—Ricketts has elected a new president.

So, soon each house will have a new president, and ASCIT as a whole has one, too. Reagan and Goldberger are still in office, but "Baby Doc" Duvalier and Marcos aren't; the world still turns. They say love makes the world go round, but that holiday was earlier this month. Given Tech's ratio. St. Valentine's Day is seldom a happy occasion for everybody anyway, so let's skip it and consider the leaders of our various levels of government. Governments are really what makes the world go round, after all.

One of the chief differences between democracy and other

continued on page 3

Everything Sux

Hi María,

Boy, did last weekend SUCK! First, when I unplugged the tub (we use a sock, 'cause we don't have any plugs) the sock got caught in the drain, and when I released it to try to get it uncaught it went down the drain. I was ready when the Roto-Rooter man asked, "How the hell did you guys manage to get a sock down there?" I answered, "Oh, the guy who lives here ain't so sharp sometimes."

Saturday morning (very early) I was awakened by a very intense shaking. Mike sez, "Wake up!" I sez, "I am!" He sez, "I mean I want you coherent." I sez, "OK, I'm awake! What already!" He sez, "Castor cut his head and is bleeding all over the place! I think he needs stitches." "Ahhh shit," I sez.

So I get dressed and go see how Castor is. Yep, that red stuff was blood. Then I have one of my very brilliant ideas. "OK, Mike, let's take Castor to my car and go to... the Health Center." I don't know how many times I've almost beat out all the windows at said place because no one's ever there when it's needed. We ended up taking him to the trainer and she took care of the necessary first aid. Then I woke Dan up and got him to take Castor to the Huntington.

I didn't take him because I had a track meet at Oxy in a few hours. How'd I do? Well, I was going OK until I heard this "Pop" and felt this sharp pain in my leg. I spent the next half hour sitting on an ice bag. But, I need to get back to good ol' Caltech for a Faculty-Student Conference (more at eleven). Do you know how hard it is to drive in LA sitting on a bag of ice?

Then we went and saw "Brazil". A visual experience but it's a tad on the depressing side. Then we went to the Blacker-Lloyd-Ruddock penthouse party. A good party as they go, but I think I've found a new Interhouse sport, throwing high-school students off Spalding roof for distance and accuracy.

Sunday, I get a phone call from Sue. "Hey, aren't you going to play beer-ball? There are about 30 people from Mudd [Harvey] here and around 5 Techers." "Ahhh, shit!" I sez. We won beer-ball (foot-) and they won beer-ball (soft-).

I also did extremely well with the opposite sex. I got two girls from Scripps mad at me Sunday, one girl from Blacker mad at me at the dance, and spent the night

asking one Lloydie (Lloydette?) that I have a crush on to dance. She turned me down all 127 times. I wanted to shoot myself.

Oh, it's eleven, here's more. At the Faculty-Student Conference, many good ideas and topics were discussed and argued about. But, there were problems. I'll start with Faculty since it comes first in Faculty-Student Conference.

There were a number of faculty members at the conference. The President, Provost, Vice-Presidents, Deans, Master, and Deputy Master were all there. There were also many division chairmen and executive officers present. These people were more or less obligated to be there because of their positions, but where were the rest of the regular faculty members? There were a few, but they were the faculty members who are always interested in student affairs and whose efforts are greatly appreciated.

The purpose of the Conference was to get the faculty at large informed as to how students see their world and for students to see how faculty view it. If the conference is really an Administration-Student Conference, then we should call it such. As a member of the Morale subcommittee, one of the most-used complaints in the comments on the surveys was that professors don't seem to care what students think. I believe the point is best made by the coat of arms of Fleming house, which says "Let the Deed Show".

Now for the student part. There were many students there, but they were mostly members of some subcommittee and had to be there. I was late because I was at Oxy pulling my hamstring. The point is: even I was there, so where was

everybody else? I was told that the number of students increased during the lunch break. This seems to be a typical action here. People here love to bitch but when it comes to doing something about it they either don't do anything or steal food. They're just a bunch of goddamned jerks. (I didn't want to offend your sensibilities by using foul language.) You know, the apathy of people around here can be a real pain in the ass sometimes.

Boy, do I feel better.

Love and Kisses,

—Steve Gómez

255 S. Hill

(The house that's finally getting curtains, but has lots of rats)

No Rambos!

To the Caltech community:

The Caltech Rambo Club is recruiting members and financial support, and I'd like to bring this group to your attention. To quote from their budget sheet, their main activities are "playing the survival game nearly every weekend and other training for conventional warfare using simulated combat situations." I talked to some non-participants in this club, and some of them said, "what's wrong with the Rambo Club?" The logic here goes: playing survival is nothing different from playing bridge or soccer; the Rambo Club is just another student group enjoying themselves. Many people, including me, don't feel the same way.

As the name suggests, Rambo Club embodies anachronistic, perverse and destructive imperialist ideas. Individual citizens of the United States might be excused for the mass murder that this country

carried out in Indochina, since they did not have a real control over what was going on. However, the advocacy of the infantile satisfaction of the national ego by simple brutality, as shown in the movie "Rambo", is both ridiculous and immoral.

In addition, the Rambo Club is an insult to Caltech's intellectual status. When did Caltech students join the crowd in macho worship? I don't think we deserve the enormous prestige as a top-notch academic institution if we commit ourselves to the intelligence level of Sylvester Stallone by supporting the Rambo Club.

The Rambo Club, according to their budget, received funds of \$50 and \$100 from the MOSH and the undergrad Dean, respectively. I'd like to urge the administration to reconsider funding of this group. The club is also trying to get \$1000 from ASCIT for next year. It's fine if people want to play expensive and silly war games; however, I'm not willing to let a part of my tuition finance them.

—Hasok Chang

1-59; 578-9414

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The Caltech Y Fly-by

Friday... February 28

L.A. Philharmonic—Dvořák and Brahms. If you got a ticket, go. Concert starts at 8 PM. Y-Car leaves at 7:15 PM.

Tuesday & Wednesday... March 4 & 5

James Randi will discuss "Science, Magic, and the Paranormal." Baxter Lecture Hall at 8 PM. Same talk both nights. Co-sponsored by the Y and the Skeptics.

Wednesday... March 5

Noon Update—"Nuclear Power—A Failure?" Discussion with Milton Plesset, Professor Emeritus of Engineering Science. Talk starts about 12:10, so feel free to bring your lunch.

"The Plight of America's Cities," a discussion with San Antonio Mayor Henry Cisneros. In the Y Lounge at 10 AM.

Thursday... March 6

Magic Show & Dinner with James Randi, at the Pasadena Hilton at 6:30 PM. The Y has 16 FREE tickets. Sign up now. Proper dress required. Students only.

Friday... March 7

Noon Concert with Phranc. At lunchtime on the Quad.

Saturday... March 8

Sailing Trip! All day—leave Tech between 7:30 and 8 AM. Sailing out of Long Beach Harbor.

Whale Watching! Back by popular demand. Anyone who signed up for the first trip but didn't get a ticket should get to go this time. Boat leaves Long Beach at 10:30 AM. Y-Car leaves Tech at 9:30 AM.

The Y has discount movie tickets for the Mann and Pacific Theatres. \$3 each. Good anytime.

The Y needs you! Be creative! Get elected to the Y ExComm. Meetings every Monday at noon in the Y Lounge.

THE ASCIT MOVIE

TONIGHT at 7:30 and 10:00
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Staff Meetings

There will be a meeting Tuesday at 7:30pm for *Tech* staff members. There will also be a meeting Tuesday at 8pm for all *Tech* and *Big T* photographers.

Both meetings will be in the *Tech* office, 107 Winnett. Be there.

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Guest Editorial

from page 2

forms of government is the allowance made for an opposition. Perhaps the candidate you favored didn't get elected house president; chances are, the veep or the treasurer or somebody is more to your liking. You can't win 'em all.

Sometimes, democracy is abused. One group of voters either achieves a solid majority or coerces enough of its opponents to be able to simulate one, then forms a government of only the "right" people; a substantial minority may find itself unrepresented. More often than not, the leaders take advantage of their positions, perhaps resulting in a dictatorship. Without a majority of votes, the opposition is powerless to stop this; and to make sure, the leaders often ignore elections or revoke the opposition's suffrage or somesuch. Nothing can be done because the opposition cannot speak.

The United States has helped ensure against this possibility by choosing a representative form of democracy. While the president may or may not be to your liking, much of Congress probably is. Checks and balances, all that stuff. After 199 years, the United States Constitution defines and represents the oldest continuous government in the world.

The ASCIT bylaws are now fifty-one years old-not too shabby an achievement, either. But I find it amazing that ASCIT has lasted so long without any sort of student council. The houses are

represented on the IHC, but only by their presidents; if you're not a supporter of your house president, what can you do? There are two representatives-at-large on the BOD, but the other seven members are officers and committee chairmen, part of the ASCIT administration. One might as well automatically put 338 representatives and 78 senators on the president's payroll. There have been no known abuses of ASCIT power or funds only because Tech is a small school, and everybody knows everybody else; but that is no guarantee for the future.

Presidents' Day is an appropriate occasion to honor past presidents, and to consider the pros and cons of current one at various levels of government. They certainly deserve your respect; but only you have the right to decide whom to support. If there is no representative in your government worthy of your backing, you might as well be mute. The *Tech* always welcomes letters, but it is independent of ASCIT and your letter may be ignored by the administration. What is to be done?

Last weekend, there was a Student-Faculty conference. All sessions were open to the public, and no one was denied a voice. If your voice was not heard, there is no one to blame but yourself.

-Matt O. Rowe
Former Editor,
The California Tech
Okemos, Michigan

The Inside World

Dabney: A nervous hush descended over the bar. The bartender looked intensely at me. I stared right back. I finally spoke: "Maybe I can refresh your memory." I picked up my DarbCard™ and waved it in front of him. Multicolored light glanced off the hologram. "I've got a credit limit so high it would stun an ox." He kept looking at me. "You're quite sure you don't know anything about a Dr. James Xi?"

Very slowly, enunciating each word with a kind of sickening emphasis, the barkeeper said, "We don't take Dahb Cahd heah." Naturally, I was somewhat taken aback. I had him ring up my tab on Carte Blanchard™, and left.

I found my car parked in by a red pickup truck. It was one of those small ones. Not a real pickup truck, but an amazing simulation. Oklahoma plates. "Them again?" I asked myself. That same truck had blocked my way before - one time too many. I decided. I could have called the cops, and they might ticket it; but then again they might not, and it wouldn't help me anyway. I decided that a direct approach might be more beneficial. I opened the trunk of my car and removed a box marked "DANGER: EXPLOSIVES." I opened the top and turned a dial. A computerized voice said somberly, "WHOOP. WHOOP. WHOOP." I put the box into the pickup's bed. "WHOOP. WHOOP. WHOOP," continued the voice. I walked calmly to my car, brushing off my hands. I got in my car, closed the door, fastened my seatbelt, and started the engine. "WHOOP. WHOOP. WHOOP," the voice said. A flash of light, and the truck was neatly vaporized. I put the car in reverse as the Oklahoma plates fell with a clang to the ground.

- "J"

Fleming: The Week in Outline:

Frosh Wash - but where are the frosh?

Volleyball vs. Page - Splatter, Stomp, Crunch

Football vs. Lloyd - See Volleyball vs. Page

Toga Party - Undoubtedly bitchin'

Wine and Candlelight - "Blast" said most of the participants.

Or was that "Blasted"?

Mark Eggleston - Fleming's own Blue Ribbon Chef

Sarah Santoro - Whipping cream goes on. Mouth goes off. A miracle? Also see: Wine and Candlelight

- "G"

Ricketts: Finally, the bird is down and trayball season is officially open. Trayball is the official game of the Saxies. Sprite is the official drink of the Saxies, except in France where it tastes like bubbly clear yuck-water. *Jubjub* is the official word of the Saxies.

Frosh, please bring your closet doors to the lounge today for inspection. Sophomores, roll out the barrel. Juniors and seniors, prepare to become excessively drunk [Scotch Whiiiiiskey! -Ed.]. Everyone, please get your junk out of the lounge. Something may be happening this weekend.

Let's get psyched up for elections this Tuesday night! Let's sing lots of songs about barrels and rolls and snow and musical glow-worms. Let's all go to Wendel's for one heck of a cau-cau. It's a foot-long lau-lau. Better than poi, better than pig. Wendal's lau-lau's pretty biiiiig.

Buy more cheese!
-Saxy

Limited Serious

by "Biff" Banks



Norman's act of kindness in releasing the genie was not returned.

Free Tickets To See The Amazing Randi

Sixteen free tickets to a banquet and James Randi magic show at the Pasadena Hilton hotel have been made available to Caltech students by the Southern California Skeptics.

The dinner is Thursday, March 6 at 6:30 pm. Along with Randi, *Los Angeles Times* columnist Jack Smith is on the program. The event is the first annual Southern California Skeptics Banquet, and provides an opportunity for guests to meet the SCS board of directors and to

Pauling

from page 1

ed discovering the double-helix structure of DNA. In 1954 he was awarded the Nobel Prize in chemistry for his outstanding contributions toward understanding chemical bonding. In 1963, he was awarded his second Nobel Prize for his peace efforts.

Pauling's later career has centered on medical issues. He has shown, with Harvey Itano, that sickle-cell anemia is a hereditary molecular disease, and he has investigated the use of large amounts of vitamins for the treatment of various diseases.

GRADUATE STUDY IN ELECTRICAL ENGINEERING AT USC

A faculty representative will be on campus on Tuesday, March 4. Sign up for interview at Career Development Center, Parsons-Gates Hall.

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FEATURES

"It's The Law"

with Mike Roberts

Number 1: Amber

Today in "It's the Law," a reading from the Vehicle Code of the State of California. All you have to do is spot the three-word phrase contained in section 112 that cannot be conceived in the Mind of Man.

Amber

112. "Amber" has the same meaning as "yellow," and is within the chromaticity coordinate boundaries for yellow specified in regulations adopted by the Department of the California Highway Patrol.

Added Ch. 287, Stats. 1977.
Effective January 1, 1978

The remainder of today's discussion is intended primarily for readers who have seen Terry Gilliam's film "Brazil."

Miscellaneous Offenses and Provisions

11372.5 (a) Every person who is convicted of a violation of Section 11350, 11351, 11352, 11355, 11358, 11359, 11361, 11363, 11364, 11368, 11377, 11378, 11378.5, 11379, 11379.5, 11380, 11380.5, 11382, 11383, 11550 or subdivision (a) or (c) of Section 11357, or subdivision (a) of Section 11360 shall pay a criminal laboratory analysis fee in the amount of fifty dollars (\$50) for each separate offense. The court shall increase the total fine necessary to include this increment.

With respect to those offenses specified in this subdivision for which a fine is not authorized by other provisions of law, the court may, upon conviction, impose a fine in an amount not to exceed fifty dollars (\$50), which shall constitute the increment prescribed by this section and which shall be in addition to any other penalty prescribed by law.

Fee for Law Enforcement

9250.8 . . . you can look this one up for yourself.

Stopping Flowers and Loose Sand

A Weekly Column by Doug Cutrell

Tech is just like a big hairpin. A new freshman arrives here, and what does he see but—Whack!—himself. How unnecessary and futile! How pendulous and inflorescent! In these columns, I will discuss how to visualize without seeing, how to listen without understanding. If you understand my words, then you must be pretty hot stuff, but if you do not read them, I will talk about you.

On with the show:

Two zendents went into a field of flowers, to test their contrary methods of learning. The younger zendent meticulously examined every leaf and flower. When the time came to leave, he felt confident that his observations would prove more complete, because his elder had spent the whole time playing in a dandelion thicket.

They asked the great zensicist Charon to judge their contest. He consented, and the younger zendent presented an encyclopaedic description of the field, while the elder stated, "I had the most lovely time in this little field." After presenting their positions, the zendents bowed and respectfully awaited Charon's judgment.

To their horror, they saw him suddenly whip a Tommy gun from under his robes. He sprayed the zendents with a rain of hot lead death. As he searched the pockets on their bleeding bodies, he mused, "It was your choice, to see the gun or not to see the gun. Had you been more observant, you would have run away. As it is, I have a nice new watch," strapping on the elder zendent's Seiko.

Moral:

Don't look a gift horse in the mouth. If you bear a grievance against your neighbor, slay him, while if you lust for his body, inquire "So, do you come here often?" Hang loose, take care, and tune in next week for meditations on the Ninth Celestial Order of Nirvana. Bye.



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ENTERTAINMENT

Kismet — No Excuse Not To Go

by Diana Foss

TACIT sure knows how to put on a show. *Kismet*, this year's Caltech/JPL musical, is a lark, a glittering, sumptuous evening's fantasy. It has its weak points, most notably uncoordinated dancing and singing that is sometimes too low or too soft to hear, but it is such fun that it's easy to forgive.

Like last year's *Mikado*, *Kismet* is blessed with stunning posters and a lovely set. The eyes of a mysterious veiled woman lure you into the world of the exotic, skillfully rendered by set designer Eric Warren. Especially effective are the ornate mosque lantern that lights the stage, and the real fountain in Marsinah's dream house. The costumes are exceedingly rich: embroidered velvets, gleaming belts of coins, swirling veils; the entire show is beautifully designed and just plain beautiful.

Fortunately, the players by and large live up to the premise of their surroundings. Superbly cast are Robert Lang as the evil Wazir and Eleda Krueger Blair as his wife, the luscious Lalume. Her unabashed pursuit of the pleasures her husband obviously cannot give her ("That's a new guard isn't it? The tall one?" she coos) is a joy to watch, as is her husband's utter dastardliness as he stamps around, wrecking the lives of ordinary citizens of Baghdad.

Dan Grützmacher, as Hajj, is also very good, but his performance suffers from the fact that he sings bass. Seven of the numbers are sung by him, and his extremely deep voice made it difficult to make out the lyrics. His acting lacked some of Lang's fluidity, but he is also very funny, especially when he begins his new career as a beggar.

Kris Lofdahl-Beckwith is a very spunky Marsinah, although she loses a bit of that fire near the end of the show. Her singing, too, is difficult at times to understand, because she, as well as Blair, doesn't sing loudly enough to rise above everything else, especially when there are several other people singing.

Rod Goodman, as the Caliph, has just the opposite problem. His singing is the finest in *Kismet*, a beautiful, pure tenor, but his character is completely without fire. Of course, the Caliph is sensitive and lovelorn, but Goodman's Caliph is timid. Even when he suspects Marsinah of abandoning him, he just sighs softly and shuffles off back to the palace. A small point, but he is also burdened with ugly, graceless boots which do not blend in with his costume. It looks like he is wearing his street clothes beneath his robes.

Also worthy of mention are George Williams as the silky Omar Khayyam, Bert Cresta as the knowing Chief of Police, and Mark Beckwith as the doddering Jawan the Brigand (as well as the sly, but less obtrusive, Bangleman).

The other major problem *Kismet* has is with its group scenes and its dancing. The huge cast in their lush costumes are essential to the show's exotic appeal, but when they all have to move, especially when there are several people dancing, the results are sometimes



very uncoordinated. The dancers in particular were not always on time, and several times seemed to forget their choreography. Other dancers, however, such as the Princesses of Ababu (Rosallyn Vizza, Laura Ekroot, and Wennie Wu) and Zubbediya (Jacqueline Dixon) are quite good, very graceful.

It's always too easy to find fault, and *Kismet* really is a great show. The setting is gorgeous, the dialog is funny and the music, especially those old standards *Stranger in Paradise* and *Bangles and Beads*, is first rate. With tickets at \$5.00, Techers have no excuse not to go.

New Woody



Photo by Chris Meisl

by Peter Alfke
Hannah and Her Sisters
Directed by Woody Allen

The impending arrival of a new Woody Allen film is always cause for celebration, and, lately, for some confused anticipation as well. So, one asks, *what's this one going to be like?* Since the end of his zany comedies, Allen has given us smooth urban serio-comedy (*Annie Hall*, *Manhattan*), straight-faced Bergman homage (*Interiors*), wistful 1930's fantasy (*The Purple Rose of Cairo*)... the only common denominator has been that all (even *Stardust Memories*) were good.

In *Hannah and Her Sisters* we see Allen's best fusion yet of comedy and serious drama. The seriousness is apparent from the very beginning: stark white-on-black titles flashing one by one, followed by, of all things, a chapter title. In the film itself, however, Allen keeps the somber introspection to a minimum, even getting some jokes out of it, and uses his dramatic skills to present and develop fully realized, delicately drawn characters. We laugh not at cartoon situations or existential slapstick, but at real people.

The Hannah of the title (played by Mia Farrow) is the eldest of three sisters. Calm, talented, compassionate, she is the center about which both the family and the film revolve. Alienated by this seeming perfection, her husband Elliot (Michael Caine, playing a very Woody Allen character) becomes romantically obsessed with her sister Lee (Barbara Hershey). Lee, likewise, is pulling away from her lover, an autocratic, gloom-laden older artist (played by Max von Sydow), and Elliot's bumbling advances set into motion the major plot-line of the film.

Not that there aren't others; rereading Tolstoy's *Anna Karenina* (but not, presumably, watching *Days of Our Lives*), gave Allen the urge to intercut and interact several stories. We also see Woody himself as Hannah's neurotic, hypochondriac ex-husband, who learns that he may have a brain tumor, and Dianne Wiest as sister Holly, who (despite good intentions and a sweet nature) is rapidly going nowhere.

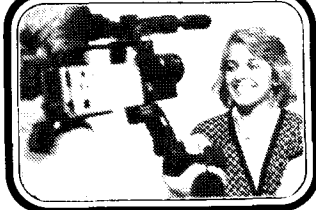
Mickey's earlier discovery of his sterility destroyed his marriage to Hannah; now, confronted by possibly-impending doom, he loses his faith in anything and begins to search frantically, from Catholicism to chanting Hare Krishnas in a park, for some sense of meaning. This search comes off in fine Woody Allen style; after becoming a Catholic, Mickey brings home a shopping bag filled with 3-d Jesus postcards, tacky statuary... and a loaf of Wonder bread. Asked to explain how a loving God can let humans suffer and die, his irate father replies, "How

should I know? I don't even know how the toaster works!"

Holly's own search is far less explicit; a Yuppie on the edge, her inability to find any sort of success in life is compensated for by large quantities of cocaine and tranquilizers. Even when at last she finds her forte in writing fiction, her stories, thinly-fictionalized depictions of her friends and relatives, get her in trouble with Hannah.

One might think that these ricocheting plots would result in a disjointed film, but Allen does a wonderful job of keeping things from flying apart. Hannah has no larger a part than anyone else, but her presence, and the ties between the three sisters, are essential. There's a beautifully shot scene at a restaurant table, at which Hannah and Holly argue while Lee slowly falls apart; the camera circles slowly around the sisters, emphasizing their differing emotions while pointing out the ties between them.

The film ends almost as it begins, at a family get-together, but much has changed. Mickey is back in the fold, and far less neurotic than we've ever seen Woody Allen; likewise, most of the other conflicts have been resolved. It's a happy, sweet ending, all the more so because one can truly feel for the characters. *Hannah and Her* is as successful in what it tries to accomplish as any other of V Allen's movies; it truly seems he is growing from a great comedian to a great filmmaker.



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Conference

from page 1

of their small number, have enormous power to change Caltech. Yet because of widespread apathy, reflected in Saturday's low student turnout rate, the most positive action most students ever take is constant complaining about how rotten life at Caltech is.

Teaching Quality

The seven committees of the

they see no chance of ever qualifying for an award, and that students do not see the Administration as caring all that much about teaching. This last prompted angry replies from President Goldberger and Provost Vogt, who insisted that Caltech takes teaching very seriously, and that teaching is a factor in tenure and promotion for faculty. Yet the fact that students perceive teaching quality as being of little concern is a telling one, no matter what the reality of the situation is. Professor Bruce Cain, a committee member, proposed a tax levied on departments, to the tune of \$5,000 for each unacceptable

completely new building. The first option is seen as unacceptable because of its inconvenient location and the stated desire of the committee to have a campus center where faculty, undergraduates and graduates would all feel comfortable. The South House basement is seen as undergraduate turf, and it is unclear whether even North House students would trouble to come down there. Winnett centers serves many useful functions already; there is not enough room in it to accommodate the facilities the committee would like to see. A drastically remodeled, or even replaced, Winnett Center is

widespread agreement that the South House basement was an inappropriate place for a campus center, and an unvoiced fear that the administration would attempt to justify it as such. Provost Vogt stressed that the administration was committed to the South House renovation now, and any other campus center must come later, but that they would not try to pass the renovated basement off as a solution to the problem of there being no real meeting place on campus. He also expressed surprise that undergraduates and graduate students would want to meet on a social level, to which several people responded that there has always been a strong desire on the part of the two groups to get to know each other, but that there has been no place to meet casually on campus. On the subject of athletics, there was strong agreement with all the committee's recommendations, with Professor Tombrello putting in a plea for new men's showers. In general, the committee stressed the need for greater interaction between different facets of the Caltech community, and a need for incentives to get house-bound undergraduates out into the campus at large.

Core Curriculum

Core Curriculum and H&SS sparked much discussion. The recommendations of the former committee were: 1) More survey courses should be offered in more fields, that more units be allowed to be taken pass/fail, and that auditing classes be made more attractive. Also, that more comprehensive pre-registration information be sent to freshmen during the summer; 2) That Physics 1b and Math be better coordinated so that students have a chance to learn vector calculus better; 3) That freshmen be allowed to place out of PHysics 1a, and that the Physics department create a new course to be taken by those students first term; 4) That the workload on Physics 2 and Chemistry 3a be reduced; 5) That students should not be required to take courses that overlap (e.g., allowing APH/ME17 to substitute for Physics 2c) and that students be given a choice of classes to take instead of Math 2c, statistics.

There was enthusiastic agreement to the idea that the workload on Physics 2 be reduced. Many students complained about the class, saying that Physics 12, sup-

replied that no one had ever told him about their complaints, stressing the need for an ombudsman system. On the subject of Physics 1b, several professors stated that they would prefer to teach electromagnetism in the second year. Professor Chan then stood up and presented the findings of the *Ad Hoc* Committee on the Core Curriculum (a faculty committee).



THE CORE CURRICULUM COMMITTEE PRESENT THEIR FINDINGS. IS TYLIS SHOWING LAST-MINUTE DOUBTS?

SFC were grouped into five sessions: Teaching Quality, Student Facilities, Core Curriculum and Humanities & Social Sciences, Undergraduate Research and Computing, and Student Morale. Jean Tang presented the recommendations of the Teaching Quality Committee. Although Caltech is primarily a research institution, many students feel that teaching is slighted, especially in considerations for faculty advancement. Graduate teaching assistants are another problem; since they are required to teach, because of financial or departmental considerations, the undergraduates in their classes must often suffer through indifferent to wretched teaching. Feedback mechanisms, such as the Teaching Quality Feedback Report, are not effective at getting across student concerns. Thus, the committee recommended: 1) the creation of a teaching center, where faculty members who need it could get help on improving their teaching skills, and where all graduate TA's could be screened for their suitability as teachers; 2) Replacing many bad graduate TA's with undergraduates, who generally get higher marks for teaching other undergraduates; 3) The creation in all departments of an ombudsman system like that in Biology, where two representatives from each year meet once a month to discuss problems in Biology classes and are very effective at correcting these problems; 4) A midterm feedback report, where students could have a real chance at changing the way a professor teaches a course; 5) Departmental parties, where faculty and students could meet informally and become more comfortable talking with each other.

The discussion ran longer in this session than in any other. The main themes were that professors often have no idea that anything is wrong because there is no good feedback mechanism, and students won't come up and tell them; that the positive incentives the Institute offers for good teaching will not affect those who teach so badly that

class. He predicted that, if it affected their precious budgets, departments would take teaching more seriously.

Student Facilities

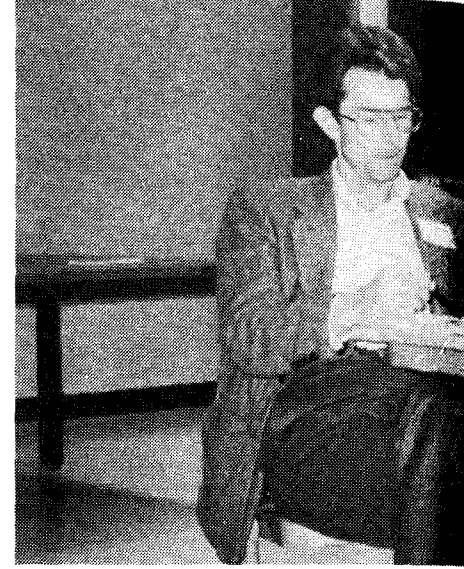
The next session, Student Facilities, dealt with athletic facilities and with a campus center. Larry Siegel reported on the latter, saying that a questionnaire handed out on the subject revealed that 80% of the undergraduates surveyed and 60% of the graduate students felt the need for a new or changed campus center, with facilities such as a snack bar open late hours, an automated teller machine, and comfortable places to relax, a "ski-lodge atmosphere." There are three options for this center: the soon-to-be-remodeled South House basement, a vastly remodeled Winnett Center, or a

necessary to fill the needs envisioned by the committee.

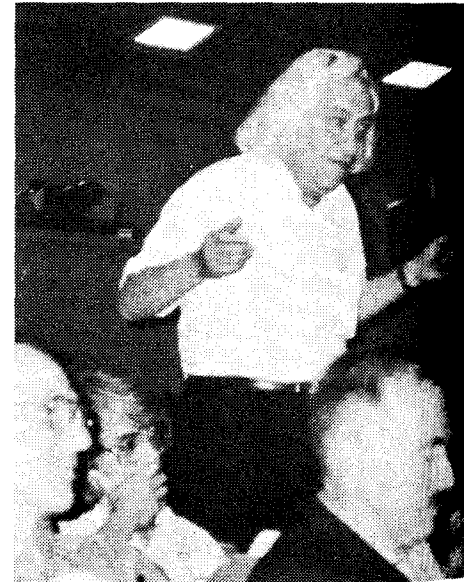
On the subject of Caltech's athletic facilities, Rod Van Meter reported that there is widespread agreement among students, faculty, even the Institute athletic committee, that our athletics facilities are inadequate. There was a tremendous need felt on the part of the survey respondents for racquetball courts, better track and field facilities, and a second gym. The committee also recommends that the second floor of the multipurpose building (which currently houses the women's locker room) be finished. It is noteworthy that Warren Emery, the director of athletics, endorses all of these recommendations.

The discussion that followed this presentation focussed mainly on the campus center. There was

Photo by Rosemary Macedo



MOSH CHRIS BRENNEN AND TED GEORGE PORE OVER



RICARDO GOMEZ EXPLAINS THE TEACHING OF PHYSICS

They were: 1) Reducing the graduation requirement to 248 units; 2) Offering survey courses for third-term freshmen, and allowing the frosh lab requirement to be satisfied anytime during the first two years; 3) "taming" Physics 2 by spending 1/2 term on waves and 1 1/2 terms on quantum mechanics, and allowing students who don't need further physics to take Ph 2 in their junior or senior years; 4) Creating a writing class; and 5) Adding computer programming classes in another department.

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The H&SS Committee recommended the following: 1) Creating an honors program in the humanities where interested students could receive more advanced instruction without the distractions of uninterested students in their classes; 2) Creative writing classes as adjuncts to classes in other subjects, not just humanities; 3) Offering introduc-

tory SS classes are being offered now, and that it is possible to graduate without having taken Ec/SS 11. The committee again emphasized the importance of writing classes, since the purpose of beginning Humanities classes is not and should not be to teach freshmen to write. There was some contention over why intermediate and advanced courses must be

Research and Computing
Student Computing and Research had fewer recommendations; few great changes seem to be needed. The big recommendation of the computing committee is that a very basic programming course be created. Caltech students who know little or nothing about computing (perhaps 25% of the student population) need a course that will

1) to improve the Undergraduate Research Opportunities Handbook by updating it once per term, involving JPL staffers who may have positions suitable for undergraduates, keeping a constantly updated version in the Career Development Center and on line on a computer accessible by CITnet; 2) Creating the position of house research representative to keep students informed of opportunities; 3) Developing contacts with alumni in industry through the CDC and the Alumni Association; 4) Increasing SURF support by endowing it or making it a line item in the budget; 5) Creating written guidelines for SURF sponsors; and 6) Requiring mid-term SURF reports so that students could benefit from constructive criticism while there's still a chance to use it.

The major concerns in the discussion were that the SURF talks in October are poorly attended and serve little purpose and that too many faculty members see the SURF program as a way of getting an undergraduate helper without having to pay any of their own money. SURF projects should be truly independent and important enough to warrant good attendance at the SURF talks.

Which brings us to . . .

Student Morale

Chair Ted George posed the question, "Does a 25% dropout rate have to go hand in hand with the finest in scientific education?" He believes that, no, it doesn't have to be that way. The committee divided its recommendations into three parts: social life, faculty-student relations, and academic burnout.

Bibi Jentoft-Nilsen addressed the first issue. From the surveys handed out by the committee, they found that students want to meet people from outside with similar interests, and that, not surprisingly, students are unhappy with the low woman:man ratio. They recommended including students in recruiting efforts to get more people to apply, making it easier to take classes at other schools like Oxy and Art Center, and offering more opportunities for creative expression on campus.

Joy Watanabe dealt with faculty-student relations, stressing the need for both groups to make stronger efforts to communicate. She echoed the recommendations of the Teaching Quality committee for faculty-student parties. Students who are comfortable with a pro-

fessor will find it easier to come forward with academic problems. The committee also recommends a section in the handbook for new faculty on the honor system and one covering what students in the various years have learned. The advisor system is also in need of repair; too many advisors just don't care enough about their advisees.

Rob Fätland addressed academic burnout, a very serious problem. To reduce the workload, the committee favors the 30-40-50 plan, whereby the underload limit is dropped to 30 units, the average load per term to 40 units (lowering the graduation requirement to 480 units) and the overload to 50 units. The student body, responding through questionnaires, endorsed the first two numbers, but overwhelmingly rejected any attempt to limit the number of classes any student can load himself down with. The committee thus only officially recommends the 30-40 part of the plan. They also recommend extending winter and spring breaks for one week each, eliminating scheduling conflicts as much as possible, and lunchtime classes entirely, and instituting a study period of a few days before finals week where no classes would be held, and no homework or finals handed out or done.

Discussion at this last session ranged widely. There was a popular call to eliminate classes, or at least homework, during midterms week and to confine all midterms to that one week. Similarly, the need for a study period was called into question; better to have all finals due at the end of finals week. The fact that there is a sort of peer pressure to take as many units as possible was brought up, and that this applies mainly to freshmen. Professor McGann expressed the opinion that students should not be allowed to take so many classes, no matter how much they think they can handle, that they should be put into a position where they have to work on other parts of their lives. Dean Lorden and MOSH Brennan strongly endorse the option of taking 5 years to graduate. Several students expressed concern that lowering the number of units required for graduation would compromise the quality of a Caltech education.

On the topic of faculty-student relations, there was great interest in the faculty fellow program where each house has several faculty members associated with it who come to dinner and other social occasions on the House. Joy Watanabe said that there is much students can learn in the manner of social graces from faculty members, but Professor McGann stated that students would have to learn more manners before he would go to a student house dinner.

Committee member Frank Kragh summed up the conference with two cogent observations. First, although 25% of the respondents to the survey said they were unhappy at Caltech, 33% said they were very happy here. And second, $A \times B = -B \times A$.

Again, no matter how wonderful these proposals might sound, nothing will be done without a strong show of interest and support from students. Just because the SFC is over and all the proposals have been aired doesn't mean there is no more work to be done. Let the administration know what sort of changes you want; either attend the post-conference meetings (see Lisa Henderson or Dave Bruning for details) or just write a letter to the Provost to tell him what changes you want to see made. It's easy to ignore someone who won't speak up, and Caltech students seem to find so much to complain about that it will be hard to take those complaints seriously if these proposals don't garner any support.



Photo by Rosemary Macedo

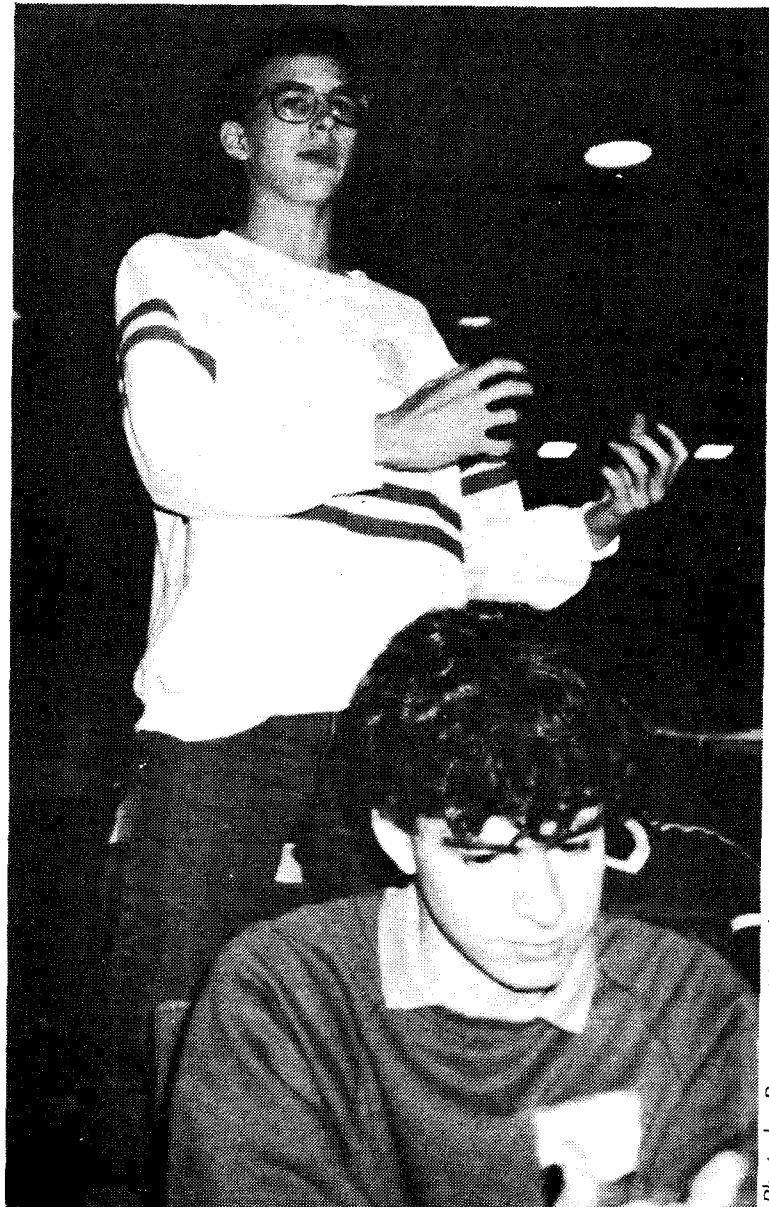


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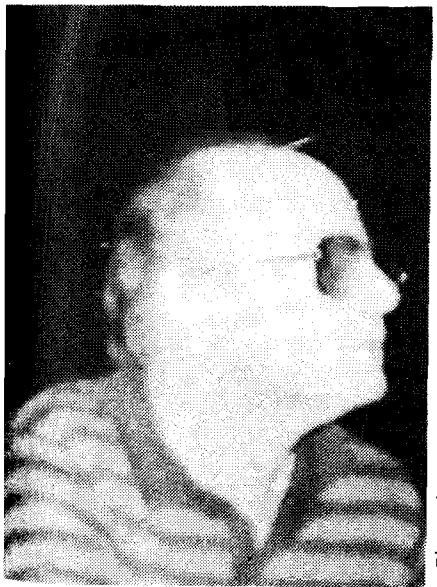


Photo by Rosemary Macedo

YOUR FAITHFUL EDITOR LISTENS TO WHAT LLOYD PREZ CHRIS NOLLE HAS TO SAY.

tory social science classes every term; 4) Offering art history and psychology classes. Committee member Professor McGann pointed out that the first two should be realized by 1987, as they are already being implemented.

The main concerns in the general discussion centered on the chronic student confusion about the H&SS graduation requirements, and H&SS Chair Professor Grether stressed the fact that more in-

taken in the same subject; there seems to be little difference between them save the course numbering and the amount of writing required. Finally, the wisdom of the Institute's not accepting AP credit from high school was called into question, as well as it seeming unconcern for the importance of foreign languages. Professor Rosenstone agreed to take up both of these topics with the humanities faculty.

cover every little detail that experienced programmers take for granted, such as how to get on a computer system. Discussion on this point centered mainly on the unsatisfactory nature of the current classes that purport to be basic computing classes, such as E1 and Ph 20.

Student Research similarly found no major problems. Saxy Workman, wearing spiffy new shoes, presented their recommen-

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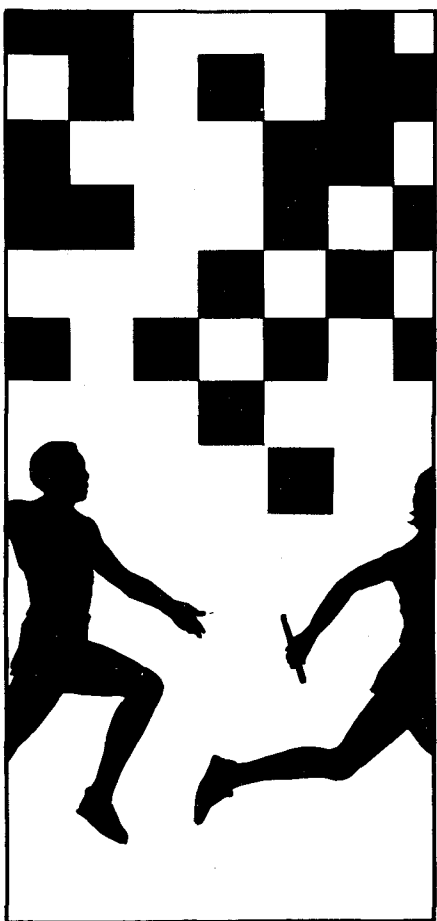
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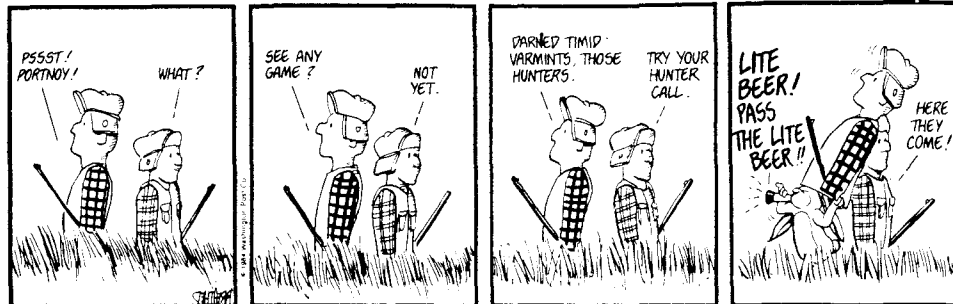
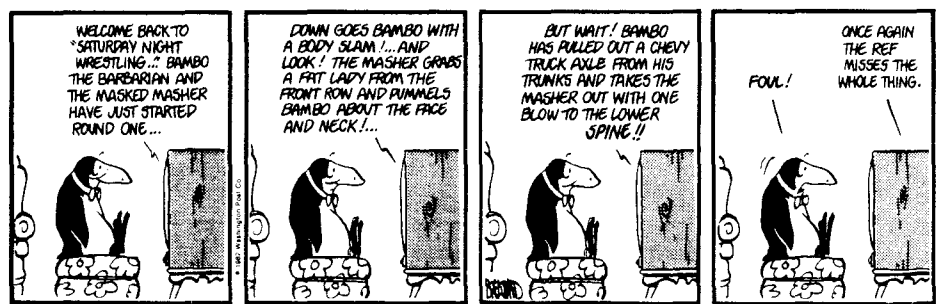
ON-CAMPUS INTERVIEWS Monday, March 10, 1986

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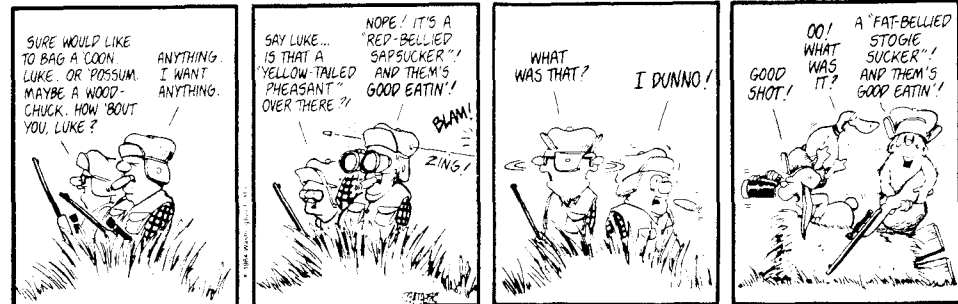
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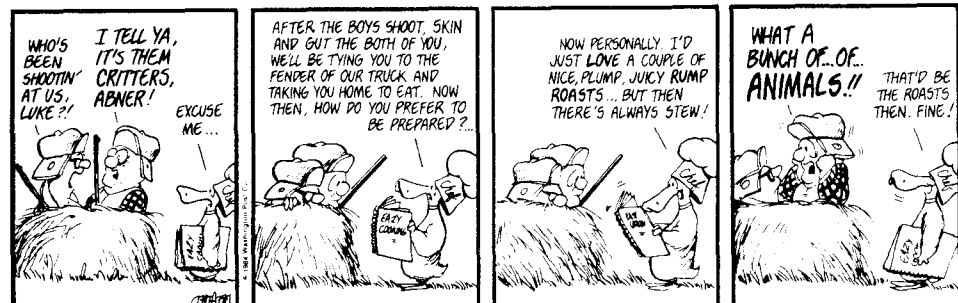




BLOOM COUNTY



BY BERKE BREATHED



These past strips provided while Berke Breathed recovers from an airplane accident.

Berke OK

by Al Leeds
Special to the Tech

After a 29-day hospital stay, Berke Breathed has returned to his Albuquerque home and is anxious to continue the saga of Bloom County. Six weeks of old strips, including Sunday strips, have and are being run during the hiatus. But, barring unforeseen events, March 24 will see the beginning of new daily strips and April 13 will kick off the first of the new Sundays.

Berke was in much pain from a compression fracture of the vertebrae he suffered when his ultralight plane crashed January 22. Five and one-half hours of surgery were required, and his hospital stay was extended until February 20 because of difficulties with anticoagulant medication.

While in the hospital, Berke was heartened by the support of his customer editors and fans. He received over 100 bouquets, 600 cards, and messages from the likes of Barry Manilow, Mario Cuomo, Ted Koppel and Diane Sawyer.

Newman Club

The Newman Club meets in the Y Lounge every Wednesday evening at 7:30 pm. Friendly discussion and refreshments.

Caltech Gamers

Every Friday night in Clubroom 1 of Winnett, the Gamers gather to play various fantasy, science fiction and historical simulation games. Fridays are primarily for role-playing games, and times are picked for sessions of other games and gatherings. Just drop in any time between 7:30 pm and midnight.

Hillel At Rest


Tuesday afternoons from 4:30 to 6:00 pm is an informal gathering of Hillel and Caltech Jewish community in the Y Lounge, 2nd floor of Winnett Center. Refreshments and a little relaxation. For information, call Myra Baxter (213) 208-4427, or drop in.

Bible Study

Wednesdays at noon in the Y Lounge are the time for a Bible study and discussion group. Bring a lunch. For information, call Paul Dunlap, 356-4670.

SPRING SEMESTER

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SPORTS

Beaver Swimmers Attend Conference Championships

by Skip Schotte

At the three-day SCIAC swim meet in South Gate, where final placements were determined, Caltech's men's team battled Occidental for third place. All of the Tech swimmers "had to swim their very best to stay ahead of Oxy," reported Coach Clint Dodd. The first day was the weakest for the Techers, but with superior performances from freshmen Brian Hayes (2:07.52 for the 200 IM) and Jim Taylor (22.44 for 50 Free), Caltech trailed Oxy by only a small 70 to 67.5 margin.

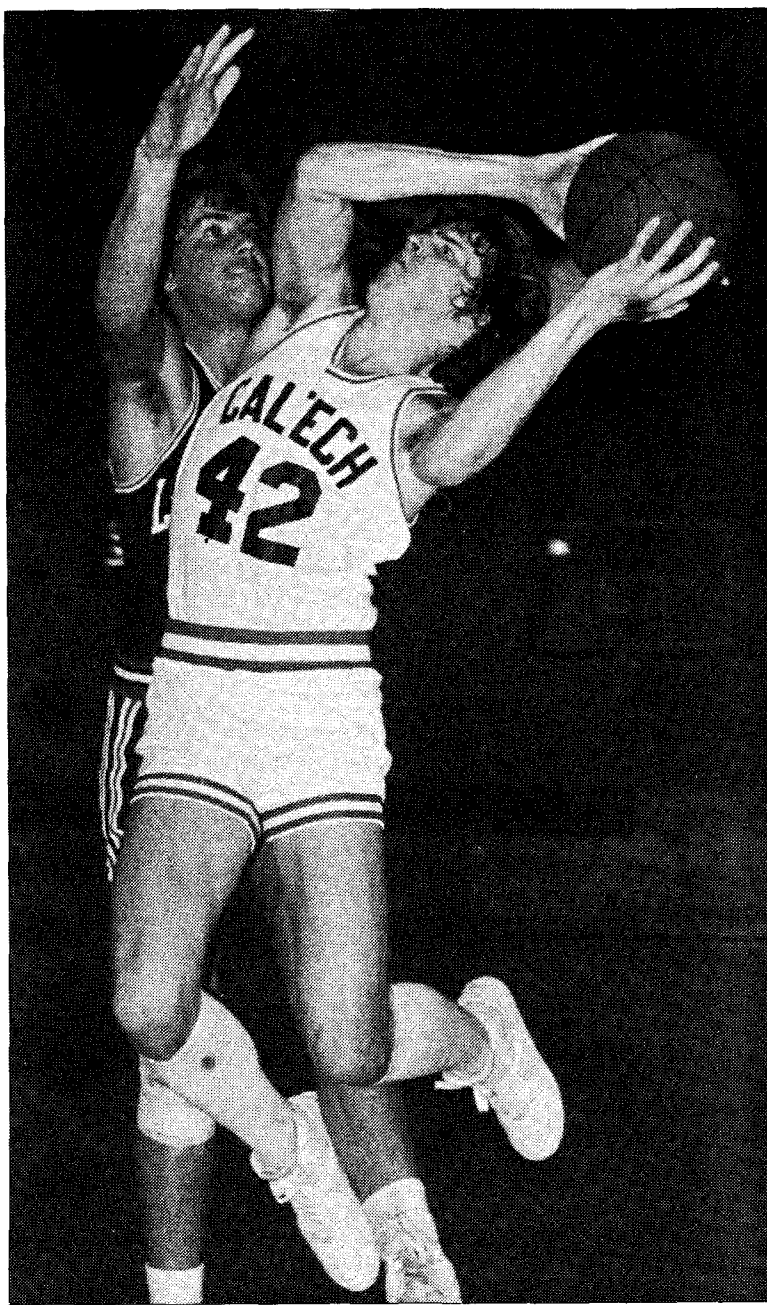
At the beginning of the second day, the women's team led off the meet with an excellent 200 Free Relay, breaking the two-minute mark with a time of 1:59.07. This race set the tempo for the rest of

the meet. Christie Cooper set a new school record of 1:08.46 in the 100 Back Stroke. Randy Brown shone for the men's team as he dropped three seconds from his time to finish with a slick 56.99 100 Fly, with freshman Devin Leonard not far off the pace with a 1:01.58. The men's 100 Back was a big race for Caltech as senior Robbie Dow placed 10th, Hayes placed third (59.27), and Taylor took second (58.79).

The last race of the day proved to be the closest for Caltech, as they took to the water with the Oxy and Whittier 800 Free Relay teams. Caltech proved just a little stronger, touching ahead of the other schools and dropping 13 seconds from their previous best to post a 7:35.60 third place.

On the last day, Caltech lengthened their 26.5 point lead over Oxy thanks to more great swims. Freshman Jordan Holt and sophomore James Hammond handled the distance races while freshman Boyd Bangerter, senior Hans Hermans and senior Andy Tikofsky led the way in the sprints. Junior John Sarapata, senior Fred Ferrante and junior Clea Bures swam their strokes well. Tech's divers, seniors Harold Felton and Heidi Langeberg, plus junior Michael Rhodehamel scored valuable points for the Beavers.

The conference meet ended with nationally ranked Claremont dominating, followed by Pomona (518), Caltech (362.5), Oxy (305.5), Whittier (166) and Redlands (70).



CALTECH'S JEFF LESTER DRIVES TO HIS BASKET IN SPITE OF AN OBSTINATE DEFENDER. THE BEAVERS WERE VICTORIOUS IN THEIR FINAL MATCH OF THE SEASON AGAINST PCBBC.

photo by Rod Van Meter

WEEKLY SPORTS CALENDAR

Day	Date	Time	Sport	Opponent	Location
Fri.	2-28	All Day	Golf	So. Cal. Intercollegiate Tourn.	Torrey Pines
Fri.	2-28	All Day	Fencing	Men's NCAA Western Reg.	U. San Francisco
Sat.	3-1	All Day	Golf	So. Cal. Intercollegiate Tourn.	Torrey Pines
Sat.	3-1	All Day	Fencing	Men's NCAA Western Reg.	U. San Francisco
Sat.	3-1	12 noon	Baseball	Whittier	Caltech (2)
Sat.	3-1	1:00 pm	Women's Tennis	Pomona-Pitzer	Pomona-Pitzer
Sat.	3-1	1:30 pm	Men's Tennis	Whittier	Whittier
Sun.	3-2	All Day	Fencing	Men's NCAA Western Reg.	U. San Francisco
Sun.	3-2	1:00 pm	Women's Soccer	TNT	La Salle High School
Mon.	3-3	1:00 pm	Golf	Whittier	Pomona-Pitzer
Tue.	3-4	3:00 pm	Baseball	Whittier	Whittier
Tue.	3-4	3:00 pm	Men's Tennis	La Verne	Caltech
Fri.	3-7	All Day	Fencing	Women's NCAA West. Reg.	Cal State Fullerton
Sat.	3-8	All Day	Fencing	Women's NCAA West. Reg.	Cal State Fullerton
Sat.	3-8	11:00 am	Track	Whittier & Pomona-Pitzer	Caltech
Sat.	3-8	12 noon	Baseball	The Master's College	Master's (2)
Sat.	3-8	1:00 pm	Women's Tennis	Redlands	Redlands
Sat.	3-8	2:00 pm	Men's Tennis	Pt. Loma	Caltech
Sun.	3-9	1:00 pm	Women's Soccer	Shakers	Caltech

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Techers Sink PCBBC

by J. Hoopstien

In their season finale, the Caltech basketball team showcased their awesome talent, destroying Pacific Coast 72-51. Seniors Jeff Lester, Brian Porter, and Jim Helgren led the Beavers to victory in their last appearance together (until next year's Alumni game). But a recurring ankle injury to Lester sidelined him in the first half. Caltech took a big lead into intermission due in large part to the offense of Helgren and Porter, together with juniors Brett Bush and Ed Zanelli. The Beavers then

powered on to victory in the second half.

Coach Mike Poizner boasted that this is probably the most talented team he has coached in his six years at Caltech. Brad Scott, Tom Bewley, and Rob Fäland, all newcomers this year, added great depth to the squad. Next year these Beavers will return to St. Louis to play in the Lopata Classic. The Caltech basketball team traveled to the event last year but did not make the trip this season.

See you next year.



VICTORY - JIMBO "HAMMER" HAMRICK SHOWS HOW THINGS ARE GOING WITH THE BEAVER BASEBALL TEAM LATELY. SEE THE GAME REPORT ON PAGE TEN.

photo by Min Su Yun

SPORTS

Beaver Baseball Whale On Pacific Coast

by Doug Oute

It was just a matter of time. After losing several games by only a few runs, the Beavers were due to win, and last week they finally came through, pounding Pacific Coast Baptist Bible College 13-1 and 11-3. The two victories raised the Beavers' win total to three for the year.

The first game of the double-header at PCBBC was a close match. Caltech struck early in the top of the second inning, with Jim Hamrick crashing a lead-off homerun over the right field fence to highlight a four run inning. PCBBC answered with one run of their own to make the score 4-1.

Caltech added a run in the fifth inning to make the score 5-1, but once again PCBBC came back, scoring two runs with a homerun to bring the to score 5-3. The Beavers carried that lead into the bottom of the final inning and

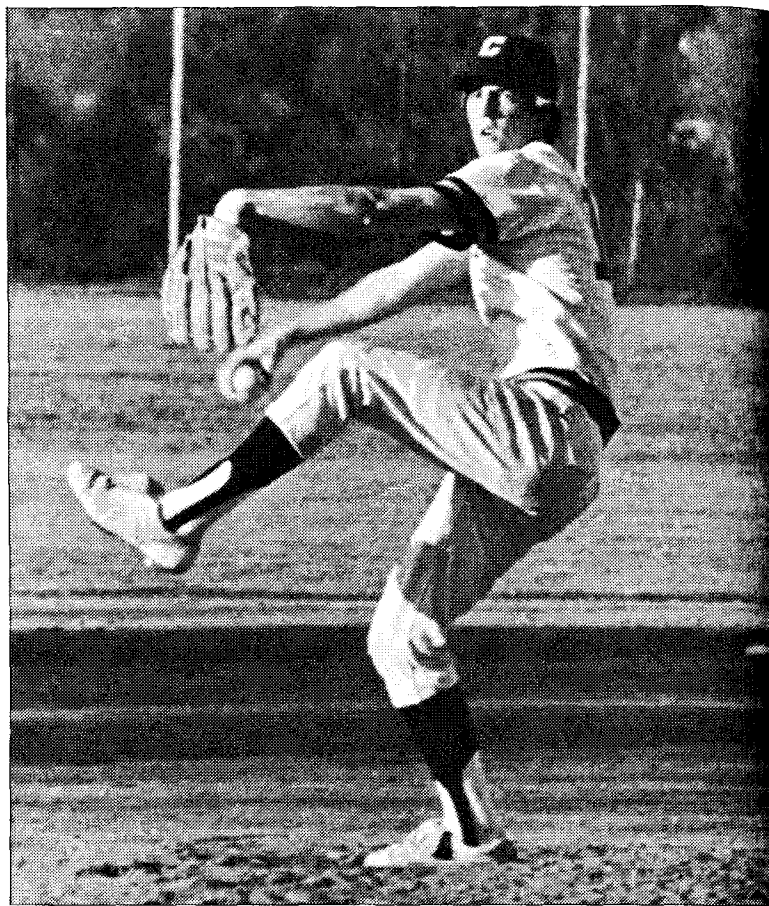
seemed destined for victory, but it was not to be. A costly error with two outs allowed PCBBC to score two runs and tie the ballgame. The next batter up singled to score the winning run for PCBBC, and hand Caltech a bitter defeat.

In the second game Caltech thrashed PCBBC with a vengeance. The Beavers scored four runs in the second inning on a basehit by Doug Roberts and some sloppy defense by PCBBC. In the third inning the Beavers cashed in four more on a double by Roberts and a bases loaded single by Jim Hamrick. PCBBC managed to score an unearned run in the bottom of the third, to make the score 8-1. Caltech continued to pour it on, scoring five more runs and cruising to a 13-1 victory. Brian Colder hurled a six-hitter for the victory.

Tuesday Caltech hosted PCBBC in the rubber game of the

series. The Beavers picked up where they'd left off on Saturday, pummeling PCBBC for four runs in the bottom of the first inning, highlighted by a bases-loaded double by Dave Bruning. Caltech scored two more runs in the second on a triple by Alan Marumoto. In the next inning Michael Keating crashed a homerun into right field to add another run. And in the bottom of the fourth inning the Beavers added four more runs to make the score 11-0. PCBBC managed to score three more runs as the sun was setting, bringing the final score to 11-3. Pitcher Brett Bush allowed only 2 hits in his first outing of the season, while Keating (2-4, homerun) and Min Su Yun (2-3, 1 RBI) provided some offensive punch.

Saturday the Caltech Beavers play their first league double-header of the season at home against Whittier.



BRIAN COLDER WINDS UP FOR HIS - AND CALTECH'S - SECOND WIN OF THE SEASON IN SATURDAY'S GAME AGAINST PCBBC.

Wrestlers Tumble

The Caltech wrestling team placed sixth in the NCAA Division III Western Regional Wrestling Tournament held on 21 February at the University of Wisconsin-Whitewater. Mike Burl placed second overall in the 177 pound weight class, and Tim Cotter took third in the 150 pound class.

Interhouse

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Fleming	213
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Ruddock	138
Lloyd	102
Ricketts	84
Dabney	26

Discobolus

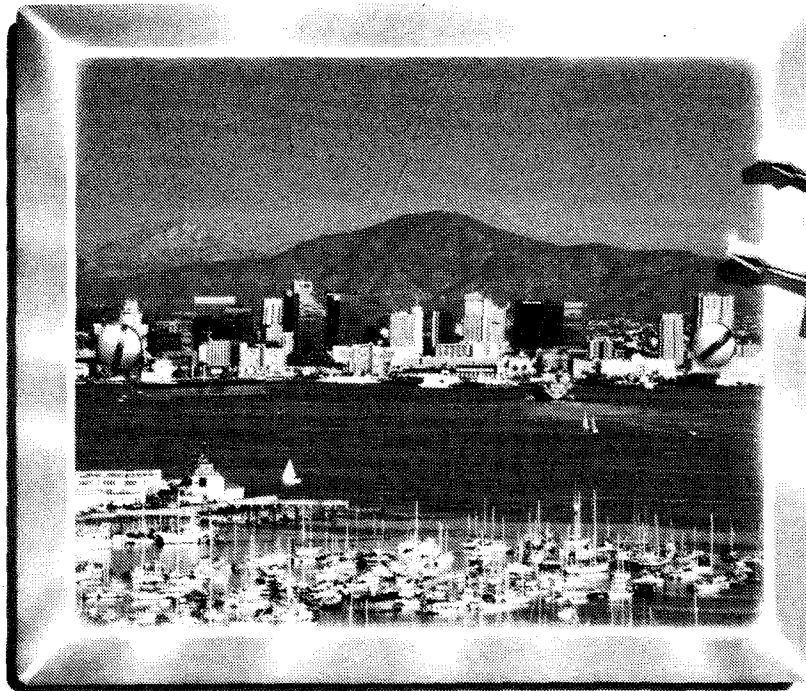
Lloyd	11
Fleming	14
Ruddock	5
Blacker	11
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Dabney	5
Ricketts	6

Fleming and Lloyd play football on Sunday for the trophy.



PHOTO BY TERRY GRIFFE

GET YOUR KICKS-THE CALTECH WOMEN'S SOCCER TEAM LOST A GRUELING MATCH IN SUNDAY'S HEAT. THEY WERE BETTERED BY THE SPINOFFS



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Electrical Engineers
On-Campus Interviews
Wednesday, March 12th



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WHAT GOES ON

Career Counseling

The Gnome Club and the Alumni Association are sponsoring a series of Career Counseling sessions in the Red Door Cafe, from 7:30 to 9:00 pm on the nights listed below. Soft drinks, beer and munchies served.

March 6: Careers in Computer Science and EE.

April 10: Research in industry, academia or non-profit organizations.

May 8: Careers in small, medium or large companies.

May 22: Careers in Biology or Bio-Engineering.

Whalewatching II

Just when you thought it was safe to go back in the water... Join the Caltech Y for Whalewatching II! Come applaud the heart-shaped spouts, the flukes, and the footprints of the California Grey Whale. Boat leaves Long Beach at 10:30 am Saturday, March 8. Some transportation available. \$6 for students, \$7.75 for staff and faculty. Sign up now at the Caltech Y!

Mechanical Universe

The Mechanical Universe, Caltech's own answer to *Mr. Wizard*, is currently being broadcast on three television stations in the LA area: Channel 7, KABC: 5-5:30 am (ugh!), T-Th. Channel 28, KCET: 3:30-4 pm M-W. KLCS, Channel 58: 5:30-6pm, M-W. For more info, call ext. 3753.

Political Internment

The Beckman Internship will be available for the summer of 1986. This internship, supported by friends of Dr. Beckman, pays a stipend of \$2,600. It allows a selected Intern to spend the summer working in the office of a politician and to see from the inside the process of government. The Intern is expected to make arrangements with the appropriate political persons. It is open to any Techer who intends to be a Caltech undergraduate next year. If interested, contact Gary Lorden, Dean of Students, or Jeanne Noda, Associate Dean, ext. 6351, or come to the Dean's Office, 102 Parsons-Gates.

Methods in Math

The math club is sponsoring "Methods in Mathematics," a series of informal talks on powerful and indispensible methods in mathematics and in mathematical sciences. The last talk is "The method of alternating chains in graph theory and combinatorics" by Professor Richard Brudi, a professor at University of Wisconsin, Madison. It will be given on Tuesday, March 4, at 7:30 p.m. in 151 Sloan. Refreshments will follow the talk.

Entertaining Evening

Come for a special evening with singer Craig Taubman, one of this decade's unique Jewish voices. Wednesday March 5, 7:30 pm in the Spaulding Penthouse. Everyone is welcome. Admission is free and refreshments will be served. Information about the United Jewish Fund will also be available and donations are welcome. Questions? Contact Myra at x6163 or (213) 208-4427.

Minorities Symposium

Mayor Henry Cisneros of San Antonio, Texas and president of the National League of Cities, will be among the featured panelists participating in a major symposium on "Minorities in California" on March 5 in Ramo Auditorium.

The symposium will be the occasion of the announcement of the findings of a major report on the political, economic and social impact of minority communities in California. The study, which took two years to complete, was undertaken by Dr. Bruce E. Cain, associate professor of political science, and co-authored by Dr. Roderick Kiewiet, also an associate professor of political science, both here at Caltech. It was commissioned by the prestigious Seaver Institute.

Robert Abernethy of NBC News is moderator of the three panels, where Mayor Cisneros and other political and community leaders and business executives will participate in the symposium and panels.

Open to the public at no charge, the symposium begins at 8:30 am with the panel on "Political Direction of California's Minorities." At 10:15 am, another panel will discuss "Business Opportunities for California's Minorities," and at 2:30 pm, "Community Relations Between California's Racial/Ethnic Groups."

Sunday Volleyball

Every Sunday at noon, there is a session of recreational volleyball at the Gym. Call Tyler Housel for information, x4942.

Wild Sex Nominations

Sign-ups for the offices of IHC Secretary and Food Service Chairman should be up today and will remain up for a week. Interviews will be held in a couple of weeks. So sign up! (Sign-ups are outside the MOSH office.)

Get It Up!

The first meeting of the year of the Caltech Juggling Society will be held today, Friday, at noon on the quad. Bring your juggling pins, bags and rings if you have some, or just show up. Grad students, undergrads, faculty and staff are all invited.

Women in Engineering

The Society of Women Engineers is offering scholarships for women in engineering. For more information and application materials, go to the Financial Aid Office, Room 10, Parsons-Gates, or call or write to:

Gloria Badillo
L.A. Section
429 N. Palm Avenue Apt. A
Alhambra, CA 91801
(818) 249-5252

Application Deadline: March 15.

Third World Anthro

Dr. Thayer Scudder will be giving a talk in Baxter Lecture Hall on Wednesday, March 5 on the topic "Anthropology and Third World Development". The talk, beginning at 3:30 pm, is for secondary school students and teachers, as well as the general public, as part of Caltech's Lecture Series for Secondary School Students.

In his talk, Dr. Scudder will discuss the increased involvement of anthropologists in planning, implementing and evaluating development programs and projects for low-income populations in the tropics and subtropics. He will use examples from his own development work in connection with large-scale river basin development projects in Asia, Africa, and the Middle East.

Let's Go Turtle-Tagging

On a remote beach on the Caribbean coast of Costa Rica in July, August, and September, 40 volunteer field assistants will join researchers at the Caribbean Conservation Corporation's Tortuguero Station to assist in the annual tagging of the green sea turtles.

Sponsored by the New York Zoological Society and the CCC, program participants will thoroughly monitor the activities of turtles emerging from the sea, and make an important contribution to turtle conservation and research.

Professor Archie Carr of the University of Florida has directed this research at Tortuguero for over 30 years. 1986 will mark the third annual expedition by NYZS/CCC volunteers.

Five teams, departing July through September, are now being formed.

Additional information and field applications are available from John Behler, Curator of Herpetology, Bronx Zoo, Bronx, New York 10460; or call (212)220-5152.

Strangers Amongst Us

On Saturday, March 8, the American Friends Service Committee will hold its annual public meeting, "Strangers Amongst Us, Immigrants and Refugees," at Holman Methodist Church, 3320 West Adams Blvd., Los Angeles. Registration is at 12:30 pm. Los Angeles Deputy Mayor Grace Montanez Davis will open the sessions at 2:00 pm. Workshops include discussions of apartheid, reform of criminal justice systems, housing discrimination, U.S. foreign policy, immigration policies and social responsibility in investing. There is also an evening speaker. Admission is free, although reservations are required. Dinner is also available, \$6 for adults, \$3 for children. For further information please call the American Friends Service Committee, 791-1978.

Russian Language

The Russian Language Workshop meets from 7 to 9 pm on Wednesday evenings. For information, call Larry Mak, 354-6748. Visitors are welcome.

Polish Workshop

A Polish language and song workshop meets in 210 Thomas from 7 to 8:45 pm on Thursday evenings. For more information, call Pat Laubert, 354-3002.

Modern Dance Class

A modern dance class for the Caltech community is held in Dabney Hall Lounge on Tuesday afternoons from 5 to 6:30 pm. For information, call Liz Oberstein, x6146.

Aerobics Class

Sandwiched in between the Modern Dance Class and the International Folk Dancing, Dabney Hall is the home of an aerobic exercise class for beginning and intermediate students, 6:30 to 7:30 pm on Tuesdays. The sessions are coed. For information, call Jennifer Wood, 799-6915.

Free Music Class

Pianist James Boyk is offering a free class in interpretive performance on Wednesday afternoons from 4:30 to 6:00 pm. Open to the Caltech community without charge. Feel free to arrive late and leave early if your schedule is tight.

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WHAT GOES ON

Dinner & Dance

Join us for a special Shabbat. Catered dinner followed by a brief service and Israeli dancing with folk dance teacher Donna Milton. When? Next Friday March 7 at 6:30 pm in Winnett Lounge. Cost for the evening is only \$4, so come and bring your friends. We need all RSVP's by Wednesday, March 5, so don't forget to call Myra at x6163 or (213) 208-4427 to let us know you are coming. Sponsored by Caltech & CSLA Hillels.

Spend Time Conserving

The Student Conservation Association is looking for students willing to serve as expenses-paid (no real salary) volunteers for various projects in National Parks, Wilderness Areas, and Wildlife Refuges. The work ranges widely, and includes working with conservation professionals working on wildlife surveys, natural history interpretation, biological and archaeological research. Volunteers who are accepted into the programs will receive a travel grant for round-trip transportation to their program area and a stipend to help offset food and living expenses, as well as free housing at the work location.

For further information, contact the Student Conservation Association, Inc., P. O. Box 550 Charlestown, New Hampshire 03603. Those interested in summer positions should contact them immediately, at (603) 826-5206.

Sunday Not Sports Day

In a startling announcement, Master of Student Houses Chris Brennen stated that Sports Day, originally scheduled for this Sunday, March 2, is now postponed until May 10. Speculations on the reason for the postponement range from new long-range weather and/or earthquake predictions to a very early Ditch Day. In either case, you now have two more months to shape up, so get to it.

SSSSP Needs You

The Summer Secondary School Science Project will be needing tutors and counselors this summer, running from Monday, June 23 through Thursday, August 7, 1986. Those interested must wish to teach and work with motivated high school youth and/or supervise them in the north undergraduate houses for the seven weeks of the program (especially during the evenings). As of this writing, 3 tutors each are needed for Biology, Chemistry, Physics/Trig, and Physics/Calculus programs, as well as 12 to 15 counselors. Contact Lee F. Browne, who forgot to give us his extension, for further details.

Bridge Club

Yes! The Bridge Club is having a club championship on Monday, March 3rd at 7:00 pm in the Red Door Cafe. Lots of duplicate bridge. Everybody welcome! Earn lots of Master Points and have lots of fun! Questions: call Jeffrey (x4543).

Career Counseling

A career counseling program sponsored by the Gnome Club and the Alumni Association on Thursday, March 6 from 7:30 to 9:00 pm at the Red Door Cafe. Topic: Careers in Computer Science and EE. Undergrads and grad students are welcome. Refreshments will be served.

Women's H2O Polo

...will have an organizational meeting followed by a short practice on Monday, March 3. Meet at Clint Dodd's office at 4:00.

Delicious, Delicious!

These are next week's delicious dinner entrees!

Monday: Barbequed Ribs, Chicken Marakesh.

Tuesday: Cashew Chicken, Loin Lamb Chops.

Wednesday: Pizza, Broccoli Beef.

Thursday: Top Sirloin Steak, Lobster.

Friday: Beef Burgoyne, Spare Ribs.

Y Not Volunteer

Student volunteers, undergraduates and graduates are needed to help produce the Caltech Y's second-term Decompression. Decompression, those elevating moments of that otherwise depressing finals week, will take place on the evenings of Saturday and Sunday, March 15 and 16.

From 8 o'clock until midnight The Y will serve up cassette movies, rock videos, chili, milk and punch, fresh fruit, sugar-fixes, cream cheese, bagels and bedlam. Volunteers are needed to help with the preparation and serving of the food and with cleaning up. It's not only fun to do, you'll sleep better.

You may sign up in the Y office by climbing the 24 steps on the north end of Winnett.

Going for Baroque

As part of the Occidental College Artist Series, the Philharmonia Baroque Orchestra will perform tonight, February 28 at 8:15 pm in Thorne Hall at Oxy. Tickets are \$8.00, \$6.00 for students and senior citizens. For more information call Thorne Hall Box Office, (213) 259-2737.

Hands On

The monthly meeting of the OKOK will be held March 11, 1986 in Winnett Lounge. This meeting is open to all microcomputer users, which includes users of Osborne, KayPro and other CP/M or PC/MS-DOS computers.

A 1-hour hands-on tutorial begins at 6:30, upstairs in Clubroom 1. This month's hand-on topic will be 1986 Tax Reports, using SuperCalc. The general meeting begins at 8:00 in Winnett Lounge. This month's program is: Spectre Tech with desktop utilities, *Presto! Twist & Shout*.

Everyone is welcome to attend. Bring your computer and participate actively, or just listen. For more information, call OKOK president Lionel Soracco, (818) 794-3243, or Jim Holmes, (213) 650-5326.

Stone On Uranus

The next Earnest C. Watson lecture in Beckman Auditorium will be Dr. Edward Stone discussing the Voyager flyby of Uranus. Besides coordinating the Voyager science teams, Dr. Stone is the chairman of Caltech's Division of Physics, Mathematics and Astronomy.

In its encounter with Uranus in January, the Voyager spacecraft radioed back volumes of data about the planet, its moons, its rings, and its magnetic field. In his talk, Dr. Stone will discuss the resulting discoveries about the most distant solar system object yet visited by a spacecraft.

Great Peace March

Tomorrow, March 1, at 12 noon, celebrities and real people alike will begin gathering at the L.A. Coliseum, where send-off speeches will speed them on their way on the first five miles of the Great Peace March. These first five miles will lead to L.A. City Hall and a live concert featuring all sorts of people, including Mr. Mister, Melissa Manchester, Holly Near, Gravity and others. This march (and concert) will be the start of a cross-country trek, carrying a torch lit from the eternal flame of the Hiroshima Torch. This torch will be hand-carried across the United States to Washington D.C. in an attempt to gather support for nuclear disarmament.

St. Patrick's Minus 10

The Master's Office announces an early St. Patrick's Day Celebration (10 days early to be precise) on March 7 from 5:30 to 7:00 pm on the Olive Walk. Irish bank, Limberjack Cloggers, elephant ride, cotton candy! Continental Food Service will serve a special dinner; free to holders of board contracts, nominal charge to others. Everyone is welcome to join in the fun.

Y Meets Y

Techers who are interested in cut-rate use of the facilities of Pasadena's downtown YMCA are invited to let it be known at The Caltech Y. The Caltech Y and the YMCA have begun discussions of group rates for student use of such facilities as squash and racquet ball courts, the indoor swimming pool and an assortment of classes. The YMCA has even suggested a barter system whereby students would gain free admission in exchange for programming assistance with the YMCA's recently-installed computer system.

To add flesh and blood to these up-to-now theoretical conversations, please supply your name and particular interests on The Caltech Y's sign-up sheets. The Metropolitan YMCA is located on Marengo just west of the Pasadena City Hall (just north of the Plaza Pasadena shopping mall).

A Fine Five

Five Caltech faculty members have received awards for teaching excellence from ASCIT. Selections were made on the basis of student-body surveys which evaluated each professor's clarity, enthusiasm, command of the subject, rapport with the class, and interest in the students as individuals. The winners are (the envelope please):

Yaser S. Abu-Mostafa, assistant professor of EE and CS, for the course "Information and Complexity."

Glen R. Cass, associate professor of environmental engineering, for the course "Engineering Problems of Man's Environment."

Eugene W. Cowan, professor of physics, for the course "Classical Electromagnetism."

Fred E. C. Culick, professor of applied physics and jet propulsion, for the course "Vehicle Performance and Dynamics."

Jerome Pine, professor of physics, for the course "Introduction to Biophysics of the Nervous System."

Jesus of Nazareth

The second part of Franco Zeffirelli's inspiring TV special *Jesus of Nazareth* can be viewed in Winnett Lounge tonight, Friday the 28th, at 7:30 pm. The third and final 2-hour segment will be shown next Wednesday (March 5), also at 7:30 pm, in the Y Lounge. If you haven't seen it, don't miss it—it's truly a special experience. If you have, you'll agree it's worth seeing again and again and is a great lead-up to Holy Week and Easter. For non-Christians it's one of the best ways you can learn of Christians' most basic belief. Sponsored by the Newman Center. Admission is free.

More On Page 11...

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