

photo by Matthias Blume

Dr. Bruce Kahl— institute psychotherapist, "How does this make you feel?"

## Dr. Bruce Kahl

# Screw Loose? See Dr. Bruce

by Matthias Blume

"PSYCHIATRIC EMERGENCY: Call Dr. Bruce Kahl (pronounced Kale)... Tell the operator you are a Caltech student." So reads the sign on the front door of the Young Health Center.

Dr. Kahl is one of six people working for the counseling service. The others are Dr. Miriam Abrams, Roy Barsness, Dr. Jeanette Butler, Barbara Ellenhorn, and Dr. Jacqueline Miles. Together they work 140 hours and counsel about 50 students per week. In any year they will talk to ten percent of Caltech graduates and undergraduates.

This percentage is less than average for a college counseling service. Dr. Kahl has several hypotheses to explain this. The principal one is that many Caltech students think they are "extremely rational." "They are unwilling to accept the possibility that their emotions are confusing — that they

themselves can't figure out what their emotions are about. They are reluctant to admit... that they are not able to come to a reasonable explanation of their own feelings. Putting it another way, they're too proud to admit that they're confused." He does also think that perhaps Caltech students have less spare time than students elsewhere, and are therefore less willing to try something new like talking to a psychiatrist.

"Other, general, phenomena apply. For example, some people associate psychological help with being crazy. They don't want to run the risk of finding out that they're crazy." People are afraid of being treated as though they are sick. The therapists are careful not to treat their patients (some therapists call them clients) this way. "The setting is one of interaction, of two people sitting together and interacting.... The psychotherapist listens and tries to understand the difficulty in the context of that person's life and general environment, and tries to give that person some understanding that they previously did not have of their feelings, their behavior, their involvements with other people."

Dr. Kahl is planning some innovations for the counseling service. One is programming a computer at the health center to let students interact with therapists through the campus computer network. The system would work in two ways. "One would be an open-ended sort of thing. Almost — I

hate to say it — in a 'Dear Abby' kind of arrangement. But definitely not doing therapy via computer, because I don't feel that you can do real therapy via computer. But it would be a way to get information and for us to make comments which might help students to come across the street.... The other way would be pre-programmed sets of questions and answers — structured programs which people could walk through, that would offer different alternatives, tailored to their own particular personalities. These would deal with issues like depression, stress, study habit difficulties, etc. The main reason for having that system is to reach students who are not currently getting the help that they may need. One of my big hopes is to reach that portion of the student population who are having emotional difficulties and who are reluctant to come across the street to seek help. It would give them a chance to ask questions in private which are really personal and difficult for them, and to get private responses from us through the convenience of the computer."

Kahl is considering writing a survey for students to fill out at registration next term. "I'd like to find out mainly what the students know of the counseling service, and what kind of utilization there has been, and attitudes they have about the counseling service." He also might write a column in the *Tech*, reminiscent of "The Body Shop" columns of two years ago.

# Sports Day Slated

by Sam Wang, C. E. Brennen

Caltech's Homecoming Sports Day is an annual event which offers students a unique opportunity to participate in friendly competition with faculty, staff, and alumni. This year's Sports Day will be next Sunday, February 16, and all are welcome to come and join in a day of social sporting activities. The central event of the day will be a buffet lunch at noon on the field north of the gymnasium. Entertainment for the luncheon will be provided by the Caltech Wind Ensemble.

Both participants and spectators are needed for the activities and the lunch is free, so come on out.

The day will begin with soccer, volleyball, and tennis from 10:30 until noon. Immediately following lunch will be a special challenge softball match featuring faculty and alumni versus students. The afternoon (1:30 to 4:00 p.m.) will feature basketball, softball, inner-tube water polo and ultimate frisbee.

As with the morning sports,

everyone who wishes will be invited to participate; in other words, come and go as you wish. In the afternoon we are also planning a tug-of-war contest featuring eight-person teams and polyathlon relay (running, cycling, rafting, etc.) featuring three person teams. If you wish to enter a team, you can either inform the Master's Office in advance or the information desk at the front of the gymnasium on the day.

In the unfortunate event of rain, we intend to postpone the Day until March 2. Should this occur, information will be disseminated on the Friday before.

## Watson Lecture

# Abu-Mostafa on Randomness

by Marc Reissig

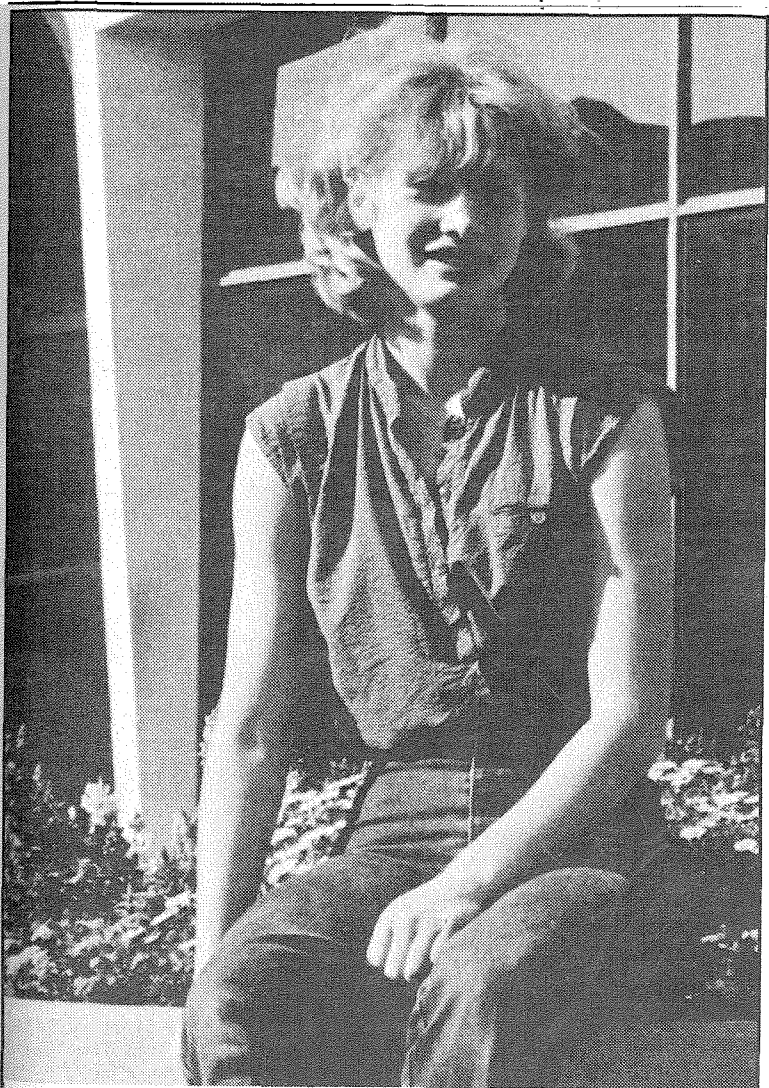
Randomness. The very word brings terror to the heart of many Techers; some upperclassmen consider it taboo. But Professor Yaser Abu-Mostafa's Watson Lecture Wednesday night, entitled "When in Doubt, Flip a Coin," created a humorous, not terrifying, effect. Professor Abu-Mostafa's presentation was a delight to his audience; his wry insights into a topic commonly take for granted often had people rolling in the aisles.

But besides generating laughter, Professor Abu-Mostafa offered many insights into the "precise" nature of randomness. He began by claiming that randomness is merely ignorance; after all, if we knew enough about the mass, air resistance, and trajectory of a flipped coin, we could predict exactly which way it would land. Another example he offered was the randomness involved in deciding "she loves me"/"she loves me not" by picking leaves off a flower. The only randomness involved there is not knowing if there are an odd or even number of leaves. A true scientist, he added, would shoot a photon at a paper plate divided into two regions — the top one being marked "she loves me" and the bottom one "she loves me not." That would be truly random, except for a scientist, in which case the answer would almost definitely be "she loves me not!"

Furthermore, Professor Abu-Mostafa claimed that it is impossible to prove that something is random. As evidence of the difficulties involved in this type of situation, he asked the following question: "What is the smallest number that cannot be described in English with less than 100 letters?" Whatever the answer is (forty-nine trillion, four hundred thirty-six billion, etc.), it isn't. The description "the smallest number that cannot be described in English with less than 100 letters," which adequately describes that particular number, is only 74 letters long itself. This is the type of

paradox involved in randomness. Furthermore, the more random a set of data is, the more regular the statistics they provide become.

The moral of Professor Abu-Mostafa's lecture seems to be: next time you get a two of clubs, a five and eight of diamonds, a king of hearts, and a four of spades instead of a royal flush in poker, don't feel bad; the chance of getting that particular combination was just as small as the chance of getting a royal flush. It's just the chance of getting something useless that's so high. . . .



Clea Bures— our new and fearless leader.

# New ASCIT Hero

photo by Kent Noble

## ASCIT ELECTIONS MONDAY

See statements on page 3.



photo by Kent Noble

Dr. Yaser Abu-Mostafa uses the "R" word.

## OPINION

## Letter to the Editor

To the Editors:

I would like to comment on Ted George's article about the Moral Sub committee for the upcoming Student-Faculty Conference (or Faculty-Student, depending on who you are). It was a good article; my only complaint is with the editors of this fine paper. If I didn't know better I'd suspect Peter and Paul of being racist.

In the last paragraph where Ted lists the names of the members of the sub committee, two members, Rob Fätland and Bibi Jentoft-Nilsen (blond, blue-eyed Scandinavian types) have little foreign marks of punctuation on their

names. Rob has two stupid little dots over the "a" in Fätland and Bibi has this dumb line between her TWO last names.

My last name is Gómez (Note: the bold mark of distinction over the "o" in Gómez). Now Peter and Paul, you both know it exists. I have scolded you before. I'm of Czech, German, Dutch, English, Portuguese, Apache, Spanish, Mexican ancestry.

I notice that both of our "esteemed" editors are blond and blue-eyed. When your term as editors is up I'll be glad to be rid of these neo-Nazis, forcing their twisted moralities on those of us

who aren't lucky enough to be pure bred. I would hope that Peter and Paul would prove me wrong by putting the noble accent in the appropriate place in my last name. It's not two stupid dots or a dumb line, but a distinguished mark. I expect to be treated with the correct amount of respect.

Thanx,

— Steve Gómez  
255 S. Hill

(the house with no curtains)

P.S. We luvs youse guyz, enywayz.

[Actually, Steve, we were misinformed by Ted George on two counts. The article he turned in (we have photocopies, so don't try to

deny it, Ted!) named you by name, but without accent. Our typesetter, who is neither blond nor blue-eyed, and will match you for multi-continental ancestry any day, faithfully reproduced Ted's version of your name. But then, Ted also told us that the committee was investigating student morale, which is much less interesting than your version. Anyway, for those of you who wish to correct your copies of last week's issue, here is an accented "o" to paste over the accentless one: ó. Is that respectful enough?—Eds.]



## IHC and ASCIT Highlights

## IHC Highlights

by John Beck

Attention house secretaries: The MOSH needs room lists to know who's living where in each house.

**Changing Locks:** People showing up for the beginning of summers or fall are often unable to enter their rooms with the keys which the housing office provides. This problem has arisen from people changing their locks around without notifying the housing office. This is a serious dilemma which needs to be dealt with before the advent of summer. If you have any recommendations, please tell your house presidents.

The South House Basement is going to be cleaned up and rendered useful as part of the plan to rehabilitate the south housing complex. If you have any ideas about what they should be used for, please inform your house president.

## Varsity Jackets

The varsity letter jackets will be late. They will probably arrive in about 3 weeks. Because of the unexpectedly large number of jackets ordered this year, the cost has run \$500 over its original budget of \$1800. ASCIT has sufficient funds to cover it, though.

## little t Bill

The little t had an unexpected bill of \$100 which sent it \$50 over budget. ASCIT can still cover it easily.

## Phone Abuses

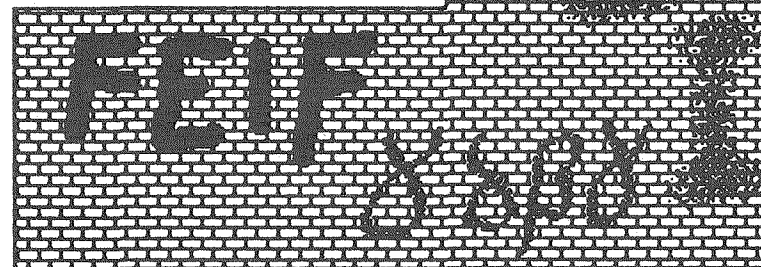
There has been an abuse of long-distance phone-calling privileges amounting to about \$200 per term. The Deans are going to talk to Physical Plant about the possibilities of a new system.

## Proposed By-Law Changes

There is a long list of proposed modifications to the ASCIT By-Laws, Article XIV (Publications). It will be voted on next Friday, February 14.

## Staff Award Proposal

Joy Watanabe has proposed a staff award to recognize individuals for their services for and support of the undergraduates. All non-student and non-faculty members of the Caltech community will be eligible, and any member of the community can nominate someone. The winners of the award (two per year) will be chosen by the BOD.



## The Caltech Y Fly-by

Friday... February 7

Big Fun at the Noon Concert! Lunchtime on the Quad.

Saturday... February 8

The first Whale Watching Trip. If you made it this time, go. If you signed up but didn't get picked, you're first in line for the second trip, March 8. Check with the Y to be sure you're going. Leaving Tech at 12 NOON.

Monday... February 10

"The Social Isolation of the Scientist." Presentation by U.C. Berkeley post-doc Ronald Kahn, who recently wrote about the subject for *The New York Times Sunday Magazine*. In Winnett Lounge at 12 NOON. Bring a lunch.

Friday... February 14

There will be an information table from Student Travel International for anyone interested in travelling to Europe. From 11-2, downstairs by the Noon Concert.

Saturday... February 15

Sailing Trip! With Skipper Don Skelton. All day, \$9. Leaving Caltech around 7:30 AM. Sign up in the Y.

"UFO Verdict: Examining the Evidence." Philip Klass, senior editor, *Aviation Week and Space Technology*. In Baxter, 2 PM. Co-sponsored by the Y and the Southern California Skeptics.

Sunday... February 16

Sports Day! From 10-4 on the athletic field.

Movies! Movies! Movies!

The Y has discount passes to both the Pacific and Mann Theatres. \$3 each.

Any questions, comments, or ideas?  
Come see us in the Y office or call x6163

## Tonight's Movie

by Mark Montague

The description that fits *Moonraker* best in my mind is "just another Roger Moore bond movie." It is certainly worth sitting through once for some corny 007 action scenes and the typical Moore humor, but the plot is stale (evil

multi-zillionaire plots to destroy the world...) and the "action scenes" aren't too unique either. Jaws is back from *The Spy Who Loved Me*, as a foolish, brawny assassin with tough teeth. Nifty. I'll spend my dollar for this one, but personally, I want Sean Connery back.

THE ASCIT MOVIE  
TONIGHT at 7:30 and 10:00

# Moonraker

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Jan. 31 Solution

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# Research and Teaching ASCIT ELECTIONS

by Tom Workman

The Undergraduate Research Committee for the upcoming Student-Faculty Conference (Feb. 22) is looking into ways to improve research opportunities for students both on and off campus. Current topics of discussion include the need for better communication of job opportunities to students, informing freshmen and sophomores about strategies for finding research work on campus, possible improvements of the SURF program, and utilizing Caltech alumni for connections with industry, among others.

One problem appears to be that many students expect research positions to be handed to them. Also, many professors do not make their research openings widely publicized (especially to those outside their option). It seems that some additional motivation on both sides is needed to make the most of our on-campus research opportunities. The Career Development Center has many resources for finding jobs in industry, but its services are underused by students. This may be because students are unaware of this resource or they are too lazy to go in.

The committee chairman is Tom Workman (578-9219 or mail code 1-59). Any comments or suggestions will be gratefully accepted.

by Khanh Nguyen and Nick Kledzik

The Teaching Quality Committee has been working to discover ways of improving the teaching quality of the faculty and TAs.

We have talked to the administration and department representatives regarding how and why professors and TAs are selected. We have also completed a survey of the undergraduates on the teaching quality here.

From the information collected so far, a few points are apparent: —In the Science and Engineering departments, faculty members are judged on their research abilities. Teaching ability is often overlooked.

—Many TAs are new to English or lack the communication skills necessary to be effective teachers.

—Many graduate TAs do not feel they are here to teach. As a result, they often appear to students to be unconcerned.

—Many professors do not get any feedback from their students on how well they are teaching.

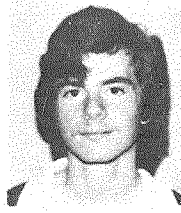
Some things that the committee are now studying include:

—Methods of selecting, screening, and training TAs.

—A feedback system at midterms, when students are still interested. It would be tailored to inform the instructor on how the course is progressing.

—An ombudsman system for all classes.

California Tech Editor



Peter Alfke

The *Tech* has, in the last year or two, evolved into a good, solid paper; instead of wild oscillation, the trend in administrations has been to consolidation and improvement. As this year's candidate for *Tech* editor, I hope to continue the process. This will not be an unfriendly takeover; rather, with the support of the present and past administrations I hope to put out *Techs* filled with the kind of student and campus news, entertainment and sports coverage that you, the discerning reader, have come to expect. Which is not to say that the paper will remain static; there is still room for improvement, and I will consider input from readers in deciding what changes to make.

As a past features editor, and as a senior going on super-senior, I have the knowledge and experience to carry out these plans. I hope you'll give me your vote!

(Besides, "No" still can't type!)

Mike McDonald  
Mark Montague  
Randy Pollock  
see photos on page 8

A unique aspect of the California *Tech* is its acceptance of material from all members of the Caltech community. This campus-wide participation in the newspaper is one of the greatest assets of a small school. As *Tech* editors, we will continue to encourage contributions by all students. The primary responsibility of editors is to ensure that the newspaper

represents the entire Caltech community. Likewise, the news presented should be of interest to the entire student body.

Specifically, we will expand the entertainment section to include advance announcements of events such as concerts and shows. We also plan to expand coverage of interhouse and house events including social and athletic activities which would interest the entire campus. So, a write-in vote for Mike McDonald, Mark Montague and Randy Pollock is a vote to make the *Tech* your newspaper.

## The Inside World

**Fleming:** Congratulations to the Big Red Track Team for a job well done.

Fleming GSC Basketball rolls on, in the "Classic" sense, anyway. Look out Interhouse. . . .

This weekend, it's road "ralley." Let's hope that Pasadena's Finest take that particular day off.

Randy "the Float" Pollock may actually have a dry dinner sooner or later. It's almost too good to be true. . . .

Here's hoping that Midterms are painless for everyone, especially the Frosh. Snake Frosh, Finals are coming.

Humbly submitted,

—Al Fansome

**Lloyd:** Congratulations to the new Excomm members:

Chris Nolle, President

Jean Tang, Vice President

Jim Roberts, Secretary

Ken Chaney, Treasurer

Cathy Chang, Keith Owens, Brian Patterson, Social Committee

John Haba, Rob Jarecki, Terrence Yeh, Athletic Managers

Khanh Nguyen, Wine Cheese and Cracker

Phillip Lin, Jeff Tseng, Librarian

Bill Woody, Off-Campus Representative.

Track and field came and went, bringing success and lots of fun. Don't forget Sports Day, on the sixteenth, in the same vein.

—J.P.

**Page:** Fellow Page members and distinguished guests, we proudly present the new Page House president: Vincent Vito Ferrante. Under his guidance, Page House will surely prosper. Caltech will never be the same. Konstantin Othmer, our new Vice-President, is John Lade's former roommate.

Yet, despite these newcomers to the Page House government, there remains a pillar of stability in the hierarchy, with John Beck moving down from treasurer to secretary. Our new treasurer, John Scott, assures Syndicate control of the Excomm. Unfortunately, the election results have caused a stampede . . . a mass exodus of the red-shirted herd.

Everyone is wondering where the maid is. Did Mickey really elope with Linda?

Dear Ed,

You lose round one to Vito. Interhouse track is ours. Formally,

—Cynthia Katherine

**Ruddock:** In the beginning there was Ed; then there was Vito. Now, by popular demand, Joe Fierro for President! That's right, the Budd is having elections this V-day. Be there for pizza, beer, and of course, to vote. . . . To all of you Wu are still clueless, even Walter couldn't pass the Chem1b midterm, although Dudley tried. . . . Nik had a great B-day as two beautiful women showed up at 5:30 am and supposedly took him out for breakfast. Nik says, "Why do people take such joy in waking other people up?" . . . 361542 and 7? after F-golf and the Roommate Game. Bepo and Taney sure knew each other better than a certain married couple in Alley 2. Hmmm. . . . Raj and other Rudds went to Ice House, but where was Betsy? Chocolate Tasting Saturday night. . . . "Do you have change for Abd-Allah?"

—Butch and SF

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## Isolation

by Wesley Boudville

Monday, February 10, the Caltech Y will present Dr. Ronald Kahn, an astrophysicist at the University of California, Berkeley. He will be speaking in Winnett lounge and the program will begin at lunch.

Dr. Kahn will speak on the isolation that he feels scientists face in a modern, technological society. He feels that the technical expertise of scientists creates a gulf of communication between them and the rest of society. That may leave scientists feeling cut off from society.

Dr. Kahn was an undergraduate at Princeton and a graduate at Harvard.

All are welcome to attend this meeting and the discussion that will follow.

# ASCIT ELECTIONS

## Vice-President BOC Chairman



NO PHOTO  
AVAILABLE  
Tim Allen

The primary duty of the ASCIT Vice President is to act as chairman of the Board of Control. With two years of experience on the Board, spanning two administrations, I am qualified to serve as chairman. But that's not enough.

I will make visible changes in the way the Board works. Many people complain that the Board is too clandestine, coming uncomfortably close to a secret society. I agree. We all understand the need for secrecy; subjecting violators to public ridicule is to be avoided above all. But since all decisions are made in secret, no one can know if the Board is being fair. I propose a solution: give the defendant the option of secrecy without ramming it down his throat. If the accused so chooses, the Board can be as tight-lipped as ever. If, on the other hand, the defendant feels he has a legitimate grievance, he will be free to discuss his case with the board publicly, either in the *Tech* or in an open meeting. Through such a mechanism, the campus could make certain that the Board stays on the level. Such a forum would also stimulate interest and awareness in the honor system, as well as remove much of the mystery surrounding Board proceedings. I will work to change the bylaws to reflect this policy.

Any fool can spout platitudes about the importance of the honor system, but an understanding of the importance of the job does not necessarily make a good chairman. A good chairman can take the duties seriously and still deal casually with people. He must be able to see a case through the eyes of all concerned if he is to mediate Board discussions effectively. He must take a firm, conservative stance on issues while dealing compassionately with individuals. If you agree, please vote for me on Monday. Thank you.



## Vineer Bhansali

No, I'm not going to try to convince you of how great a person I am...

As ASCIT Vice-President, the Chairman of the BOC, and the guardian of the Honor Code, I'll get the following done:

a) *Relinquish* the BOC of the power to convict academic violators... very painfully, I have to admit that with tough competition (relying mainly on grades), we have to give this heavy responsibility to more experienced people... a faculty committee (with a couple of student representatives) maybe. This will happen sooner or later anyway.

b) *Reduce* the number of all other BOC representatives, etc., etc., etc.

c) *Ensure* that cheating be treated collectively as a malady,

and not something that can be broken up into neat little mouthfuls for the BOC or the GRB. With the number of courses that grads and undergrads take together, they are equally responsible for any violations.

d) *Encourage* those who have been "BOC'ed" to cry "no fair!"

I'd like to add—*increase* participation, more in-depth analyses... YAK, YAK... YAK, but at the moment I don't know how to get these things done. (Any suggestions?)

So if you have ever felt the same way, and have slowly slid down into that deep pit of apathy (because of too many heated letters in the *Tech* but no change), this is your chance to climb out, and elect me (or any that you deem better), without superficial allegiance to House or Alley.



## Pamela Feldman

I have served on the Board of Control for the last two years, first as Ruddock House representative, and then as Secretary. As representative, a voting member, I tried to use my vote with both fairness and compassion. As Secretary, a non-voting member of the Board, my responsibilities were to conduct the preliminary investigations with the Chairman, to take minutes of the hearings, and to participate in discussions of the cases. My first year exposed me to the decision-making side of the Board, and my second year exposed me to its administrative and investigative aspects. I feel that I have gained the experience necessary to help the Board run fairly and efficiently. Although this is the primary function of the Chairman, I would also like to give students and faculty a greater understanding of the way the Board works and the nature of the cases we hear. For example, many professors give unclear homework policies or none at all, and they are often unaware of the effects that this can have. I do not believe that there is a substantial amount of cheating at Caltech, but there is some; and so the job of the Chairman is two-fold: to try to reduce the number of Honor System violations committed (for example, by preventing misunderstandings between students, faculty and administrators) and to ensure that those Honor System violations that do occur are handled justly. These are both important causes, and I would appreciate the chance to devote my time and energy to them.

## IHC Chairman



## John Beck

A good IHC Chairman must have three abilities: to know about and inform the students of IHC activities, to get along well with the house presidents, MOSH, and the Deans, and to remain impartial during disputes. I believe that I fit these requirements best among the candidates.

I have been the IHC reporter for the *California Tech* since first term, and so I have written many articles about the IHC and the problems it deals with. Through the *Tech* I have tried to keep the campus aware of them and will continue to do so.

I am very well acquainted with the presidents who have been elected so far, and I get along exceptionally well with all of them. As a result of trying to work out campus problems (for example, the AMa 95 grading controversy), I have developed an excellent working relationship with Dr. Brennen and the Deans (Lorden and Noda).

I have learned the necessary qualities of leadership, impartiality, and keeping an even temper through serving Page House as Athletic Manager and Treasurer, the Cross-Country team as co-Captain, and as Chairman of the Educational Computing Subcommittee of the Faculty-Student Conference.

I disagree with the past policy of holding some IHC meetings in private. The IHC is a legislative body, not judicial like the BOC. Matters requiring privacy should be referred to the BOC. The IHC concerns everyone, and so everyone has a right to participate.

Because of my attitude, my past experience, and my ability to get along with other people I believe I am the strongest candidate for the job.



## Randy Brown

I, as IHC Chairman, must be a level-headed and impartial mediator. The chairman *can't* possibly be impartial if he holds a major office in his own house. I have been active in my house in past years (which has been a good experience), but I do not currently

hold a house office.

While serving on the house Social Team and Executive Committee (as sophomore rep.), I learned two important things:

1) How to work with a group in decision-making matters.

2) The importance of a chairman for structure and efficiency in such groups.

For the past two years, I have been a social member of more than one house. I participate in an abundance of campus activities (from varsity athletics to Caltech musical groups to the Athenaeum) which make me visible and accessible to faculty and members of all houses.



## Castor Fu

When reading these campaign statements you are probably asking yourself, "Is there any reason I should vote for this person?" Most of the candidates will claim they deserve your vote because of past involvement in student government, a commitment to work hard as IHC Chairman, and their personal character. Although I have been actively involved in trying to improve the quality of life here through activities like the Faculty-Student Conference, and the Student Curricular Advisory Committee, I do not ask for your vote on that basis. I do not ask you to vote for me because I will work hard as IHC Chairman, although I will certainly try to do so.

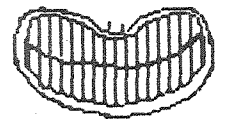
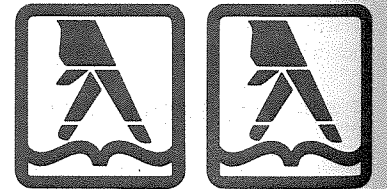
During the past few months I have spent time on the question of the proposed student center. In my opinion, students could use a student center where they could casually socialize outside of the House System structure, perhaps grab a bite to eat, practice musical instruments, etc. If elected, I would spend time trying to present the Administration with a plan for a student center which would best satisfy the needs of the students, as well as the other members of the Caltech community. However, this is a topic that would certainly be addressed by whoever is elected.

So, you ask yourself, "Why on earth should I vote for this guy?" The answer is simple. If elected,

I will re-evaluate that institution of ours: Rotation. In the time that I have been here, I have seen many people express concern about Rotation. My freshman year, Bezhad Sadeghi distributed a leaflet describing the rotation process. People discussed the various merits and flaws of the system. However, most people decided that either no changes were necessary, or that there was not enough support to make any changes. This year, we saw another problem come up on Rotation in the form of people discussing Rotation strategy with freshmen. This introduced the problem of the liability of the houses for the actions of their members, as well as the question of need for restrictions on discussions with freshmen. The question I ask is, what exactly are we trying to accomplish with Rotation, and what are we willing to sacrifice to achieve it? The answers may require drastic changes in the way we think about the House system.

My election would be a mandate from the student body to consider change. Thus I ask you to think carefully about what you want. If you like the status quo, then vote for someone else. But if you are willing to consider changing the way we live at Caltech, then consider voting for Castor Fu.

STATEMENTS  
continued on  
page 5



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# ASCIT ELECTIONS



**Steve Gómez**

My fellow Americans, Canadians, Indians, Pakistanis, Saudis, Greeks, Frenchmen, Koreans, Thais, Paraguayans, Scotsmen, Yugoslavs, West Germans, Nigerians, Spaniards, Syrians, Filipinos, Chinese (Hong Kong and Taiwan), those of you from Singapore, Brunei, the West Indies and New York, I'm Steve Gómez and I'm running for IHC Chairman. (pant, pant, pant.)

If elected I promise to move all the Flemings into Page House and turn Fleming House into a parking lot. I promise to put all of Dabney House into a mental hospital for homosexual speed freaks. I promise to force the Scurves to shower at least every other day. I promise to put fresh squid in every shower in Blacker House. I promise to lock all the Lloydies in their rooms and turn about thirty ladies of the evening loose in the house to make men out of them. (In the interest of sexual equality I'll get guys for the women in Lloyd,

but since there are far fewer women than men I'll do requests for the women. Tom Selleck? Richard Gere? Let me know. I'll see what I can do.) I promise to put extra showers in Page so they and the Flemings won't have to carry each other as far. Finally, I promise... Oh, yeah! Ruddock. I forgot about them. I'll have to think about that one.

My qualifications include being Asst. House Mexican in Dabney House, whose duties were to keep palm seeds off the courtyard and fix all the windows in Fleming we broke during Orange Wars (a job of tact and diplomacy more than skill). I'm also on the Morale Subcommittee, for the upcoming Student-Faculty Conference, where I'm the resident authority on burn-out (though for the life of me I can't figure out why). I've also been to many IHC meetings and seen how good decisions are made and I've seen them screw up big time.

Some people will accuse me of not taking the job seriously. I take the job of IHC Chairman seriously. It's this statement of purpose that I can't take seriously. How can anyone take seriously something their Frosh Mugbook photo appears on top of? Mine was taken about five hours after I got stitches at the Huntington. I was still

smashed when it was taken. What can I say that hasn't already been said by the last five thousand people who've run for IHC Chairman?

I believe a sense of humor is necessary for the job because if everything is taken seriously, those that are aren't given enough attention because of all the energy wasted on trivial problems.

The IHC Chairman is basically a peacemaker. His or her (in my case—his) job is to keep things running smoothly at meetings and keep the House Presidents from killing each other. The other big duty is to run THE Rotation meeting in the fall. This is a chaotic time for those in positions of any kind of responsibility and I thrive on chaos. I believe that all things considered I'd do a bang-up job. If I get everyone equally pissed-off at me I'm doing it right.

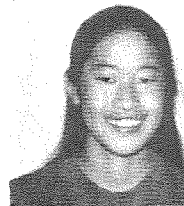


**Tom Nolan**

I suppose the form of this statement describes what I hope to offer the IHC as chairman, a different approach. In working with

Ted George on the present IHC and briefly with Richard Murray on the previous one. I have found that, other than clerical duties, the chairman's most important task is to find all of the reasonable solutions to a given problem. That is, from his neutral position, the chairman must find and suggest possible alternatives that may not occur to the presidents representing individual houses. Similarly, when discussing the merit of a given proposal he should mention its advantages and disadvantages regarding the whole campus. From there, it's up to the house presidents to decide. This year on the IHC I made some truly poor suggestions; but I believe that I also made several good ones, variations on which were finally agreed upon. As chairman I believe I will continue to make many good suggestions—and the bad ones will simply be laughed out of the meeting.

## ASCIT Secretary



**Carol Choy**

The main responsibility of the ASCIT Secretary is to take minutes at the BOD meetings as well as maintain records and communications of the BOD. I have experience in all of these capacities, having served as secretary of several clubs in high school. I am also secretary of the Upper Class Committee in Lloyd and feel that these jobs have given me the solid background necessary to do a good job as ASCIT Secretary. I would appreciate your vote in the elections on Monday. Thank you.



**Kathleen Hayashibara**

Although I did not win the election for President, I am still interested in representing your opinions by being a part of ASCIT. I chose to run for the office of secretary because it would allow me to be well informed and to inform you of the issues being discussed since it is the secretary's job to record the proceedings of the ASCIT BOD meetings. I believe that I am qualified for the job because I am a responsible, hard-working person who knows how to keep records organized. Furthermore, since I am familiar with a large fraction of the student body I can be a good representative of your opinions and needs. Finally, since I am very conscientious you can be assured that if I am elected I will attend the meetings and do my job to the best of my abilities.



**Junko Munakata**

ASCIT Secretary: the name says it all. Just like any other BOD position, this office requires a responsible, dedicated person. My qualifications range from two years as Drama Club secretary to vice president of NHS, and I now serve on the Student Curriculum Advisory Committee. This experience exemplifies my ability to lead as well as to work and communicate effectively with others. I am con-

fident in my ability to fulfill completely the obligations of the ASCIT Secretary, and I hope for your support in Monday's election.

## BOC Secretary



**Doug Roberts**

Hi there! My name is Doug Roberts, and I'm running for BOC Secretary. During the past year, I served on the Board of Control as a Rep-at-Large, and through my experiences on the Board, I have come to feel very strongly about the Honor System. I see the Honor System as probably the one thing that puts Caltech above ordinary universities and colleges, and the fact that I go to a school where a system such as the Honor System can work makes me proud to admit that I'm a Beaver. Also during the past year I saw how much time and hard work the BOC, especially the Chairman and Secretary, have to put in to insure that the Honor System remains an effective way of governing our life style. It is this work and effort that I will be more than willing to put in when elected to the office of BOC Secretary. The Honor System means a lot to me, and I would feel privileged if you were to elect me so that I could insure that the Honor System worked for you. Thank you.



**Tom Tucker**

No statement submitted.

## Directors-at-Large

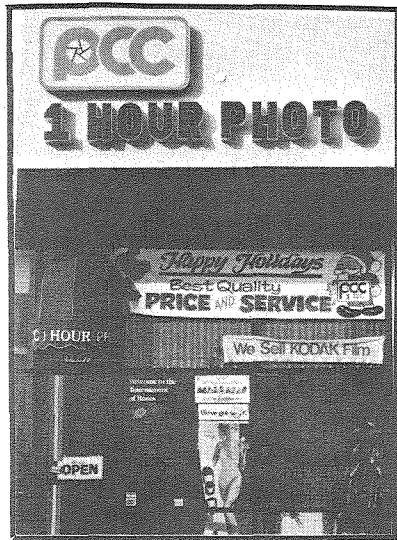


**Rob Fätland**

The ASCIT Van maintenance and distribution falls into the hands of the Upperclass Director-at-Large, and therein lies some of the heavy appeal of the job. I think that the van can and should be made more available to the majority of the students. The Director-at-Large is, however, more than a mere ignition key repository. Each year ASCIT disburses funds from a \$50,000 budget, which is a significant amount of work and time for all the members of the BOD. The Director-at-Large holds other specific responsibilities as well, such as coordinating Red Cross Blood Drives and getting the Undergrad Research Opportunities Handbook out. This last task strikes me as holding untapped potential as well as being a lot of fun. I believe there are yet professors who could be encouraged to hire us to do research. Anyway, ASCIT Director-at-Large is an involved and time-consuming office and I am enthusiastic about doing a good job for you.

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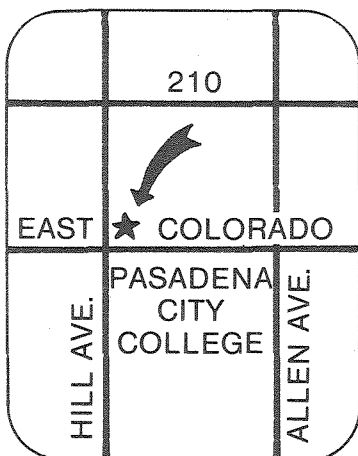
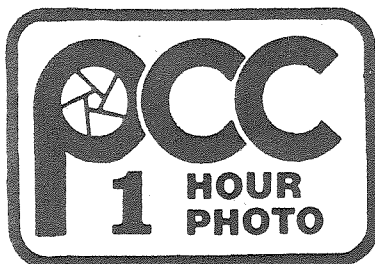


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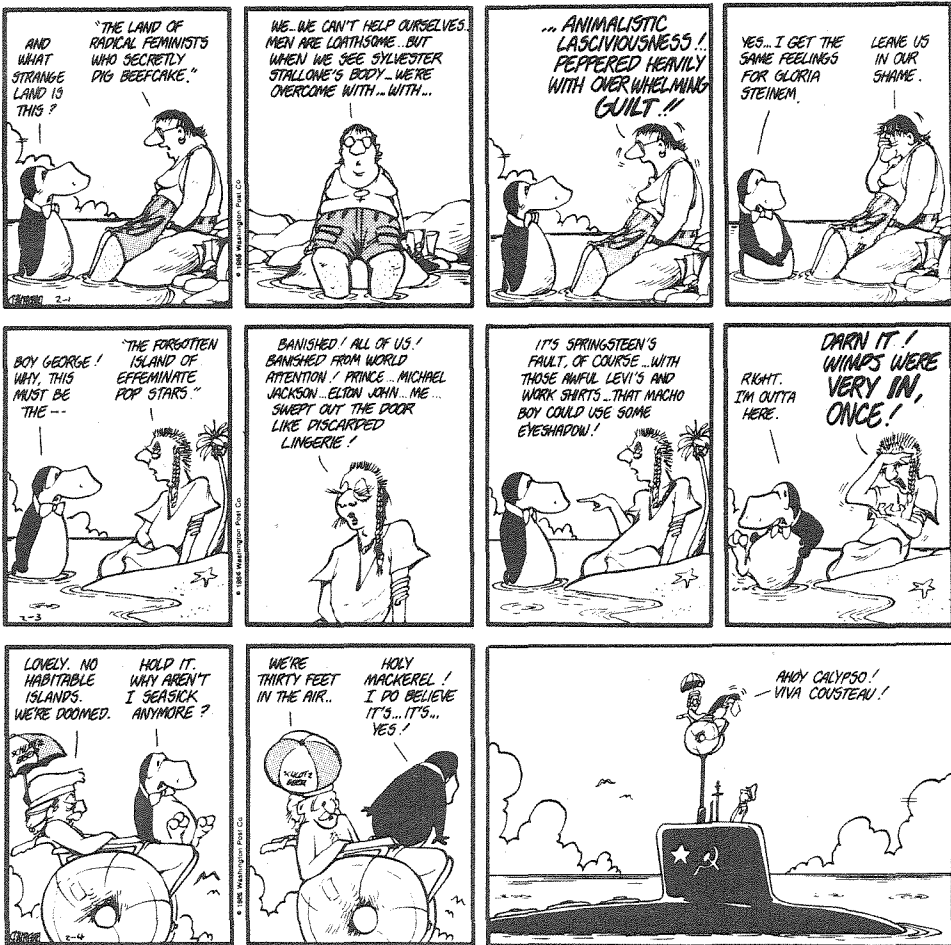
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Director-at-Large



Susan Gerhart and John Hart

We are running as a team for the office(s) of Directors-at-Large. We know we can work together well and accomplish a lot as a team, with each of us contributing his unique talents. We will make the ASCIT van more available to everyone. We will also seek out and publicize campus research opportunities available to undergrads. We would appreciate your support in the election, and we won't disappoint you.



Sam Naffziger

The office of Upperclass Director-at-Large, though not one of the main ASCIT offices, requires an individual who can and will put in the necessary time to do the job right. In addition, an important requirement for the Director is to be on-campus and easily accessible to other students for use of the ASCIT Van. I fulfill each of these requirements and will take the job seriously, so I'm looking forward to your support on Monday.



Eric Scharin

I am running for the office of Upperclass Director-at-Large. As Upperclass Director-at-Large, one is not merely responsible for the management of the ASCIT Van, but is more importantly responsible for capably representing the views of the student body through the Board of Directors. I have had a year's experience in working with

ASCIT and the administration in my capacity as Freshman Director-at-Large and feel that this experience will help me be a more competent member of the Board. I would appreciate your support in the upcoming election.

Freshmen Director-at-Large



Rachael Clark

The main thing the office of Freshman Director-at-Large will demand of its occupant is time. When choosing a candidate, it is important to choose not only someone with free time, but someone who will make time to do the job well.

The major duty of the Freshman Director-at-Large is to publish the information on SURF projects and summer jobs in research. As students at Caltech, we have the opportunity to work with people foremost in their field. Because I feel this opportunity is so important, I will do my best to fully inform you of summer jobs and research projects in which you might wish to participate. Also, because I hope to be doing a SURF project this summer, by next year I will be familiar with the system and able to more efficiently carry out my duties.

In short, I am enthusiastic about the job, and hope that with your vote you will give me the chance to do my best for you.



NO PHOTO AVAILABLE

Michael T. Fukuda

Dear Caltech students. If you haven't surmised by now, I am running for ASCIT Director at Large

on Monday. I think that this office is probably the one closest to the student community as a whole. Since DALs have no specific project or responsibilities, they must do a greater job at representing the student Populace as a whole. As an Eagle Scout, and a former high school leader, I believe that I would hold my own in almost any situation.

So even though I can promise you nothing save that I will do my best in this elected office, I urge you to cast your vote for Mike Fukuda on Monday. Thank you.



Bibi Jentoft-Nilsen

I am running for frosh director-at-large because I feel it would be a worthwhile and exciting job. I enjoy interacting with people and organizing things, and this job could give me a chance to do that and also to get to know the student body better in general.



John Hart

For statement, see column one of this page.



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# Text of Amendment to the ASCIT Bylaws

## ARTICLE XIV—PUBLICATIONS

SECTION 1. The official publications of this corporation are a newspaper, the *California Tech*; an annual, the *Big T*; a handbook, the *little t*; a literary-art anthology, *Totem*; a course evaluation booklet, the *Teaching Quality Feedback Report*; and an *Undergraduate Research Opportunities Handbook*.

SECTION 2. The Editor and Business Manager (if any) of each publication are solely responsible to the Board of Directors for that publication's success. The Board of Directors may make recommendations to the Editor or Business Manager in regard to policy of finances. The Board of Directors is ultimately responsible for the circulation and finances of the publications.

SECTION 3. The Editor of each publication is responsible for the selection and preparation of the contents of that publication exclusive of advertising material. He is responsible for meeting deadlines agreed upon with printers or other contractors. His responsibilities terminate after the publication is printed.

SECTION 4. The Business Manager of each publication is responsible for all funds belonging to that publication. He may open accounts only with financial institutions previously approved by the Board of Directors. He will account for all income and expenditures in a manner recommended by the Treasurer. He will submit reports on the financial condition of the publication to the Board of Directors at the beginning of each term and at the end of the academic year. He is the only one empowered to transact business in the name of a publication. His responsibilities terminate after distribution of the publication, invoicing of all advertising and other receivables, payment of outstanding bills, preparation of adequate financial records, and, in the case of the *Big T* and the *little t*, the collection of all revenues from advertising and other sources. If no Business Manager is appointed for the publication, these responsibilities are also those of the Editor.

SECTION 5. All checks must be signed by both the Editor and the Business Manager.

SECTION 6. Contracts or agreements may not be made, by the Business Manager of any publication, that extend beyond the end of the academic year in which his term of office expires, unless a termination clause which requires ninety (90) days (or less) notice to be effective is part of the contract or agreement. However, the Board of Directors may enter into contracts on behalf of a publication for a period not to exceed three (3) years.

SECTION 7. Printing contracts for the *Big T* or the *little t* must be approved by the Board of Directors before they are awarded. Prior to requesting this approval, the publication (*Big T* or *little t*) must submit a budget for approval by the Board of Directors. Such a budget shall include a reserve amount of 10% of the reasonably expectable income of the publication, to be held for unforeseen expenses. The reserve amount may not be used without the prior approval of the Treasurer.

SECTION 8. The Board of Directors will pay all salaries from ASCIT funds upon satisfactory completion of the Editor's work. Commissions will be paid from the respective publication's funds upon satisfactory performance by the Business Manager. No commissions may be paid under any circumstances until the advertising has been paid for. Salaries and/or commissions may be withheld by the Board of Directors, in whole or in part, for unsatisfactory performance by the Editor or Business Manager, including failure to submit on time the required financial reports, or gross financial negligence. For the purposes of this section, a team of Editors or a team of Business Managers shall be considered as one office-holder.

- The *California Tech*. The Editor will receive a salary of three hundred dollars (\$300) for each term's work payable at the end of each term. On advertising sold and paid for, there will be a commission of 30% of the net (actual) amount received except for advertising placed by national advertising representatives (e.g. CASS), upon which the commission will be 5% of the net (actual) amount received. The net commission will be distributed at the end of each term as follows: the first four hundred dollars (\$400) will be guaranteed to the Business Manager; of the remainder, 50% will go to the Business Manager and 50% will go to the Editor.
- The *Big T*. The Editor will receive a salary of three hundred dollars (\$300) with a maximum possible bonus of two hundred dollars (\$200). He may appoint a maximum of four Assistant Editors, who will each receive one hundred dollars (\$100). The Business Manager will receive a commission of 5% on national solicitation service ads and 15% on all other ads.
- The *little t*. The Editor will receive a salary of two hundred dollars (\$200) with a maximum bonus of two hundred dollars (\$200). The Business Manager will receive a commission of 15% on all advertising sold and paid for.
- The *Teaching Quality Feedback Report*. The Editor will receive a salary of one hundred fifty dollars (\$150) with a possible bonus of one hundred dollars (\$100). He may appoint a maximum of two Assistant Editors, who will each receive a salary of fifty dollars (\$50).

SECTION 9. For the bonuses in the previous section to be paid, the publications must be distributed no later than the following dates: the distribution date of the *Big T* must be no later than ten (10) days after the day of general registration first term of the following year; the distribution of the *little t* and the *Teaching Quality Feedback Report* must be no later than the day of general registration first term.

SECTION 10. The Board of Directors may, at its discretion, honor all personal expense accounts incurred by the members of any publications staff while in office.

SECTION 11. The Editor and Business Manager of the *California Tech* take office at the beginning of the corporate fiscal year; the Editor and Business Manager of the *Big T* take office at the beginning of the academic year covered by their edition; the Editor and Business Manager of the *little t* take office immediately following their appointment; the Editor of *Totem* takes office the first day of June; the Editor of the *Teaching Quality Feedback Report* takes office at his appointment.

SECTION 12. *Totem* is to be published at the discretion of the editor.

SECTION 13. The Publications Darkroom Chairman is responsible for maintaining the publications darkroom, authorizing persons to use the facilities, and filing negatives for the use of the publications. He will receive an annual salary of one hundred fifty dollars (\$150). He takes office at the beginning of the corporate fiscal year.

SECTION 14. The Articles of Incorporation, these By-laws, and the Resolutions to these By-laws shall be published each year in the *little t* in completely amended form.

## Summary of Changes

Same as current §1.

Clause about printing contracts deleted; superseded by new §7. "(if any)" added because some publications (*Totem*, for example) do not have a Business Manager.

New section, outlining general editorial responsibilities (analogous with the section for Business Managers' responsibilities).

Revision of current §3: states more explicitly when financial reports are due; expands definition of when responsibilities terminate; assigns these responsibilities to Editor if there is no Business Manager; "financial institutions" substituted for "banks"; "income" for "receipts."

No change: formerly was part of current §3.

Revision of current §4: removes an ambiguity on how long a contract a Business Manager may make; replaces prior exceptions with general exemption for contracts with termination (escape) clauses.

New section: *Big T* and *little t* must have budgets and printing contracts approved by Board of Directors; 10% of budget to be held in reserve.

Revision of current §5: to state explicitly the already existing ability of the Board of Directors to withhold salaries and commissions because of incomplete or incompetent work by an Editor or Business Manager.

N. B.: In (a), the commission split between the Business Manager and the Editor was not changed—it's just expressed differently: \$400 per term instead of \$1200 per year.

Revision of current §8: the clauses on termination of responsibilities were moved to new §3 and §4; "the beginning of" changed to "the day of general registration" in the *Big T* distribution date clause.

Same as current §6.

Same as current §7.

Same as current §9.

Revision of current §10: changes term of office to be that of corporate fiscal year instead of academic year.

Same as current §11.

# By-Laws Change Explanation

At left is the proposed text of a new version of Article XIV of the ASCIT By-Laws (Publications). This will be voted on at the ASCIT final election next Friday, not at the initial election on Monday. (The amendment procedure requires publication of the proposed amendment at least seven days prior to voting.)

The major changes which are part of this proposal came about because the Board of Directors perceived a need for better fiscal responsibility on the part of those appointed to run the student publications, most noticeably the *Big T*. Twice within the past ten years the yearbook has needed to be bailed out for costing many thousands of dollars more than its actual income. In other years, money from the following year's book was often used to pay the left-over debt of the previous year, and a sort of "floating debt" was perpetuated. Even the recent raise of the assessment from \$15 to \$24 did not curtail this problem.

The end result has often been that the yearbook's printer did not receive his final payment until some months after invoicing, resulting in hundreds of dollars of service charges.

The proposed changes are summarized in the column to the right of the revised text. Please refer to pages 141-143 of the current *little t* for the current text of this article. [In a By-Laws vote last term, the words "for covers" were struck from Article XIV, Section 4.—Ed.]

The most important changes are in the new sections 4 and 7. The *Big T* and *little t* will be required to submit budgets to the Board of Directors for approval, and must hold 10% of their expected income in reserve. By scrutinizing more closely the intended plans for these books and by requiring a financial cushion in case of error, the BOD intends to avoid the fiscal errors of the past. In addition, an already existing—but seldom observed—clause requiring publications to submit "term and annual reports" has been strengthened by stating explicitly when these reports are due.

To drive home their intentions that the publications be run in a proper manner, the BOD is stating explicitly in the section on salaries and commissions (new §8) its innate ability to withhold salaries and commissions for unsatisfactory performance. To make clear what the BOD expects from its Editors and Business Managers, new sections 3 and 4 on their responsibilities have been expanded.

Minor changes, made as part of this overall revision, include:

The section on lengths of contracts was rewritten (again!) to (1) state more clearly how long a Business Manager may contract for; (2) allow contracts of indeterminate length if a termination (escape) clause is included; (3) allow the BOD to enter contracts lasting up to three years on behalf of a publication—just in case (1) or (2) doesn't apply. The current wording allows the *California Tech* to "enter into contracts for national advertising . . . for a period not to exceed three (3) years." But for many years, the *Tech's* national advertising representatives have been offering annual contracts which automatically renew, and which have a termination clause. The new language reflects the real situation better.

The Publications Darkroom Chairman's term of office was changed to start with the ASCIT fiscal year (March 1) instead of the academic year. This will allow the new appointee to consult his predecessor while actually doing the job—an advantage the current office holder did not have.

Because "the net commission will be distributed at the end of each term" (new §8(a)), the wording of the amount guaranteed to the Business Manager was changed from \$1200 (for the year) to \$400 (for each of three terms).

To be more explicit, and to parallel the *little t* clause which follows (new §9), the phrase "the beginning of" was changed to "the day of general registration" in describing the *Big T* distribution deadline.

—Gavin Claypool

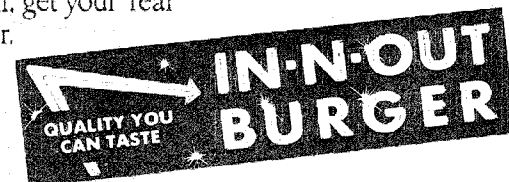
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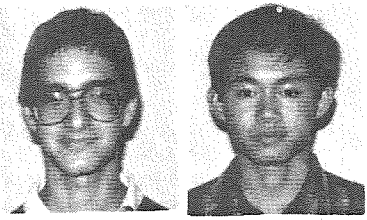
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## Activities Chairman


**Munir Bhatti**  
**Phaisal Atsavapraneer**

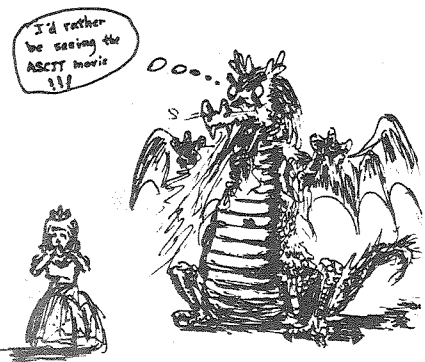
The duty of the Activities Chairmen is to provide cheap entertainment on Friday nights. We promise to do this and, furthermore, that this entertainment will be of indisputable high quality. Thank you for your vote.


**Nick Kledzik**  
**Keith Rosema**  
**Paul Searcy**  
**Nicole Vogt**

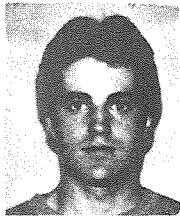
The title is misleading, but the Activities Chairmen are the people who produce that ultimate flick every Friday night.

We feel that being a projectionist requires, well, to be honest, not much skill. That is why we are qualified. As of now we are not quite sure which is the business end of a projector, but we learn fast.

All in all, we are psyched to continue bringing you quality movies every Friday. If elected, we will go out of our way to bring you quality Looney Tunes with an occasional trailer. We've even practiced knocking over beer bottles in the dark.



## Athletic Manager



## Chris Schofield

I feel that I have the knowledge and experience necessary to be an excellent ASCIT Athletic Manager. I have been one of the Athletic Managers for Fleming House since my freshman year and I have participated in both soccer and track on the intercollegiate level. In addition I enjoy participation in sports of all kinds. Thus, I feel that my knowledge and background in intercollegiate, interhouse, and recreational athletics will enable me to fill this office well.

## ASCIT Director of Academic Affairs



## Tyllis Chang

I am running for the office of Director of Academic Affairs because I want to restore the Teaching Quality Feedback Report (TQFR) back to the format it had before last year: showing the quantity of each numerical response, not just the average; printing the entire question in each class report; and printing *all* comments (with the number of times each is made), instead of deleting conflicting comments.

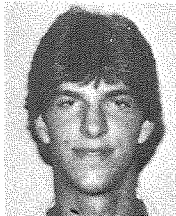
In the past year, I have been an alternate to the Curriculum Committee, and have served on the Faculty-Student Conference Core Curriculum Committee. I will be a good worker for the TQFR, and a responsible member of the Board of Directors. Please vote for me on Monday.



## Devin Leonard

The responsibilities of the Director of Academic Affairs include publishing the TQFR and chairing the Educational Policies Committee. I understand that the TQFR plays an important role in your class selections, and I am dedicated to making the TQFR accurate and descriptive for that purpose. When elected, I will do my best to represent your real academic interests in their entirety to see that they become part of ASCIT policy. Thank you.

## ASCIT Director for Social Activities



## Rob Soderbery

I am running for the position of Director of Social Activities because I would like to contribute to the betterment of social life here at Tech. I have had experience in planning campus-wide parties and social events for Page House. I have also dealt with social teams from other schools and I feel I can represent Caltech well in dealing with other schools. I am prepared to commit the time required to perform the duties of the Director of Social Activities and I am ready to work for the student body. I would appreciate your vote and your support.

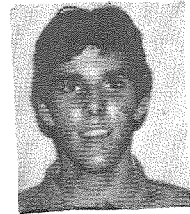


## Mickey Spiegel

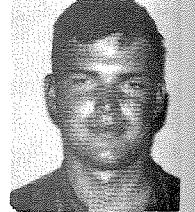
The Director for Social Activities is responsible for the planning and organization of all of the campus-wide social activities. As the Director for Social Activities, I plan to work toward the increased involvement of other schools in our parties and toward getting some of the bigger bands from the

local area to our parties. In addition to having one big party a term, there will be other events such as Beerball games and the Ath Formal, plus any other good suggestions that come to my attention.

This job also requires qualities such as leadership and experience, which I have gained through my activities as Captain of the Ski Team for three years and in helping out in the planning, organization and operation of both campus-wide and Page House parties. I am willing to put all of the energy and effort necessary to do the best job possible, in contrast to my opponent, whose record as a member of the Page House social team stands. Because of my enthusiasm and experience, I believe that I am the best candidate for the job.



**Tech Editor**  
**Write in**  
**Candidates**  
 Mike McDonald  
 Mark Montague  
 Randy Pollock


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## ENTERTAINMENT

## Movie Review

## Kurosawa's King Lear

by David Hull

*Ran (Chaos)*

*Ran* is *King Lear*, *King Lear* is *Ran*. This is all you know and all you need to know.

I had only seen *Lear* twice. Once when I was an usher during my frosh year, a Shakespeare company had put on a *Lear* fully of vaguely eastern sets and costuming, weird atonal music and general artsy obscurity. It was interesting to look at, but not particularly enlightening. A couple of years later, I saw *The Dresser*, in which a traditional production of *Lear* in wartime England forms the backdrop for an aging actor's collapse.

Thus I was basically familiar with the story, but had never really seen a full, clear production of *Lear*. Now I have. *Ran* presents the story in clear, elegant strokes. An aging warlord cedes his power to the eldest of his three children (daughters in *Lear*, sons in *Ran*). The youngest child objects, saying that the oldest two will take what he has left, rather than protect him in his old age. The father banishes the youngest child for being so disrespectful, and the older children proceed to do just as the youngest had said.

The old King stays as the guest of the two older children in turn, but leaves them both when he learns they are only after his power. In the course of events, the

King's entire escort is killed; he is left with nothing but his fool and a loyal servant. He is ashamed to face his loyal youngest child, but this is his only chance of survival. Faced with this situation, the King takes leave of his senses ("The better for him," says the fool), and eventually returns ("More's the pity").

He meets up with his youngest child again, and just as they are reconciled, (this being Shakespearean tragedy) the child is killed. The old King dies of grief. Meanwhile, the second child dies in battle, and nothing at all remains of the old kingdom.

Woven into this basic story are a few subtexts. There are three characters who are victims of the old King's earlier violence. One is Lady Sue, the wife of Jiro, the second son. She, a Buddhist, has accepted her past, and forgiven the King. Her younger brother, Matsumura, had his eyes gouged out on the King's orders. He is unable to forgive, yet when the exiled King is stranded by a storm, Matsumura takes him in.

The third, Lady Kaede is the wife of the eldest son, Taro. When he is killed, she becomes Jiro's wife. She is completely bloodthirsty and ruthless, bent only on avenging her family by undoing the old King's household. The woman is such a bitch that when Jiro's adviser tells her off in one scene, and beheads her in another, the

audience applauds.

The major subtext, however, is between the King and his fool. The two are inseparable, master and servant each dependent on the other. While the fool provides a running commentary on the events at hand and exerts his influence through subtle provocation, the King, even in the depths of loss and insanity, provides a center and authority figure, without which the fool is helplessly lost.

The performances in *Ran* show the essential qualities of the characters with great clarity. The dignity of the King is palpable, save only when he must face his loyal son, Saburo. Then his complete shame is accentuated by the contrast. In the case of the fool, not only does the great loyalty and attachment to the King come through, but also the sheer cunning and dangerousness of the character.

Kurosawa's storytelling abilities are outstanding. In just one line, the sibling rivalry between Jiro and Taro is driven home, reinforcing the personal basis to what otherwise might seem only to be scheming between warlords. Matsumura, whom we see mostly from the back or from a distance, achieves an almost otherworldly presence. Kaede's coldbloodedness reaches new depths every time she appears on screen. Throughout the film, Kurosawa makes the most of small details and nuances.

The major shortcoming lies in the battle scenes, which are long, drawn out, somewhat confusing, and drenched in red paint. Kurosawa seems to have a liking for such pageantry — *Kagemusha* had it too. If you like seeing hordes of warriors in shiny armor carrying bright banners and spewing gore all over the place, you'll love this. And yet, I still admired the cinematography, and the surreal mood evoked. My complaint is that there was a bit too much of it.

*Ran* is a wonderful movie to look at. The outdoor scenery, the Japanese castles, the costumes and the actors all please the eye. With the exception of the battle scenes, the pacing is good. *Lear* takes a while to tell, and Kurosawa seems to like making long films, but I did not find the length distracting. The story is rich in imagery and symbolism, and Kurosawa's setting

allows us to explore both. He doesn't hit us over the head with cardboard characterizations, nor does he obscure the story in a muddle of pretense.

\* \* \*

A few notes about the theater. *Ran* only seems to be playing at one place in LA (Laemmle's Royal, 11523 Santa Monica Blvd., West LA). Fortunately, it's not a bad place. Be sure and arrive late, though. They seem to think it good practice to pad a three hour or so film with an *LA Times Magazine* ad, five (count 'em, five) previews of coming distractions, (all designed to scare people away from the films in question) and a list of what's showing where at other theaters in the chain. Showings are at 2:00, 5:15, and 8:30 p.m. for \$6, but check the *Reader* or the Calendar section of the *Times* just to be sure.

## Movie Review

## Goldie's Football Movie Fumbles

by John Fourkas

*Wildcats*

Directed by Michael Ritchie

Warner Bros.

How does this sound as a plot for a new movie: a team of misfits that can't even win a single game gets a new coach. This new coach inspires the players, gives them self-confidence, and they end up winning championship game. Already taken? Hmm... OK, try this: a divorced couple fights for custody of their kids, and the dramatic implications are explored. That one too? Well... here's a great one: Goldie Hawn plays a woman determined to succeed in a "man's" job. She manages to get the job and do tremendously well at it, to the chagrin of many a male bigot. What? Taken more than once? Well why waste three great ideas just because they've already been taken? Just mix all three together and it will instantly make a great "new" idea. Oh, no! *That's* been taken too!

Yep. May I present *Wildcats*, a fine hybrid of *The Bad News Bears* (and all associated sequels), *Kramer vs. Kramer*, and just about every other Goldie Hawn movie ever made. But hey, there's more: L. L. Cool J's hot new "Football Rap" appears throughout the movie, so that a ripoff of the Chicago Bears' video can be done at the end of the film. Whoa—I'm getting way ahead of myself.

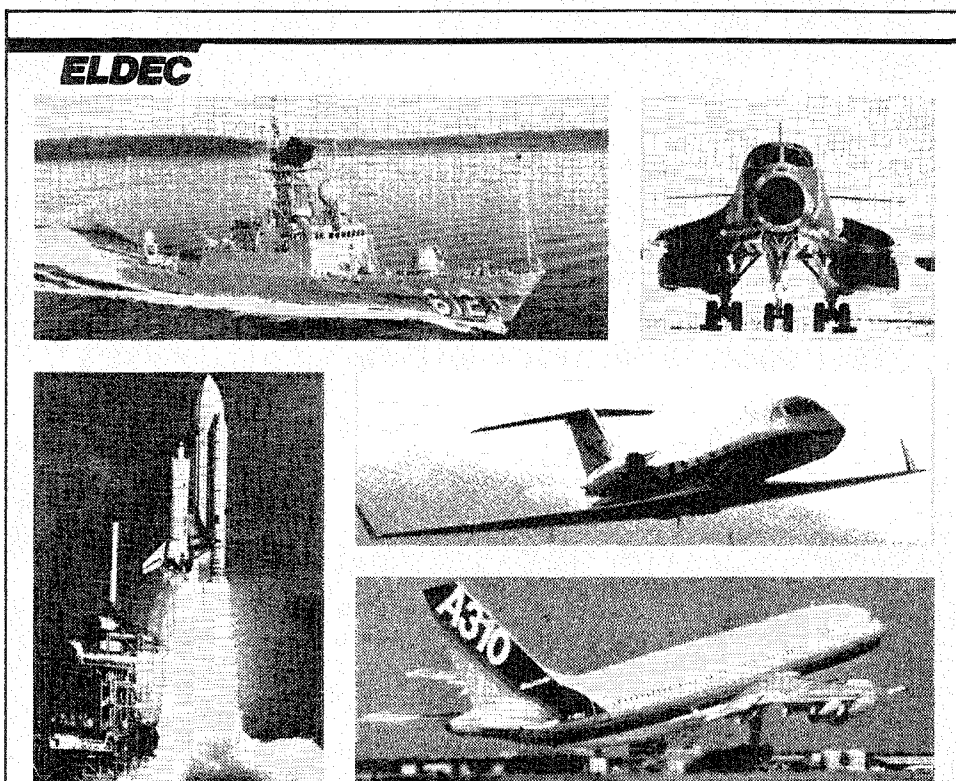
*Wildcats* opens with a good dose of "Football Rap". After the audience is good and sick of that (it took me about ten seconds), we get into some heavy duty character and plot development. Meet Goldie Hawn—er, Molly McGrath—a stifled women's track coach at a Chicago high school. The JV football coach has taken ill and is out

for the season, and she wants his job. Meet Dan Darwell, sexist football coach. Molly asks him for the job during a friendly game of racquet ball. After she beats him, he gets pretty PO'd. Come Monday, he tells her she can teach *varsity* football—at Central High School in the inner city. Now, if you can't guess the rest of the plot (or at least 90% of it) right now, then you don't belong at Caltech.

As for the other 10%, let me introduce Frank, her ex-husband (and a real jerk). He doesn't like the players on her football team, so he wants complete custody of their daughters. When one daughter dyes her hair orange, that's just icing on the cake. The Frank *really* pours on the steam—he tries to get her to quit coaching and teach Jazzercise at a private school for girls. Great stuff, eh?

*Wildcats* tries to use every hokey movie cliché ever invented. No team has ever won so many games by less than seven points in the last ten seconds of the game. This ploy is used over and over again, right to the bitter end. Poor, underprivileged criminals turn straight to play football. A quarterback steps down for the betterment of the team. You name it, *Wildcats* has it.

Mind you, there are a few pretty funny moments, and Nipsy Russell was actually pretty good as the principal of the high school. Unfortunately, the good points were few and far between (not to mention *very* short), and Nipsy Russell's part was small. I recommend *Wildcats* for fans of hokey movies; all others should avoid it like the plague. One view of Goldie Hawn in the bathtub just ain't worth it....



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## Life's little Necessities

*We Norwegians*: Ed Lark presents another Armchair Adventure. Beckman Auditorium. Friday, Feb. 7, 8:00 pm. \$7.00-5.50.  
*Stoltzman-Trampler-Luvisi Trio*: The program for this Coleman Chamber Concert includes Mozart, Shostakovich, Bruch and (horrors!) Brahms. Beckman Auditorium. Sunday, Feb. 9, 3:30 pm. \$15-13.50-12-10.

SPORTS

# Baseball Bettered By Aged

by Doug Oute

The battling Beavers opened up the 1986 baseball season competitively, losing two close games to the Caltech Alumni and Christ College.

In Saturday's game the Beavers faced off against the Caltech alumni in the first annual Caltech Alumni baseball game. The game was dominated for the most part by the alumni, who had a 6-0 lead going into the 9th inning, but in the bottom of the 9th the Beavers began to make their move. With the bases loaded, Min Su Yun singled to drive in two runs. The Beavers scored three more runs, making the score 5-6 with a man on second and two outs. The alumni managed to wriggle off the hook, getting the 3rd out and escaping with a 6-5 victory. Mike Keating had a good game for the Beavers, with a triple and a stolen base.

In Tuesday's game against Christ College, things started out better for Caltech. The Beaver offense pounded the Christ pitching, scoring 4 runs in the top of the first inning on 5 hits, including a double by Brandon Mymudes. Christ scored a run in the bottom of the second, but Caltech answered with two more runs in the fourth inning to make the score 6-1.

Disaster struck in the bottom of the fourth inning, as Christ rolled across 6 runs on 4 hits, making the score 7-6. In the next inning Christ added 3 more runs, increasing their lead to 10-6. Caltech never really recovered momentum, and lost 10-7. The outstanding offensive performer of the game was Brandon Mymudes, who was 3-4 with 2 RBI's and a double.

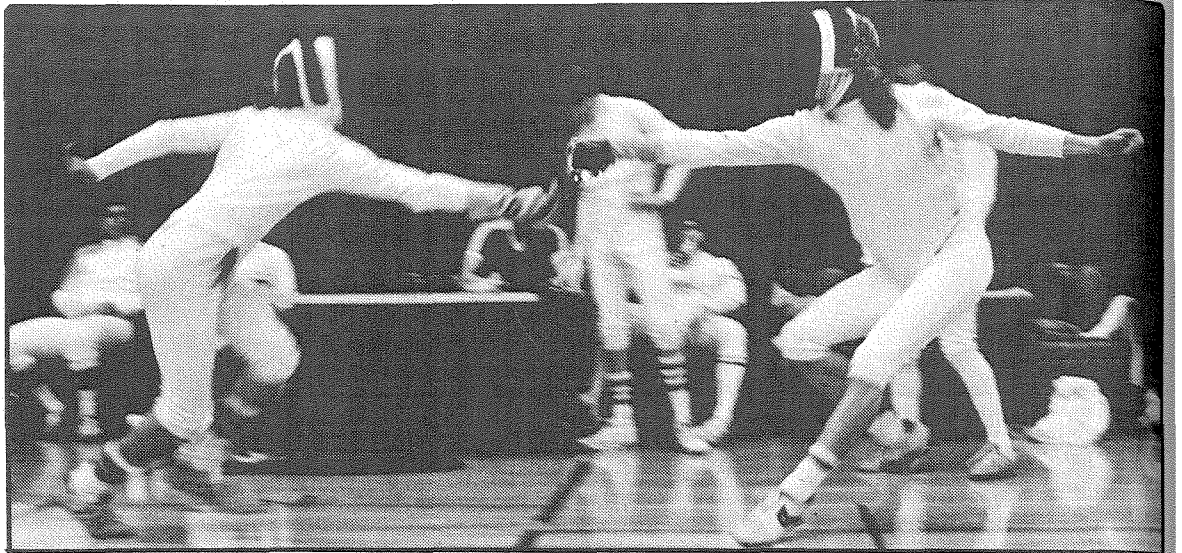
Saturday the Beavers host Christ College for a double-header. All who want to see a good baseball game are welcome.

## Box Score

Caltech				Alumni			
ab	r	h	bi	ab	r	h	bi
Keating p	3	1	0	Mostert lf	2	1	2
Yun lf	5	1	2	Toner c	5	0	1
Hamrick c	4	1	1	Abbott 1b	4	1	1
Bruning 1b	5	0	1	Shors 1b	1	0	0
Colder ss	3	0	1	Buck cf	2	1	0
Lin 2b	3	0	0	Casey ss	4	1	0
Lund 2b	2	0	0	Schwartz 3b	5	1	2
Burleigh 3b	3	1	1	Burak 2b	5	1	2
Maramoto 3b	2	1	1	McKenzie p	2	0	1
Rigler cf	2	0	1	Finley rf	3	0	0
Covkendall rf	2	0	0	Marshall rf	2	0	0
Roberts rf	2	0	0				
	36	5	8		39	6	8

E--Bruning, Lin, Colder, Burleigh. SB--Yun, Hamrick (2). 3B--Keating.

Alumni--	0	2	1	0	0	0	0	0	0	0	6
Caltech--	0	0	0	0	0	0	0	5	0	0	5



Swords-- The Beavers' Scott Lewicki (R) fences his UCSD opponent at Caltech.

photo by Rod Van Meter

## Making Peace

by Valerie Hoffman

The Jewish Graduates Association of Cal State L.A. will present a lecture and discussion with psychologist and author, Dr. Leonard Felder on Thursday, February 13th at 7:30 pm in the Y Lounge in Winnett.

The discussion will deal with such issues as the effect of unresolved issues with parents on choice of partners, overcoming feelings of guilt, dealing with parental pressures, and moving beyond family roles that may have been outgrown. *Making Peace with Your Parents* has received praise from such noteworthy people as Carl Rogers, Elisabeth Kubler-Ross and Leo Buscaglia.

The Jewish Graduate Student's group was formed this year and hopes to offer programs that will be of interest to graduate students and older, re-entry students. Sponsored by Hillel, the group will offer students an opportunity to meet and socialize with students from Cal State L.A., Caltech and U.C.L.A. Several activities are planned for this quarter including a women's group and social activities.

For more information call 208-4427 or 667-2470.

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**SPORTS**



**Rolling Thunder—**  
Caltech's Jarita 'Lightning Legs' Holbrook bolts past a DeFeet defender in a soccer match on Sunday. Despite flashes of excellence, Tech suffered the agony of....

photo by Jonathan Brown

# Hockey Brawl With CSUNR

by Marty Zimmerman

You know the old joke: "I went to a fight last night and a hockey game broke out!"? Well, that was the case Tuesday night as Caltech paid a glorious tribute to "old-time hockey." Last week there were 17 penalties in the game against Cal State Northridge, but that was just a warmup for this week.

By the third period the game was getting out of hand. Each team scored one more goal. Chris Friedman scored Caltech's goal with a beautiful slapshot from the blue line. The final score was Northridge 7, Caltech 2, slightly better than last week's results. The penalties were pretty even. Both teams received 11 minors and a major (that's 27 minutes of penalties apiece, for those of you who are counting). In addition Caltech got a fighting game misconduct (ejection plus two game suspension) while Northridge received two third-man (to join a fight) game misconducts (ejection plus one game suspension). Congrats to Rick Miake-Lye, Martin Brouillette, Pierre Laroche, and Chris Stork who all managed to avoid visiting the penalty box. The best part is that next week we get to play CSU Fullerton, the dirtiest team in the league. At least we're in shape. Seriously, we'd love to have you come out to cheer us on. See ya there!

The first period was quite close. Northridge jumped out to a two-goal lead, but Martin Brouillette scored an unassisted goal to bring the tally to 2-1 at the end of the first period. At 9:58 of the second period a Northridge player punched the Caltech goalie and a brawl broke out. When the smoke cleared, three players had been ejected, including one Caltech skater. From then until the end of the game Caltech rarely had five men on the ice (nor did Northridge for that matter). From this point the game slipped away as Northridge scored four unanswered second-period goals.

## WEEKLY SPORTS CALENDAR

Day	Date	Time	Sport	Opponent	Location
Sat.	2-8	All Day	Wrestling	Biola Invitational	Biola
Sat.	2-8	10:00 am	Swimming (M/W)	U.C. Riverside	Caltech
Sat.	2-8	11:00 am	Women's Tennis	Middlebury College	Caltech
Sat.	2-8	12 noon	Baseball	Christ College	Caltech (2)
Sat.	2-8	1:00 pm	Fencing	UCLA & San Diego State U.	Caltech
Sat.	2-8	2:00 pm	Men's Tennis	Faculty	Caltech
Sat.	2-8	6:00 pm	Basketball	Claremont-Mudd JV	Claremont
Sun.	2-9	3:00 pm	Women's Soccer	Valkyries	Caltech
Mon.	2-10	1:00 pm	Golf	Claremont-Mudd	Occidental
Tue.	2-11	2:30 pm	Baseball	Pacific Coast Baptist Bible	Caltech
Tue.	2-11	9:30 pm	Ice Hockey Club	Cal State Fullerton	Pasadena Ice Center
Wed.	2-12	3:00 pm	Women's Tennis	Occidental	Caltech
Wed.	2-12	6:00 pm	Basketball	Occidental JV	Occidental
Fri.	2-14	1:00 pm	Golf	La Verne	Whittier
Fri.	2-14	All Day	Wrestling	NCAA Div. 3 West Regional	Wisconsin University
Sat.	2-15	All Day	Wrestling	NCAA Div. 3 West Regional	Wisconsin University
Sat.	2-15	10:00 am	Swimming (M/W)	Pasadena City College	Caltech
Sat.	2-15	12 noon	Baseball	Christ College	Christ College (2)
Sat.	2-15	1:00 pm	Women's Tennis	Cal Lutheran	Cal Lutheran
Sat.	2-15	1:30 pm	Men's Tennis	Claremont-Mudd	Claremont (V & JV)
Sat.	2-15	7:30 pm	Basketball	Whittier JV	Caltech

# Hoopers Foul - Lose Height

The Caltech basketball team lost a pair this week. On Saturday the Redlands J.V. came to town and won a game in which four Tech starters fouled out. Jim Helgren and Brett Bush both fouled out after playing only about 20 minutes, and the lack of muscle inside hurt badly near the end of the game.

On Wednesday the team traveled to Pomona where once again foul trouble for Bush and Helgren hurt the team in the second half. The Beavers were down by about ten points throughout most of the second half and made a valiant comeback in the last three minutes

only to fall three points short. Team rebounding was especially hurt in this game by Pomona's strong play inside and limited playing time by the two Beaver big men. Caltech got only 14 rebounds the entire game. Ed Zanelli led all scorers with 19 points - most of them from the inside off the drive.

The Beavers will be on the road this week - playing at Claremont on Saturday and at Occidental on Wednesday - and then will finish the season with their final three games at home. Everyone's invited on a roadtrip to Oxy on Wednesday to support the team.

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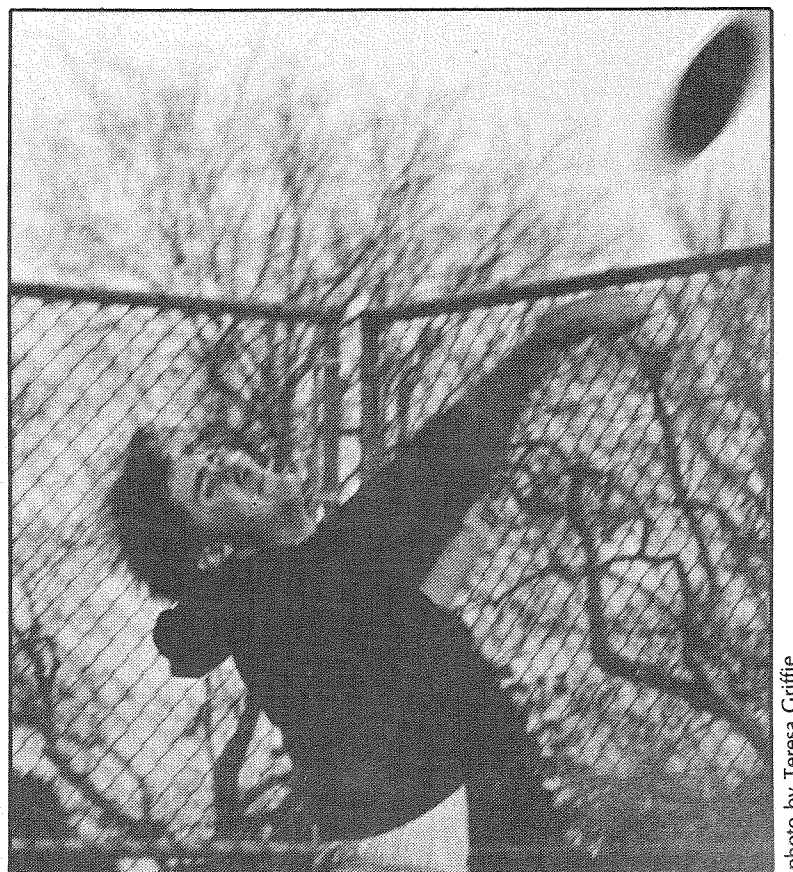


photo by Teresa Griffie

**The Big Disc**— An artful thrower of the discus adds points for his team. The Interhouse track and field meet was held this week. Page House won, with Fleming a close second.

# WHAT GOES ON

## Intro to Skydiving

There will be a no obligation, no cost (i.e., FREE) talk/class for anybody interested in skydiving on Monday, February 10 at 7:30 pm in Winnett Clubroom 1. The "seminar" will be given by Billy Reed, a veteran of some 25 years and professional parachuting instructor. Anyone interested please either show up or contact Steve McAdams at 578-9562.

## Co-ed Hatha Yoga

Hatha Yoga postures, relaxation and basic breathing techniques to relieve tension, improve posture, concentration and body awareness, increase flexibility, strength and balance, will be taught at the Caltech Y (upstairs in Winnett) on Thursdays, beginning February 20 from 6:30 to 8:00 pm. Cost is \$7 per class or \$28 per month. Instructor Marsha Everett has been teaching Hatha Yoga classes in the Pasadena and Sierra Madre area for 10 years. Limited space; pre-registration and more information please call extension 3933.

## Optical Money

SPIE—The International Society for Optical Engineering, is offering scholarships. Awards will not be made on the basis of need. Selections will be based upon an assessment of the student's potential contribution to optical or optoelectronic applied science and engineering.

For further information and applications, please contact the Financial Aid Office, room 10, Parsons-Gates. Application deadline: May 5, 1986.

## Math Club

Throughout the second term, the Math Club is offering a series of informal lectures collectively titled "Methods in Mathematics." Topics will range from algebraic methods to topological methods to geometric methods that are indispensable in modern mathematics and form a significant part of modern mathematical sciences. Professor Fuller will begin the series with a talk entitled "Existence of Fixed Points by Topological Methods" at 7:30 pm on Wednesday, February 12th, in 157 Sloan.

## Memorial Math Talk

Dr. Ivan Niven, Professor of Mathematics at the University of Oregon, will deliver the Leonidas Alaoglu Memorial Lecture on Tuesday, February 18 at 4:15 pm in 22 Gates. The lecture will be on "A Problem of Ulam on the Binary Search Algorithm." Niven, whose primary research has been in the area of number theory, is the author of seventy papers and seven books, including co-authoring a classical number-theory text with Herbert S. Zuckerman. Niven is also the immediate past president of the Mathematical Association of America.

The Leonidas Alaoglu Memorial Lecture was established by friends and family of the late Leonidas Alaoglu in recognition of his great talents, his distinguished contributions to mathematics, and his long friendship with Caltech. The Institute is privileged to honor his memory with a lecture each year by an outstanding mathematician.

## Singing Valentines!

Hey girls, why not send your sweetie a special gift? This Valentine's Day the Caltech Sweet Adds will personally serenade the man of your choice anywhere on campus for the modest fee of \$5.00. For reservations call Carol (x6961).

## Sousa Meets Mozart

There will be a "pops" concert by the fifty-piece Caltech Wind Ensemble on Friday, February 7 at 8 pm in Ramo Auditorium. Featured soloists will be Sean Wakayama on clarinet and David Hodge on the horn. There will be music by Sousa and Mozart (though not played at the same time). The concert is FREE and if you're not happy with the music there will be a full refund.

## Uranus Encounter

No, this announcement isn't late.

Mr. Michael Urban will present a lecture entitled "Uranus Encounter" at 7 pm on Saturday, February 22 in the Von Karman Auditorium at JPL.

Mr. Urban is leader of the Advanced Software Development Group for the Voyager Project at JPL. He will talk about the Voyager Project with emphasis on the preliminary results of the Uranus Encounter.

The lecture is one of many activities sponsored by the Organization for the Advancement of Space Industrialization and Settlement (OASIS). The organization is a non-profit educational group which promotes space development.

The public is invited; there is no admission charge. For more information about this lecture or other OASIS activities call F. Wiley Livermont at (818) 700-8382.

## Kodak Scholarship

Two Kodak Scholarships will be awarded to sophomores in Electrical Engineering or Chemistry. The scholarships will be made on the basis of academic and personal excellence, without regard to financial need. The amount of the annual scholarship will be ¼ of tuition. Applications and additional information are available in the Financial Aid Office, Room 10, Parsons-Gates. Application deadline: February 25, 1986.

## Masters in 15 Months

The University of Massachusetts at Amherst is offering a very limited enrollment 15-month graduate program called the Math/English/Science/Technology Education Project. The goal is to attract the finest possible students to the field of teaching. M/E/S/TEP is an intensive 15-month M.Ed. program that will include a group of 24 academically talented young men and women selected by University, school and corporate personnel. The program involves:

- a paid semester-long internship in a Massachusetts public school;
- a paid semester-long internship in a major corporation such as Digital Equipment, Houghton Mifflin, Bank of Boston, Spinnaker Software, Data General or New England Telephone;

- an intensive introduction to teaching by excellent experienced teachers in a summer setting;

- a curriculum design and commitment for three years by the University, school systems and corporations to expand participants' career and earning opportunities.

Prospective applicants must have a bachelor's degree in math, one of the sciences, engineering or English by June 1986. The program runs from June 1986 through August 1987. Application deadline is March 1, 1986. To obtain application materials, write to:

M/E/S/TEP  
School of Education  
Furcolo Hall  
University of Massachusetts  
Amherst, MA 01003

## Imitate Hemingway

No, not by being fat, hairy and dead, but by *writing* like Hemingway, for fame and fortune.

The Ninth International Imitation Hemingway Competition has a February 15 deadline. That's only eight days from now. Write fast!

What is imitation Hemingway? It is writing. One page of writing, like Ernest Hemingway. It is parody. Funny is good. Very funny is very good.

Entries must sound like Hemingway, read like Hemingway. Entries must mention Harry's Bar and American Grill. Nicely.

The winner will receive dinner for two at Harry's Bar in Florence, Italy (plus round-trip air fare for two). If the winner is from Europe, he or she comes to Harry's in Los Angeles.

Judges for this year are Ray Bradbury, Barnaby Conrad, Jack Hemingway (son of Ernest), Digby Diehl (book editor of the Los Angeles *Herald Examiner*); Bernice Kert (author of *The Hemingway Women*); ad exec Paul Keye; George Plimpton; and local favorite Jack Smith.

Submit your entry to Harry's on an official entry blank or a plain piece of paper. Entry blanks are available in person or by mail from the restaurant, 2020 Avenue of the Stars, Los Angeles, CA 90067. All entries become the property of Harry's Bar & American Grill.

## Road Hockey

The Canadian Club would like to remind all its old members that we are still playing road hockey on the parking lot north of Watson every Saturday from 9 am til noon. We would also like to invite out any interested new players (you don't have to be a hoser, everyone is welcome). Some sticks are available if needed. Call M. Butler at x4666 if you have any questions about us.

## Peace w/Your Parents

The Jewish Graduate students of Caltech/CSLA invite you to come enjoy an evening with Leonard Felder, Ph.D., co-author of the best selling book *Making Peace with Your Parents*. Brief talk followed by discussion. Thursday, February 13, 7:30 pm, Caltech Lounge. Refreshments will be served. *Everyone Welcome.*

## CLASSIFIED

### HELP WANTED—

**COMPUTER ENGINEERS.** Full time contract and permanent positions at JPL and other Valley locations. BSEE or Computer Science or equivalent experience. Execuserve Personnel Service, 1756 Manhattan Beach Blvd., Manhattan Beach, CA 90266 (213) 376-8733.

**COMPUTER GRAPHICS EXPERT** to develop graphics input software on IBM PC for the existing Power Electronics Computer Modelling Program. Flexible hours of up to 20 per week. Expected completion date June, 1986. Pay scale \$8 to \$10 per hour depending on qualifications. If you are interested and for more details please contact Prof. S. Cuk (x6492) or Mr. Gil Andrews (x4781).

**EXCELLENT INCOME** for part time home assembly work. For info. call (504) 641-8003 ext. 8738.

**AGENTS LOOKING** for people to work in T.V. commercials. For info. call (602) 837-3401 ext. 540.

### HOUSING—

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