

CIT vs. MIT

by Jim Caron

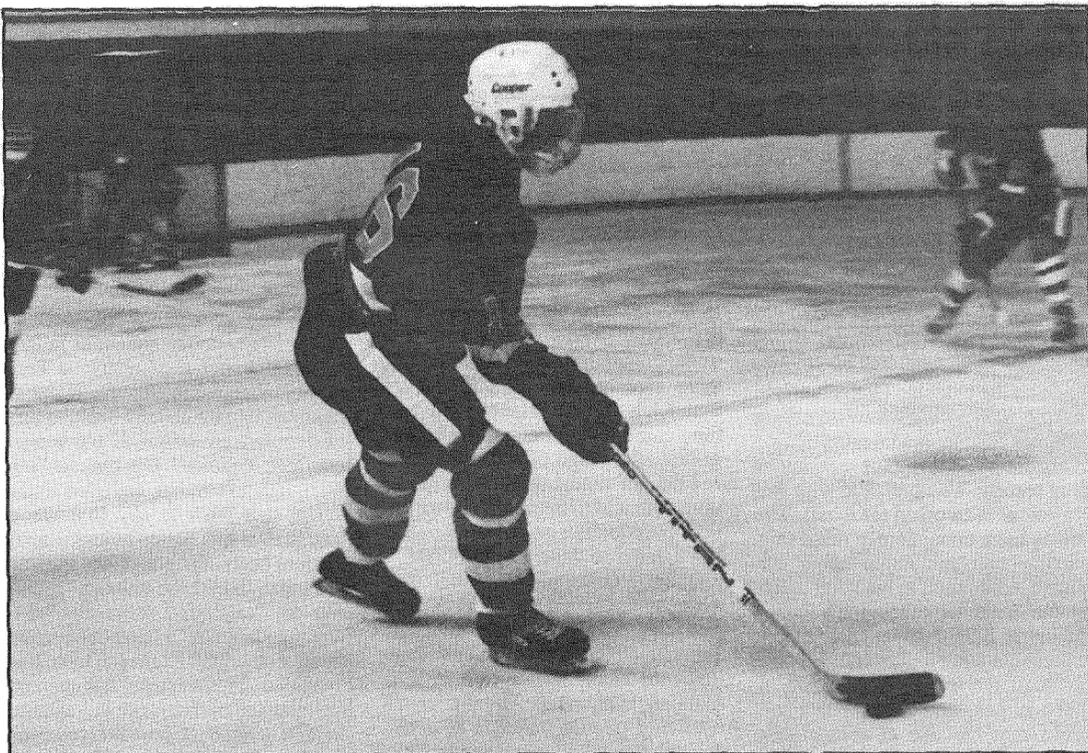
The Beavers from Caltech are once again hosting the Beavers from M.I.T. on Sunday at 11:30 a.m. at the Pasadena ice skating rink. The M.I.T. players are flying in on Friday night and have scheduled a Saturday practice in preparation for the big game. This game is becoming one of Caltech's traditions as this is the sixth time this game has been played.

Before we get all wrapped up into the hype of this game I think it important to look at M.I.T. for what it really is. Let's face it, M.I.T. is not as good as Caltech. Its primary function is that of a safety school for Caltech. Let's think of why that is.

Perhaps it is all that polluted water they have to ingest from the Charles River before they graduate. Or maybe it is from hanging around with all those women from their sister school Wellesley College that they bus in for all their fraternity parties. What is to be expected when you cross the Longfellow Bridge or cruise into Cambridge on Storrow drive and arrive at

M.I.T.? I'm still trying to figure that one out. Half the the time M.I.T. students can't remember their T stop at Kendall Square and end up in Dante's lowest level—Roxbury. Or maybe it is from all that great leadership they've had from people like Ted Kennedy and Mike Dukakis (yeah right) who have somehow managed to give Massachusetts a junk bond rating. Who knows, maybe it is just something in the chowder.

So far it has been a clean sweep for the easterners at M.I.T., but this year Caltech hopes to change that and put a one in the wins column. This game is traditionally a fun game to play but it is even more fun to watch. There is a surprisingly big number of M.I.T. alumni in the area that show up to this game and support their team. However, everyone in the world knows that Caltech is a much better school than M.I.T. except for the people who went to M.I.T. So let's remind our fellow Beaver colleagues what the rest of the world already knows on Sunday January 26 at 11:30 a.m. in Pasadena.



IHC Minutes for January 22, 1992

Discobolos: Lloyd forfeited last week. Blacker was next to challenge, but didn't, so Fleming counter challenged. Ruddock is next to challenge.

We spent a lot of time discussing rotation picking rules. Specifically, we were trying to write down the rules of the eighths method. (The 1st eighth of the frosh a House picked had to pick that House #1, the 2nd

eight frosh must have picked the House #2 or #1, third eighth #3, #2 or #1 and fourth eighth #4, #3, #2, or #1. In the second half of pick a House could pick any frosh that picked that House). It was discussed that if a frosh pick a house #5, 6 or 7, that frosh knew that he or she was picked in the second half of picks.

On of the issues was if a House ran

out of frosh that picked them a certain rating, what happens. (i.e. if a House had to pick 5 frosh who pick the house as #1 and 5 frosh who picked the house as #2 and only 2 people picked that house #1. Would the house have to pick 5 #2s (truncating) or 8 #2s (Cumulative)). We decided that the picks were cumulative and that lack of frosh who picked the House as a certain number would not cause a lock out.

Randy will rewrite the rules and the IHC will vote next week.

Aimee announced that Lloyd will have a new president by the next meeting.

More names for the Housing Committee and Hazing Committee were handed submitted.

Ruddock complained that Joe Andrieu played for Blacker in Interhouse Ultimate Frisbee. Joe is currently not a student and did not ask the IHC. In the future, if a student is not eligible to play and wants to, he or she must come in person and get permission from the IHC before the game.

On Friday, Housing condemned room 133 in Ruddock. There is a water leak in the wall to 133 (and it has been there since 1985). Ruddock also has at least one inoperable shower and the ventilation system for one shower room has been dead since third term last year. TJ stated that the members of Ruddock House pay \$25,000 a month in rent, and housing seems incapable of repairing things. TJ asked if the Housing budget could be made public. Just to illustrate another example, TJ mention a railing for one of the staircases was broken. Ruddock first asked for it to be repaired in 1982. It was repaired last year after people were injured because the railing was broken.

Kim said that she would talk to Nancy Carlton, but asked the Ruds to go to Nancy with their complaints also. TJ said that they already had, but he would go again.

[Aimee left at 2212.]

Benjamin Smith
IHC Secretary

Two Caltech Scientists Win NSF Faculty Awards

Two Caltech scientists are among 100 women nationwide who have received Faculty Awards for Women Scientists and Engineers (FAW awards) from the National Science Foundation (NSF). The two awardees are Mary B. Kennedy, associate professor of biology, and Mary E. Lidstrom, professor of applied microbiology.

"Drs. Kennedy and Lidstrom are excellent scientists at Caltech, and I'm delighted that they have been recognized with this award by the National Science Foundation," said President Everhart. "Their work is certainly outstanding, and this Faculty Award recognizes both their present accomplishments and their future promise."

According to the NSF, the FAW program was established to recognize the nation's most outstanding and promising women scientists and engineers, to retain them in academia, and to facilitate the further development of their careers. The awards consist of a research grant of \$50,000 per year for up to five years. The NSF received 601 applications nationwide for the FAW program and selected 100 of the applicants for awards.

Mary Kennedy, 44, is a native of South Bend, Indiana. She earned a B.S. in chemistry in 1969 from Saint Mary's College in Notre Dame, Indiana, and her Ph.D. in biochemistry in 1975 from Johns Hopkins School of Medicine in Baltimore, Maryland. She served as a postdoctoral fellow in the Department of Neurobiology at Harvard Medical School from 1975 to 1978, and as a postdoctoral fellow in the Department of Pharmacology of the Yale Medical

School from 1978 to 1981. Kennedy came to Caltech in 1981 as assistant professor of biology. She became associate professor of biology in 1984. Kennedy's research centers on synaptic signal transduction, the means by which one nerve cell communicates with another. In Mary Lidstrom, 40, is a native of Prineville, Oregon. She earned her B.S. in microbiology in 1973 from Oregon State University, and her M.S. and Ph.D., both in bacteriology, from the University of Wisconsin, Madison, in 1975 and 1977. She served as the Leverhulme Visiting Fellow at the Department of Microbiology in Sheffield, England, in 1977 and 1978. From 1977 to 1984 Lidstrom served on the faculty of the University of Washington, Seattle. While there, she was named assistant professor in the Department of Microbiology and Immunology in 1977, adjunct assistant professor in the Department of Oceanography in 1982, and associate professor in the Department of Microbiology and Immunology in 1984. In 1985 Lidstrom became associate scientist at the Center for Great Lakes Studies, and associate professor in the Department of Biological Sciences at the University of Wisconsin, Milwaukee. She came to Caltech in 1987 as associate professor of applied microbiology, and she was promoted to professor of applied microbiology in 1991. Lidstrom's research centers on methylotrophic environmental pollutants. She studies the genetic and biochemical mechanisms that allow them to do this so that these bacteria can be used to degrade environmental pollutants such as trichloroethylene (TCE). Lidstrom resides in Altadena.

Boffo Bonecrusher VII

After a term hiatus, the penultimate broomball tournament is back. If you weren't able to sign up a team for this one, there will be yet another broomball tournament in late February. Signups go up in the Caltech Y starting February 10th.

Teams

- | | |
|--------------------------------|-------------------------|
| 1. Sophomore Crew of Cusswords | 6. Damn Scurves |
| 2. Team Howie | 7. Not Brains |
| 3. Flyguys | 8. Not Bolts |
| 4. Team Tae Kwan Leap | 9. Bad Ass |
| 5. CCSA | 10. Larger Than a Truck |

Schedule

Teams	Time
8 x 7	12:30 - 12:50
5 x 9	12:55 - 1:15
4 x 3	1:20 - 1:40
6 x 8	1:45 - 2:05
7 x 5	2:10 - 2:30
3 x 2	2:35 - 2:55
10 x 4	3:00 - 3:20
9 x 1	3:25 - 3:45
1 x 6	3:50 - 4:10
2 x 10	4:15 - 4:35

Teams make the playoffs based on four criteria, ranked as following:

1. Record
2. Goal Differential
3. Style
4. Rock, Paper, Scissors done by Amit and Fru

Rules

7 players on the ice at once per team, one goalie, players may only play on one team without the permission of Amit or Fru, free substitutions, no checking. Each team should pick a full rules sheet from Amit or Fru before they begin play. Playoffs will pair the #1 team versus #4, and #2 versus #3, with the winners meeting in the championship. Good luck to all the teams involved.

Statements for ASCIT
President, Vice-President,
and California Tech Editors

page 4

Poll Results Dismal

page 3

Sports and More
Sports

page 6, 8

letters

TA Dating Response

To The Editors:

I wish to respond to Craig Steele's letter about TA Dating. In particular I wish to point out the fallacy of two of the major positions that he takes. One of these positions has relevance on a national level. The other position shows a lack of understanding of the functioning of Caltech as a society-state.

First, Mr. Steele makes the bizarre comment that "...a TA is a job, not a person." To draw a parallel, this is identical to arguments frequently made by the extreme Conservatives in American politics: "...workers are jobs, not people" is a fair summation of arguments calling for mandatory drug testing. The problem with this argument is twofold (at least). The courts have consistently ruled that, barring extreme extenuating circumstances (such as endangerment of the lives of others), this drug testing is illegal. Why? Because it represents an intrusion on the civil rights of the workers. In addition, there is not, and never has been, proof that the use of recreational drugs necessarily impairs the ability of a worker to do their job. If someone can restrict their drug use to a timeframe such that they are never under the influence while they are working; and their drug use does not interfere with their ability to do their work; then it is NONE of their employer's business whether or not they are using recreational drugs. There are many people who can use illegal recreational drugs in the same manner that many of us use legal recreational drugs (such as alcohol). While it is definitely the concern of law enforcement agencies if these people are breaking the law; it is not the concern of employers until these people are convicted. Remember, in America people are INNOCENT until PROVEN guilty. In short, drug testing policies are used as a replacement for proper management: if someone is not doing their job, regardless of whether or not they are using drugs, they should be disciplined or fired. If someone is doing their job, then they should be free to live their lives as they wish. This is one of the fundamental principles of individual liberty on which our nation is built.

In light of this, Mr. Steele, if you can demonstrate that a TA is not doing their job, you should take action. If a TA is doing their job, they

should be free to run their lives as they wish.

Secondly, Mr. Steele, Caltech has something called an Honor Code. Many grad students, and much of the administration, seem to have little faith in it. It clearly states: "No member of the Caltech community shall take unfair advantage of another member of the Caltech community." If TA's are using their positions to unfair advantage, as you suggest they are, this is a matter for the Board of Control or Graduate Review Board. By taking action to control personal behavior, your Graduate Study Committee has undermined the Honor System. You have clearly expressed the belief that TA's are not to be trusted; that they cannot be expected to not take unfair advantage of others.

I do not doubt the reality of the abuses that Mr. Steele alludes to; nor do I question the good intentions of the Graduate Study Committee. I can only conclude that this is a classic case of well-meaning people giving in to the fascistic impulse to control the lives of others. American society, as well as Caltech, is based on the principle of allowing people freedom of activity; while providing the control of accountability for actions after the fact. Until you can prove that every single dating-type interaction between TA's and students in their sections is and must be exploitative, you are removing the freedom of choice from those people who can act in a responsible manner. In doing so, you wrong us all.

In conclusion, Mr. Steele's desire to remove liberty from all TAs due to the actions of some TAs is a full frontal assault on both the Caltech Honor System, and American ideals of individual liberty and personal accountability. As such, the action of his committee should be resisted. I urge this committee to reconsider their policy; and to ask themselves the following questions: 1) Are we issuing a policy covering something already covered by the Honor Code? 2) If yes, why? 3) Are we treating Caltech TAs as mature adults able to make decisions for themselves, or like children who need guidance from a Big Brother? 4) Is it proper in a democratic society to forbid everyone from tasting a freedom simply because some people cannot handle it? I eagerly await your answers.

Sincerely,
Daniel Maskit
C.S. 256-80/818-585-1352

Editorial

—Jon Liljeblad

I'm going to break a few rules on this one and be a little bit more informal than usual. So give me a minute or two of your time and read this through.

When Delwyn, Andy, and I first thought of running for Tech editors we had the original intention of trying to improve the campus newspaper and making it something of acceptable substance. We didn't have very much experience (Delwyn more than Andy or me), and we didn't really have a clear vision of what exactly we expected to do. We, however, were aware of several non-trivial things: (1) Caltech as an institution needed a paper that covered the entire campus, (2) Caltech as a ranking academic power required a paper that matched its stature, (3) changes within the Tech had to be done fast, hard, and decisively, and (4) that we as editors would have to make the first steps, since nobody was willing to initially help us out.

Well, we didn't exactly fulfill any of these expectations—like Dickens' tale, we were somewhat outmatched by the magnitude of the task. Personally, if I had been aware of how much work it was going to take to get a decent 12-page issue out on a weekly basis, I would have seriously thought twice about it. The little maxim is true: "The position of Tech editor is generally not thought to be a boon to the GPA."

In retrospect, the California Tech still does not cover the entire campus in any acceptable degree, it does not even approach the stature of the campus, it is a stubborn mule to force march, and is an unpredictable beast of demanding nature. If we were to be graded by any professor on this campus, we failed. Big time—"Nice work, but doesn't get the cigar." Oh well, like Leonidus, we tried and did our best.

But this isn't to say that we didn't have fun. Our trio of amateur journalism has nevertheless managed to inject some adrenaline into this student body. Judging from the letters (which skyrocketed near the end of 3rd term, '91), I am either a "mental midget," or an effete snob sounding like an "exploded thesaurus." In addition, I have "little or no useful writing abilities," I "do not express well," and "deserve to be placed under faculty review." Right on. Like Roy Batty said: "Yeah! That's the spirit!"

Moreover, this paper has seen more topics of serious nature covered in rational (or perhaps not so) manner than it has covered in quite a while. Which is good...Come on, you mongrels, exercise your First Amendment rights, rock that boat, make the intellectuals work. Intellectuality is not synonymous with sloth—rather it is quite the opposite.

I hope that you, the readers, have increased in number. I hope that you, as members of this institution, have taken interest. And I hope, finally, that you will keep reading and also *writing*. An undergraduate newspaper that elects its editors and has no full-time writing staff requires the active participation of its audience, who more than ever becomes its blood and nourishment.

The three of us are graduating at the end of this year (Amen!), so you won't have us to kick around for too much longer. And as is always the case, we are sure to be rapidly forgotten...We, like the editors before us, will fade into nothing more than names on old scraps of paper. We, as it should be, will be nothing more than whispers in the shadows, dim reminders in the mind only once in a long while reheard or remembered.

Well, times change. Things move on. And life just keeps on movin'. Oh, and one last thing: DO NOT WRITE US IN.

Security Criticized

Dear Editors:

Caltech is one of the top research institutions in the world, but its research is in jeopardy every day. Not because of a lack of government funds, but because our labs and offices are not secure. We often joke about how ineffective Caltech security is, but it is really a serious matter.

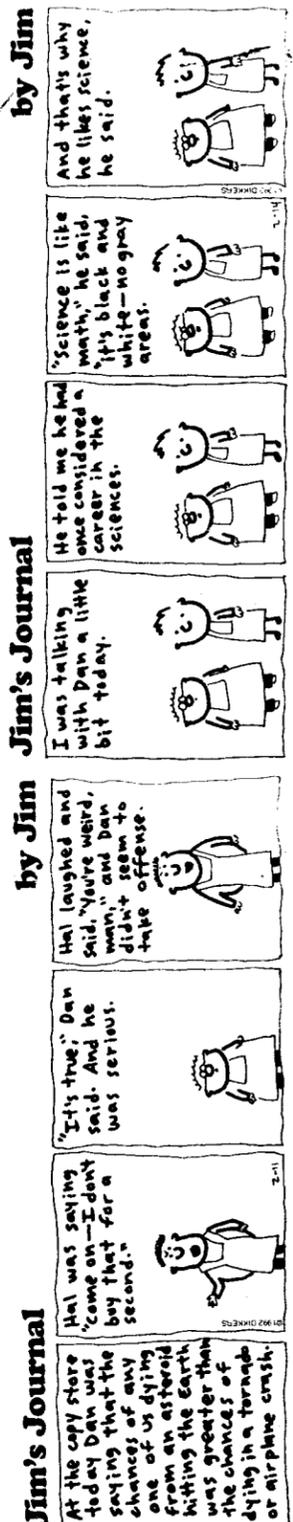
When we read in the crime and incident beat that a computer was stolen, or an office was broken into, we must realize that the monetary value of the physical equipment may be very small in comparison to the value of the research data that may have been on the hard disk of that computer, or in the books that were stolen. Random theft is one type of security problem that we have here, but there is another, more important one. That is the premeditated destruction of laboratory equipment and data by such groups as PETA (People for the Ethical Treatment of Animals). These groups ransack laboratories they feel are responsible

for cruel treatment of animals, destroying equipment and stealing lab notebooks. We, I think, would be considered a prime target for these attacks, as we have excellent name-recognition. Caltech security has a hard enough time preventing amateur crime, let alone professional terrorist attacks.

It has been my personal experience that Caltech security is ineffective and incompetent. The officers I have encountered do not even know the names of the buildings on campus. They seem to be more concerned with writing parking tickets than with protecting the campus. As an example, I noticed in one crime and incident report that a suspect was escorted off campus for putting flyers on windshields in the Business Services parking lot, while the same day, two cars were stolen from the same place. Caltech security cannot possibly, I feel, contend with an attack from an animal rights group.

We hold the freedom we have here at Caltech very sacred, but we must have increased security presence to protect it.

John Krowas
Box 818



FRIDAY NIGHT ASCIT MOVIE
With: Bugs as Shakespeare

M E L G I B S O N
HAMLET
G L E N N C L O S E

Next Week: Terminator 2

Baxter Lecture Hall
7:30 and 10:00
\$1.50 for A.S.C.I.T. \$2.00 for non-A.S.C.I.T.

TAX SEMINAR

\$ \$

When: Friday, January 31, 1992

Time: 12:45 pm - 2:00 pm

Where: Room 22 Gates

A representative from the Internal Revenue Service will be available to answer tax questions for U.S. Citizen/Permanent Resident and International students.

For more information call

Graduates: X6346 Undergraduates: X6280

Research Fellows: X6306

THE CALIFORNIA TECH
Volume XCIII • Number 13
January 24, 1992

EDITORS
Andy Crews
Delwyn Gilmore
Jon Liljeblad

CRIME BEAT & PHOTO EDITOR
Rajan Ranga

WRITERS
Jim Caron
Shane Sauby

BUSINESS MANAGER
Sonny Arcilla

CIRCULATION
John Grade
Jennifer Wright

THE CALIFORNIA TECH
Caltech • 40-58 SAC
1201 East California Boulevard
Pasadena, California 91125
(818) 356-6154

Published weekly except during examination and vacation periods by Associated Students of the California Institute of Technology, Inc. The opinions expressed herein are strictly those of the authors. Letters and announcements are welcome. All contributions should include the author's name and phone number and the intended date of publication. The editors reserve the right to abridge and edit all submissions for literacy, expediency, or anything else. Turn in copy (preferably on Macintosh 3.5 inch disk) to the Tech mailbox outside SAC room 40. The deadline for copy is Wednesday at noon; for announcements, Tuesday at 5 PM.

The California Tech is distributed free. Issues will be mailed off-campus upon receipt of \$10 per year to cover third-class postage and preparation costs.

Printed by News-Type Service, Glendale.
ISSN 0008-1582

Editorial —Delwyn Gilmore

The Calculus of Getting Shafted

Several of us undergraduates were sitting around talking the other day when the topic came around, as it so often does, to housing. What exactly does the Housing Department do with our money? We certainly couldn't see obvious signs of our dollars in the structure around us. In Ruddock House alone, which is probably typical of the North Houses, I can count dozens of repair problems. Most of these problems are not too irritating at first. But when you add in the months and even years of effort that students must go through in order to get these problems corrected, it begins to pile up. Recently, an undergraduate room in Ruddock was declared uninhabitable by Housing, due to years of water leakage through the wall from the adjacent bathroom. The oft-heard refrain is "We'll take care of that in the renovations."

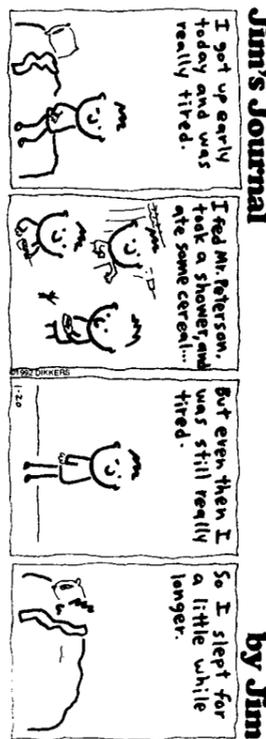
Frankly, I doubt it. Now, I'll admit that this next section is the product of educated guesswork. You see, the students who pay some 1.125 million dollars to Caltech for on-campus housing each year aren't allowed to see even an outline of the Housing Department budget. So, here are my estimates, in which I believe that I give the administration the benefit of the doubt more times than they deserve. I'd say there may be 20 custodians for the housing complexes. Give them, say, thirty thousand dollars for a nine-month school year. Then let's budget 100,000 dollars for upkeep, although I think this is probably an order of magnitude too large. Budget another 100,000 for utilities (there are considerable savings realized here, since ten to twenty percent of the fixtures may be out of order at any time). This leaves about a third of a million dollars. I guess this goes into that wonderfully nebulous category of "overhead." Stanford has shown the world how well overhead may be used.

I reach a few tentative conclusions from these back-of-the-envelope figures and my four years of experience at Caltech. First, if I assume that there isn't any significant amount of graft or embezzlement, then there is a great amount of incompetence somewhere. It's probably not Housing alone. I think some of the blame must lie with the Physical Plant departments who are unable to fix a malfunctioning fan switch within five months, or a leaking shower within five years. Perhaps it would be cheaper and more efficient to hire outside contractors. Second, I don't think that renovations are going to vastly improve the living conditions in the North Houses. I would be surprised if, in the end, more than cosmetic changes are made. A little paint, a little carpet, voilà! Yeah, right. The infrastructure which let the buildings decay to their present state will not even be able to keep these feeble improvements in shape for long. Five years, six million dollars in room payments, and all will be as it is now, if that good.

One last thought before I finish my last editorial. Is the condition of the student houses important to Caltech? It doesn't seem so from the attention they receive, but talk to someone in Admissions and you might get a different opinion. From what I've seen in the last couple of years, Caltech is going to have more and more competition in the coming years - not from MIT and the Ivies, but from state universities across the country. More and more states are trying to keep their best and brightest close to home. They are offering them full scholarships, great housing, and the opportunity to work with top-notch professors on a closer basis than they could here. This kind of wining and dining says to the students, "You are important to us." It gives them self-esteem, and they may well learn as much or more than their bitter peers who chose to go to Caltech, where they are told, "You should be grateful for being allowed to learn here, so don't ask for anything else."

Which would you choose?

P.S. As a certain damn Yankee named Sherman once said, "If nominated, I will not run. If elected, I will not serve."



Poll #2: The Outside World

1. If George Bush was willing to run with a Democratic vice-President, would you be more inclined to vote for him? [What? - Ed.]
2. Do you favor the idea of term limitations, which would prevent some of the power accumulation that has occurred in the Congress, but might hinder its smooth operation by elder statesmen?
3. Do you think that recent scandals (The Keating Five, BCCI, Savings and Loans, etc.) are indicative of the corruptness and ineptitude of our present government or just the aftermath of the free spending decade of the 1980's?
4. Are you willing to elect a president who will raise taxes, but improve conditions in the U.S. with the money gained by them?

Status: Undergraduate Graduate Faculty Staff
 Sex: M F
 Years at CIT:
 Return to "OUT" box at old undergraduate mailboxes, or mail to 40-58 SAC.

Results of Poll #1

The poll results are in and they say: You don't care. Of the eight hundred undergraduates, of which nearly five hundred live on campus, I received twelve responses. This is pathetic, but not surprising.

After three years here I have come to determine that the overriding feeling among the students is apathy. If it does not involve their homework or a grading policy, they wouldn't give a damn if it killed the guy across the hall, as long as it leaves them alone. If they can ignore it, or it might take some effort to deal with it, they will follow the path of least resistance.

Well, "it" is killing all of you, including the twelve people who were kind enough to respond. The apathy and "I don't give a damn" attitude is what has allowed Interhouse to be lost almost for good. It has allowed the administration to add more rules and regulations to what we want to do and what we think is reasonable. It has prevented the students from getting anything they wanted that was of real importance for the past three years. It has resulted in the general downhill progression of life at Caltech, both socially and academically.

I am graduating this year, and boy am I happy to go. In the coming years, this place is going to get worse and worse. The housing and board situation will not change, Interhouse will not comeback, and eventually most activities of any interest will occur off-campus for those that can get there. Caltech will die, and the undergraduates will all stand around the grave and wonder if they can get their homework done on time.

As for results, of the twelve responses, four said NO and eight said YES. Only two women responded, both voting YES. As for a class breakdown, two of the NO's were sophomores, and the other two were seniors. Given the chance to express your feelings and thoughts, with a minimum of effort, the campus still failed to even register a heartbeat.

Shane Sauby



MANDARIN CUISINE AND SEAFOOD

LUNCH SPECIAL

Choice of 13 entrees 11:30 a.m.-3 p.m. from **4.25**

EARLY BIRD DINNER SPECIAL

Choose from 13 items 3-7 p.m. DAILY ONLY **5.75**

CLASSIC DINNERS

Two-Star Award Winner Sunday-Thursday 3-10 p.m.
 by the Southern California Restaurants Association Friday-Saturday 3-10:30 p.m.
 Between Altadena Dr. & Sierra Madre Blvd.

2475 EAST COLORADO BLVD., PASADENA

FOR RESERVATIONS: (818) 449-8018

Open 7 Days • Cocktail Lounge • Food To Go Orders Welcome • Free Parking in Rear

LAEMMLE THEATRES

ESQUIRE

2670 E. Colorado Blvd.
(818) 793-6149

David Cronenberg's

Naked Lunch

Daily 5:00, 7:30, 9:45 p.m.
Sat-Sun Matinee 2:30 p.m.

COLORADO

2588 E. Colorado Blvd.
(818) 796-9704

Hear My Song

Daily 4:30, 7:00, 9:15 p.m.
Sat-Sun Matinee 2:00 p.m.

CLASSIFIED ADS

JOB OPPORTUNITIES—

ADVERTISING SALES REPS wanted for small campus newspaper. Caltech students preferred. Will train! Call ext. 6154 or see display ad with meeting announcement.

SERVICES—

GRAMMAR & LANGUAGE SPECIALIST. Leave it all to me. Get help easily & reasonably. Personal & unusual business letters. Individual contracts. Sonnets & jingles. Help with individual research. No job too great! Call (818) 287-2011.

RATES— \$4.00 for first 30 words; 10¢ for each additional word. Send written ad with payment to 40-58. Deadline is 6 p.m., Monday before issue. No charge for on-campus lost & found.

CALTECH public events

MICHAEL ICEBERG
and His
Iceberg Machine

SATURDAY, JANUARY 25, 1992 / 8 P.M.
BECKMAN AUDITORIUM

TOMORROW!



"The most sensational music machine of the century."

—Musician Magazine

"Absolutely sensational!...something that doesn't exist anywhere else in the world."

—Johnny Carson

Hear the music of Gershwin, Sousa and Andrew Lloyd Webber like you've never heard it before, played by the Master of the synthesizer!

Program includes:
Chariots of Fire
 Theme from "The Phantom of the Opera"
 Disney's Main Street Electrical Parade
 William Tell Overture
 Stars and Stripes
 and more!

Tickets: \$25.00 - 22.50 - 20.00

CIT Students: \$7.50

Call x4652 or visit the Caltech Ticket Office.

Statements

ASCIT President

Amitabh 'Amoeba' Mehra
I will fix the ASCIT copier!! I know that sounds like a campaign promise, which it is, but it will be one of the first items on my agenda if elected ASCIT president. Many of the present freshmen and sophomores have never even heard of the copier. Well, it used to work back when I was a freshman, and it had high usage, since it was conveniently located in the S.A.C. However, at some point the card reader was stolen, and it has never been replaced. I feel that Caltech undergraduates deserve a working copier, and I promise to do everything I can to get it up and running again.

I have worked pretty hard to try and make things as lively and enjoyable as possible for my fellow students. I am one of the principal organizers for the Boffo Boncrusher broomball tournaments (which by the way is Saturday night at approx. 12:15 at the Pasadena Ice Rink, plug, plug.) I have been involved in obtaining entertainment for Decompression. As Junior Class President I was principal organizer for this year's Mudeo, won by the sophomore class in the quagmire.

I have been involved in Ricketts' house activities as well. I have served on the house ex-comm. I am presently headwaiter of Ricketts' house. I have RF'd and been RF'd many times, and I have met many of you through interhouse athletic competitions. I have gone to the annual fund phone night for the past three years. I have helped build Apache. Sure I can be a bit obnoxious sometimes, but hey, the full brunt of a Caltech Academic onslaught can embitter a man. I feel that since I know a great many of

the undergraduates here at Tech, I can truly represent the student body, and if elected I will continue to try and improve the atmosphere and lifestyle of undergrads at Caltech.

Jason MacLeod

I came here as a freshman having never been involved in my school's student government. Some friends convinced me to run for office, and ever since then I have been actively involved in Caltech's student government. Over the past two and a half years, I have held the ASCIT offices of freshman director at large and secretary.

I have watched two different ASCIT presidents at work directing the energy of the members of the BOD, and I feel that I have learned a lot about the interpersonal relationships that are vital to a working BOD. I also feel that playing on the basketball team for three years has helped me prepare for the job of president. I have learned to communicate my ideas and work together with others to achieve goals common to a group. I would like the opportunity to continue working to make life here at Tech more livable.

If elected, I plan to bring ASCIT sponsorship to more campus social events that don't follow the traditional 'party' format. I would like to see more direct ASCIT involvement in student activities, and more activities that encourage interaction with graduate students. I would also like to encourage awards like the Fun Fund that support people getting away from school to enjoy themselves. I know that student involvement is hard to come by, especially at our school, but I am ready to work toward improving student life here at Caltech.

ASCIT V.P. / BOC Chair

Michael Nassir

I have come to value our Honor System as the most enriching, yet most challenging, part of being at Caltech. Initially, it was a factor that attracted me and many others to our school. It is perhaps the most important part of our education, creating an atmosphere of cooperation and trust that we will carry into our careers and lives. The Board of Control was formed to help maintain, and in some cases, protect the rights of the community under the Honor System. I treasure the many privileges that we have under the Honor System, and as chair, I intend to do my best to preserve them.

In the past, I served for one year as the Board of Control representative from my house and for a second year in the positions of Board secretary and chair. I have worked on many different cases and Honor System issues during my time on the Board, and this experience will be important as the Board gains a new batch of representatives and as our administration changes over to a new dean. In addition, my involvement in ASCIT affairs over the past two years will help me to contribute to the ASCIT Board of Directors and to make informed decisions.

I believe that the Honor System can never be perfect, nor should we expect it to be; as people, we will always make mistakes. However,

the Honor System, to the best that we can implement it, was created to benefit those who study, work, and live at Caltech. As chair of the Board of Control, I will do my best to uphold this spirit of the Honor System with integrity and fairness.

Nathan Frei

On Monday, I will be running for the office of ASCIT Vice President and Chairman of the Board of Control. I believe that I am the best person to lead the Board at this time, and I am willing to put in the time it will take to do the job well.

This will not be my first experience with the Board of Control. Serving as a house BOC Rep for a year proved to me that the Honor System is still alive and functioning. It takes hard work to keep it that way, though, and the Board cannot do it alone. The Honor System will only survive if everyone at Caltech tries to be mindful of what the responsibilities are that go along with the privileges of living under our system. In that vein, I'll try to continue the efforts of previous Boards to educate the community, and I'm always open to suggestions about how to reach more people.

If I am elected, anyone who has dealings with the Board can be assured that I will continue the Board's tradition of giving everyone a fair shake and treating them with trust. Vote for me, Nathan Frei.

Tech Editors

**Rajesh "Q" Bilimoria
Michael Oder
Christopher Orth**

In a few weeks you could see a new, better *Tech*. All you have to do is vote for us. If you give us the opportunity to print the *Tech*, we will redesign its layout; the *Tech* will be consistent from week to week. A quick and easy index will allow you to track down your favorite sections. New features you will find include more extensive sports coverage, an entertainment section, including reviews of new movies and music, and more photos in every issue. Inside Worlds will continue to reside in their own section of the paper. In addition, we are considering several ideas, like starting a news group on the net and E-mail submissions, to facilitate discussions of issues relevant to the community.

You may ask what makes us qualified to bring about the above changes. The answer is our experience. Q has three years of electronic typesetting and layout experience, in addition to several years of black and white photographic experience. Mike has three years of layout and writing experience. Chris has three years of layout and copy experience. The goals expressed above are within our reach. We are juniors who have the time and ability to make the *Tech* a better paper.

You've read our story, now it's your turn. Make the decision: vote Rajesh "Q" Bilimoria, Mike Oder, and Chris Orth for *Tech* editors.

**Zack Berger
D.A. Kornreich**

We, Zack Berger, and D.A. Kornreich, would like to be the next editors of the California Tech. Our goals are clear and simple. We want to publish a better paper, with more articles related to the everyday life of the Techer, more and better entertainment reviews, and comprehensive, comprehensible pieces.

We want to do what editors are supposed to do and bring the printed material to the level of quality which any Techer, or any reader for that matter, should expect—and we want to involve the Caltech student body in actively writing the *Tech*. More than that, we want to make the *Tech* a paper in which every reader becomes interested in at least one article. In short, we wish to make the *Tech* an active paper again in which there exists that fundamental relationship between the editors and the readership which comes with publishing any respected newspaper.

With these goals in mind, we hope you will elect us to the position of editors for the California Tech.

Zack Berger
D.A. Kornreich

We need you.

American Heart Association 



THIS YEAR A LOT OF COLLEGE SENIORS WILL BE GRADUATING INTO DEBT.



Under the Army's Loan Repayment program, you could get out from under with a three-year enlistment.

Each year you serve on active duty reduces your indebtedness by one-third or \$1,500, whichever amount is greater.

The offer applies to Perkins Loans, Stafford Loans, and certain other federally insured loans, which are not in default.

And debt relief is just one of the many benefits you'll earn from the Army. Ask your Army Recruiter.

1-800-USA-ARMY

ARMY. BE ALL YOU CAN BE.

Sonny Hughes

Nippers

... "It's a Salon"

Caltech,
Thank You
for Your Support

Continuing Special
Discounts for our
Friends at Caltech

Corner of Lake and California

(818) 304-9768

The Inside World

Inside World Policy:

All Inside Worlds must include the author's name. Inside Worlds can only be written by current undergraduates. The editors reserve the right to edit any or all parts of an Inside World. No libelous material will be accepted. It is the author's responsibility to check material written about a person to see if they consider it libelous. Please submit a 3.5 inch Macintosh Disk by 8:00 PM Wednesday.

This Week's **Inside World** was written by:

Dabney: Stephen Thompson
Lloyd: Jen Yu and Jen Remine

Blacker	0	0
Dabney	1	2
Fleming	0	0
Lloyd	2	1
Page	0	0
Ricketts	3	0
Ruddock	4	0

2 nd	1 st
0	3
3	12
0	17
3	11
0	10
3	8
4	9

LOYD

"1991 Excomm", the cast behind it all.

"1991 Excomm" is a very turbulent melodrama. Although it was poorly executed, there are occasional high points scattered throughout the film. Despite the fact that this was her first leading role, Ms. Smyth exceeded all expectations of evincing strong emotions in the viewing audience. However, we feel that she has had better performances in the past. The first leading man, San Dandoval, was offered a less demanding role in a more congenial environment midway through the filming. He left "1991 Excomm" for the sweeter deal, which was considered in the best interest of the movie. It was feared that his outstanding talents would dominate over the key figure, Ms. Smyth. The leading lady, on the other hand, forsook a similar opportunity with an East Coast based company. The new leading man, Rob Ricky, was almost too zealous in some scenes, but his strength of character did not diminish the quality of the movie. He is now considered the biggest teen heart throb since Brandon Walsh. The world renowned supporting actress, Jen Lyord, performed admirably, but seemed to lose heart towards the conclusion of the film. It was rumored that this was due to a controversy revolving about the issue of dressing room assignments. "I'm the most experienced person on this set. The petty issue of dressing rooms makes me wonder where this industry is going." The other supporting

actress, Audry Ming, about the same time that San Dandoval left, withdrew from the movie to pursue a family life at her Del Mar estate. Due to her withdrawal, the script was changed. Her character was rewritten in a more masculine form, and was filled by Joey Louder. This was one of the best performances in the film, which garnered him an Oscar nomination. There were other notable performances in addition. Martini Lice, the heavy metal rock star, tried his hand at acting for the first time. He took his part seriously and played a convincing drug pusher. Considering the enormous budget and the big names that the film started with, it is definitely a disappointment. The cast tended to act more as individual actors and less as the characters in the movie. Overall, it rates ☆☆ at best, a mediocre attempt that

fe. ll short of what could have been a hit for the year.

Jim's Journal

I was woken up today by the phone ringing.

It was somebody I didn't recognize saying, "Al—you slept in, huh, ace?"

After that, I tried to get back to sleep, but couldn't.

Mr. Peterson was scratching the wall, something was tapping on the ceiling—every little noise seemed extra loud.

©1991 DIKKERS

I slept in late today and felt really tired.

11-20

Jim's Journal

by Jim

Today Steve came over and said, "Happy birthday, Jim," and handed me a present.

I told him it wasn't my birthday today and he said, "Yeah, well, here's a present anyway."

crackle
scrumple
vip

It was an address book.

©1991 DIKKERS

Jim's Journal

by Jim

Today I felt like eating a fried egg.

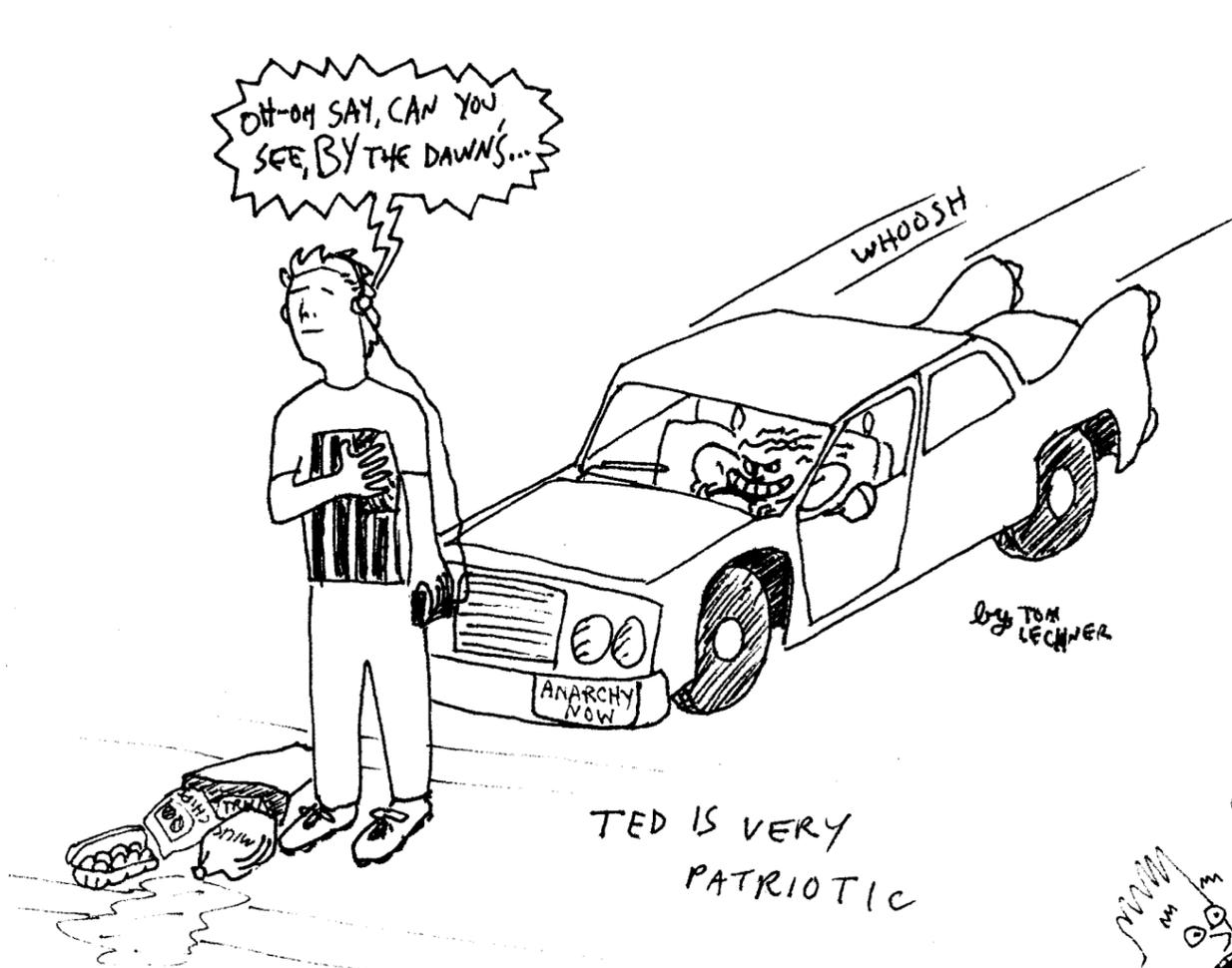
It'd been so long since I had a fried egg that for a second I couldn't think of how to make one.

But it was only for a second.

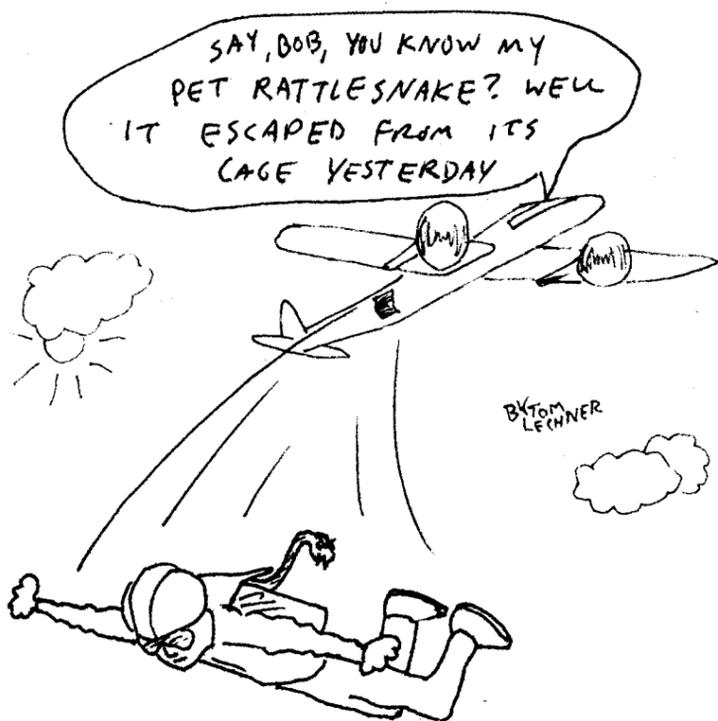
Once I realized I knew how to do it, I knew it was really easy.

©1991 DIKKERS

OLD



JEFF REMEMBERED TOO LATE THAT HE FILLED HIS TUB WITH MAN-EATING PIRAHNA FISH THE PREVIOUS NIGHT



Jim's Journal



Jim's Journal



by Jim

by Jim



CARTOONS

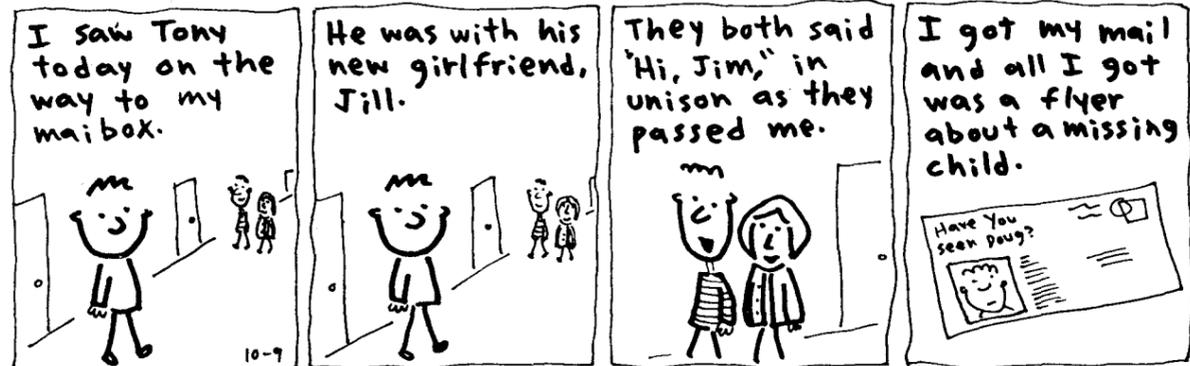
Jim's Journal

by Jim



Jim's Journal

by Jim



"I SHOULDN'T HAVE HAD THAT SECOND CUP," THOUGHT JOHN

Jim's Journal

by Jim



Jim's Journal



Jim's Journal

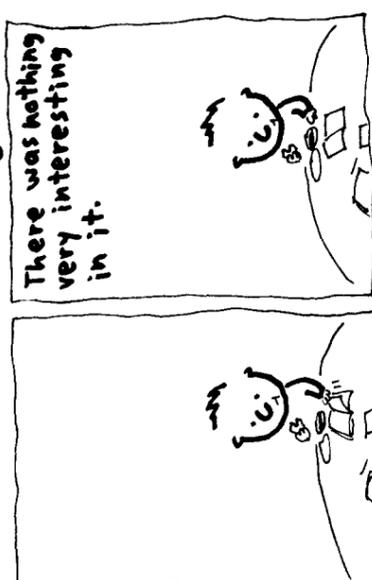
by Jim



Jim's Journal



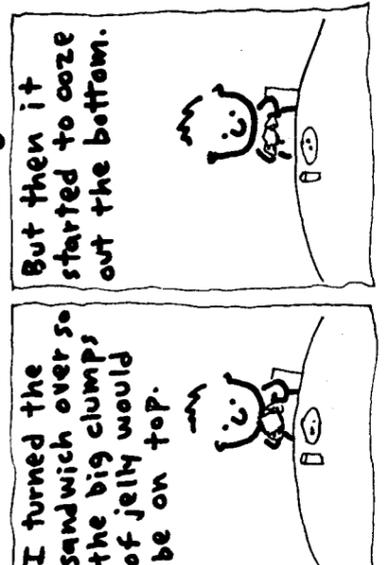
by Jim



Jim's Journal



by Jim

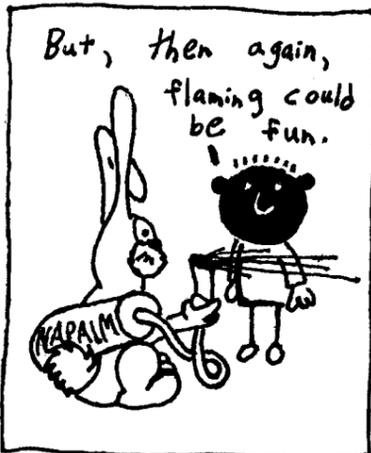
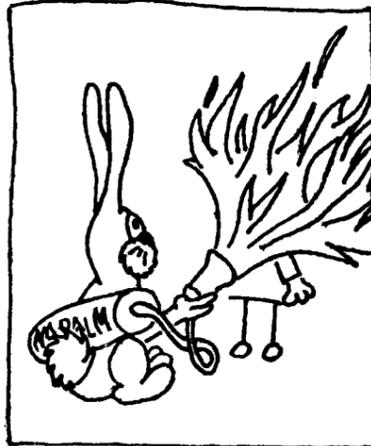


DABNEY

SHE'S HUGE!



thumper! -n-
NAPALM



by STEPHEN THOMPSON

Jim's Journal

by Jim



Jim's Journal

by Jim



Jim's Journal

by Jim



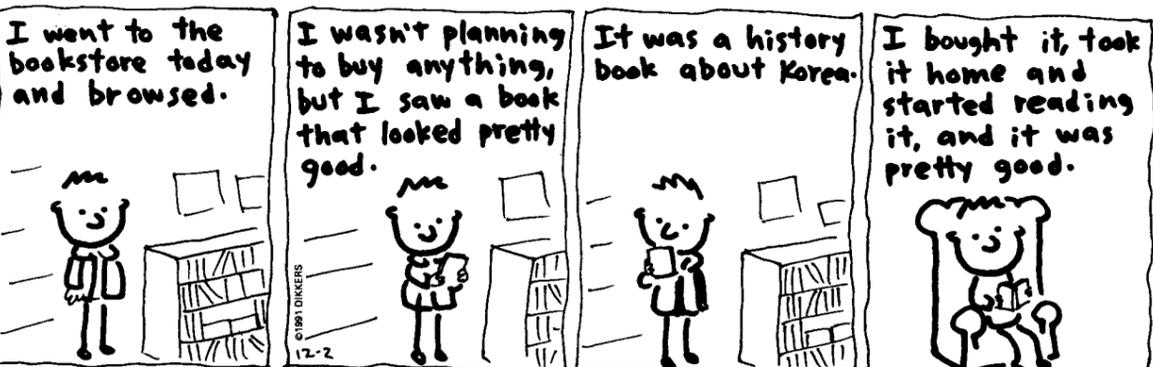
Jim's Journal

by Jim



Jim's Journal

by Jim



ENTERTAINMENT

"Queen" Visits Caltech

By Varoujan Gorjian

Yes, this Sunday at 7:30 and 10:00 pm in Baxter Lecture Hall the Caltech Film Club will present "The African Queen", another in its continuing series of classic films.

This movie stars Catherine Hepburn and Humphry Bogart as two lone souls who take a journey down a river in Africa. During that journey they encounter many dangers, including romance. Bogart won his only Oscar for his role in "The African Queen."

Directed by John Houston, this movie has the distinction of having its making chronicled in detail in a book called "White Hunter, Black Heart," which was itself made into a movie starring Clint Eastwood as John Houston. Houston wanted to go to Africa and hunt and this movie offered him the opportunity to do just that. It is amazing that with all that was going on, the movie turned out to be a triumph for all concerned.

If you are interested in seeing or making movies, then come to one of the Film Club's meetings. They are held on alternate Wednesdays, and our next meeting is on January 29.

In two weeks: "Stella!!!"

Caltech Winter Music Calender

The Caltech music scene promises to be exciting for the remainder of the winter, with a slew of performances scheduled within the next two months. The variety is wide enough to cover many tastes—works by composers such as Schumann, Martinu, Beethoven, Mozart, Artie Shaw, and Count Basie are being rehearsed.

For tickets, times, and information, contact (818) 356-4652.

Jan. 24, 8 PM, Dabney Lounge:

Schumann's Quartet for Piano and Strings; Martinu's Trio for Flute, Cello, and Piano; Hummel's "Military" Septet.

Jan. 27, 8 PM, Dabney Lounge:

Featuring woodwind ensembles, with music by Beethoven, Ibert, Bloch, and Kuhlau.

Jan. 31, 8 PM, Ramo Auditorium

Chamber music with music by Telemann, Boismortier, Mozart, and Beethoven.

Feb. 1, 8 PM, Dabney Lounge

Schumann, Beethoven, Schubert.

Feb. 7, 8 PM, Beckman Auditorium

Big band jazz night, featuring Artie Shaw and Count Basie.



Humphrey Bogart and Katherine Hepburn star in one of the romantic adventures of all time. 1951. Showing Sunday, January 26, at 7:30 and 10:00 in Baxter Auditorium. Admission: \$1.50 Sponsored by the Caltech Film Club. Meetings for the the film club are held every other Wednesday evening in SAC room 35 at 8:00. Next meeting is January 29.

This Week

Gathering of the Clans

The Ambassador Foundation will present a return engagement of The Gathering of the Clans, A Highland Fling of Scottish Music, Song and Dance, at the Ambassador Auditorium in Pasadena on Saturday, January 25, at 8:30 PM.

Tickets are \$23.50, \$22.50, \$20.50 and are available at the Ambassador Ticket Office, 300 W. Green St., or by calling 1-800-CONCERT or (818) 304-6161.

Vertigo and Black History Month

Vertigo announces the January 29 premier of "Global Beat" in celebration of Black History Month. "Global Beat" is L.A.'s newest Wednesday night dance party featuring live world beat and pop culture music performed by the Magyk Band.

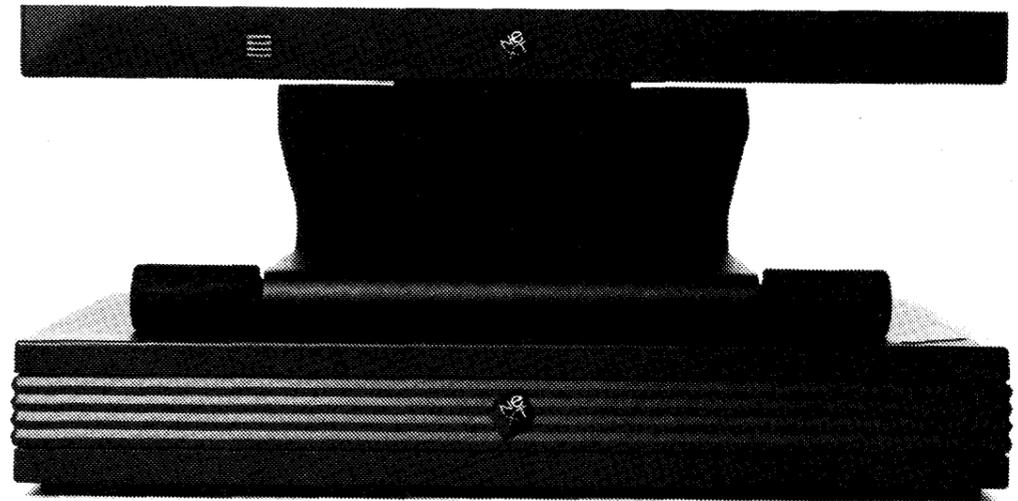
On the elite special events list are celebrities such as Eddie Murphy, Mick Jagger, Lionel Richie, Christian Dior, Smokey Robinson, Magic Johnson, Elton John, Giorgio Armani, Rod Stewart, and more.

"Global Beat" continues every Wednesday during February, Black History Month. Doors open at 10 PM, 21 and over. Vertigo is located at 333 S. Boylston St. in downtown Los Angeles. For information call (213) 882-4486.

Volunteer.



American Heart Association



OUR WORKSTATIONS HELP YOU MASTER EVERYTHING FROM MATH TO SCIENCE TO MUSIC. BUT COME FEBRUARY, OUR DISCOUNT WILL BE HISTORY.

NeXTstation™ computers are extremely fast and powerful workstations. But you'll have to be fast yourself to take advantage of our special holiday savings, because they end January 31st.

Even without savings, the price/performance of these workstations is unequalled anywhere in the industry. They offer features like an easy-to-use graphical interface, 8MB of RAM, enormous disk storage, a standard UNIX® operating system, true multi-tasking, and a 15MIPS CPU. They also have built-in Ethernet networking, a large

SAVE \$150

NeXTstation
400MB HD

SAVE \$200

NeXTstation Color
200 or 400MB HD

SAVE \$100

NeXT 400 dpi Laser
Printer

monitor with true display PostScript®, and a built-in DSP chip for CD-quality sound.

They're ideally suited to every kind of academic work—from computation-intensive math and science projects to report writing, complicated research, in depth analysis—and yes, even composing music.

That's partly because the best versions of many industry-leading software products are the ones written for NeXTstations. These products include WordPerfect®, Adobe Illustrator®, Lotus® Improv™, Soft PC®, and a great many more. *Mathematica*®, the acclaimed numeric-processing software, is even included free.

Given all this, about the only way we could improve the price/performance of a NeXTstation is to make the price lower. Which is just what these special savings do.

We recommend you visit your campus reseller today—before this offer becomes ancient history.

©1991 NeXT Computer, Inc. All rights reserved. NeXT, the NeXT logo and NeXTstation are trademarks of NeXT Computer, Inc. All other trademarks mentioned belong to their respective owners.



Campus Computing Organization
Jorgenson 158-79
818-356-4612



The Haircutters

STUDENTS — GET \$4.00 OFF WITH THIS AD

Shampoo, Style Cut

MEN Reg. \$20.00 NOW \$16.00
WOMEN Reg. \$25.00 NOW \$21.00

449-6967

1009 E. COLORADO · PASADENA

Offer valid only Monday-Friday, expires June 30, 1992

Golf Ends 11 Year Streak

Tech Reporter (TR) - Captain Craig said you wanted to see me.
 Coach (C) - Don't you mean you want to see me?
 TR - 'Bout what?
 C - 'Bout what! 'Bout the STREAK.
 TR - What streak?
 C - What streak!
 TR - I thought I said that.
 C - The Caltech golf team annihilated Oxy on Monday, breaking an eleven year losing streak.
 TR - Eleven years?
 C - We were in a bit of a slump.
 TR - A bit?
 C - I thought I said that.
 TR - How does one lose every match for eleven years?
 C - Extraordinary consistency I think.
 TR - Can you highlight this great victory for the Tech?

C - Well, Long John Trevor had four OB's [out-of-bounds] on the front nine and still broke fifty.
 TR - That's a highlight?
 C - Try it sometime.
 TR - and...?
 C - Captain Craig had three OB's on one hole and he didn't have to count it because it got dark before the last group reached that hole and he was able to par in.
 TR - So he lucked out.
 C - We would have won anyway.
 TR - Anything else?
 C - Max couldn't sink a putt and still shot an 88.
 TR - So he's a lousy putter.
 C - The greens were difficult.
 TR - Is there more?
 C - Well, Tim had dislocated his shoulder and still shot an 86. Erik showed great versatility in moving

his scores between birdie and quadruple bogie.
 TR - So Erik's erratic.
 C - Do you work at this or does it come naturally?
 TR - At what?
 C - Never mind. Oh, and don't forget Stick. He scored a nine and an eight on two holes and still shot a ninety.
 TR - Stick?
 C - Brian, and don't ask.
 TR - So what are you going to do for an encore?
 C - Well, we're going to play them one match at a time.
 TR - Slick.
 C - Thanks.
 TR - Be sure to let know if you have any more good news.
 C - Right.

Caltech's ACU-I Team

The Association of College-Universities-International (ACU-I) holds a tournament in all sorts of semi-sports each year. A huge number of colleges across the world participate in this event. The first round of the tournament takes place on each campus; individual institutions thereby choose their team. The second round is regional-level competition. Ours, this year, is held in Sacramento during the last weekend in February. Fifteen regions comprise the US and Canada. The winners of the regionals participate in an international final.

This year, Caltech participated after a long absence. We chose our team December 7. The winners were:

- Bridge: 1st: Willy Watson, Phil Cofield, Dan Weaver, Dan Smith
 2nd: Jeff Goldsmith, Bobby Bodenheimer, Fred Upton, Brian McAllister
- Chess: 1st: Phil Cofield
 2nd: Jimmy Yee
 3rd: Albert Ratner
- Pool: 1st: John Salmon
 2nd: Dan Kollmorgen
 3rd: Tim Nelson
- Table Soccer: 1st: Rob Rickenbrode, Nathaniel Heiter
 2nd: Albert Ho, Rich Chiu
- Table Tennis: 1st: Hou-min Lin
 2nd: Phil Lovalenti

Next year, we would like to participate in a few more events, including "College Bowl," a jeopardy-like quiz game. If you are interested in helping run a College Bowl tournament, or any of the others, please call Jeff Goldsmith at 2818 or Chris Sundberg at 6163. Thanks!

Funding was generously supplied by The Service League, The Y, ASCIT, The Director of Residence Life, The GSC, and the Athletics Department. Thank you all.



Security tip: Look out for the security tip, 12/27 A computer, keyboard, and mouse are missing from 170A Jorgensen. There is no evidence of forced entry. The equipment was believed to be stolen between 5 PM and 8 AM on 12/30. Value: \$4280

1/8 The victim parked his car in the Tournament parking lot between 8 AM on 1/8 and 11:11 AM on 1/13 during which an AM/FM radio/cassette player was stolen from the car. The passenger side window of the car was broken. Value: \$100

1/9 The victim parked his vehicle at the east side of the Chester parking lot between 7:30 AM and 11:45 AM. When the victim returned, he discovered that the vehicle was missing. There was no evidence of forced entry. Value: \$6000

1/9 At 10:25 PM, an alarm from the emergency telephone on the Olive walk was received. Security officers were dispatched to the scene. When they arrived, they observed that several people were throwing oranges at the booth. Then the group started to throw oranges at the officers. When the officers turned the spotlight on the group, the group ran into the Flemming house courtyard. The officers entered the courtyard and asked people if they saw anyone running through the courtyard. The people stated that they did not. The officers monitored the area for a while but, there wasn't further incident.

1/10 The victim parked and locked his bicycle in the rack in the Blacker house courtyard between 5 AM on 12/19 and 10 PM on 1/10. When the victim returned, he discovered that someone had cut the brake and shift cables and removed the handlebar.

1/10 Four people were observed skating between Page and Lloyd at 3:25 PM. They were advised that they were on private property and were escorted of campus.

1/10 The victim parked her vehicle on the street west of Braun lab between 3 PM and 10:15 PM. When she returned, she noticed that her rear window was smashed.

ASCIT Minutes

1/21/92

Present: Taletha Derrington, Jason MacLeod, Cathy Hafer, Debi Tuttle, Ari Kaplan, Won Bang
 Absent: Randy Stevenson, Dave Ross, Eric Stout

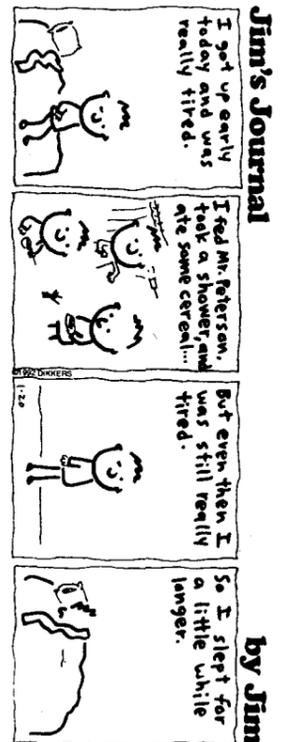
Business
 1. Big T - \$1000 more of the Big T deficit has been recovered. Now, it stands at approximately \$5000 that is unaccounted for, but that figure is continually getting smaller. The Big T this year will be slightly smaller than last years with only 288 pages.

2. Installations - Installations for the new ASCIT officers will be held on Monday, March 2nd at the Athenaeum.

3. The Tech - The salaries for the editors and business manager (Sonny) were approved for the first two issues of the term.

4. Elections - I'm running for ASCIT President - look for my statement in this week's Tech!

Jason MacLeod
 ASCIT Secretary



Jim's Journal

by Jim

Pasadena Computer Center

Office Hours: Mon.-Fri. 9 a.m.-6 p.m., Sat. 10 a.m.-6 p.m.
 1756 E. Colorado Blvd., Pasadena Phone: (818) 568-1088 FAX: (818) 568-9132

286-16MHz, 52 MB HD and MULTISCAN SUPER VGA

- 1 MB RAM, up to 16 MB RAM
 - 1.2 MB & 1.44 MB High Density Floppy Drive
 - 52 MB Hard Disk, 17 ms built-in 32K Cache
 - Dual IDE FD/HD Controller
 - AT I/O: 2 Serial/Parallel/Game ports
 - 8 Expansion Slots
 - 101 Enhanced Keyboard, Real Time Clock & Calendar
 - Math Co-Processor Socket
 - Mini Tower Case with 200-watt Power Supply
 - 16-bit SuperVGA Card with 512K RAM
 - 14" Multiscan 1024 x 768 Super VGA Monitor, 0.28 mm dots
- SALE PRICE----- \$915.00

386SX-25MHz, 52 MB HD and MULTISCAN SUPER VGA

- 386SX-25MHz System
 - 1 MB RAM, up to 16 MB RAM
 - 1.2 MB & 1.44 MB High Density Floppy Drive
 - 52 MB Hard Disk, 17 ms built-in 32K Cache
 - Dual IDE FD/HD Controller
 - AT I/O: 2 Serial/Parallel/Game ports
 - 8 Expansion Slots
 - Math Co-Processor Socket, Real Time Clock & Calendar
 - Mini Tower Case with 200-watt Power Supply
 - 16-Bit Super VGA Card with 512K RAM
 - 14" Multiscan 1024 x 768 Super VGA Monitor, 0.28 mm dots
- SALE PRICE----- \$1095.00

Look At Our Customers From....

- UCLA
- USC
- CALTECH
- JPL
- PARSONS
- CITY OF LA
- CITY OF HOPE
- COUNTY OF LA
- OCCIDENTAL COLLEGE
- AMBASSADOR COLLEGE
- AME
- TICOR INSURANCE
- TL ENTERPRISES
- SUNBANK ELECTRONICS AND MORE

386-25MHz, 85 MB HD and MULTISCAN SUPER VGA

- 1 MB RAM, up to 16 MB RAM
 - 1.2 MB & 1.44 MB High Density Floppy Drive
 - 85 MB Hard Disk, 17 ms built-in 32K Cache
 - Dual IDE FD/HD Controller
 - AT I/O: 2 Serial/Parallel/Game ports
 - 8 Expansion Slots
 - Real Time Clock & Calendar
 - 101 Enhanced Keyboard
 - 80387 & Weitek 3167 Co-Processor Socket
 - Mini Tower Case with 200-watt Power Supply
 - 16-bit Super VGA Card with 512K RAM
 - 14" Multiscan 1024 x 768 Super VGA Monitor, 0.28 mm dots
- SALE PRICE----- \$1195.00

6 REASONS WHY PEOPLE CHOOSE PASADENA COMPUTER CENTER OVER THE OTHERS:

- 1: NAME BRAND COMPONENTS
- 2: UNBEATABLE PRICES
- 3: ONE YEAR PARTS & LABOR WARRANTY
- 4: DIRECT FROM FACTORY (NO MIDDLEMAN)
- 5: LIFETIME TECHNICAL SUPPORT
- 6: WE ACCEPT CUSTOM DESIGN TO FIT YOUR NEEDS

386-33MHz, 128K CACHE 125 MB HD and MULTISCAN SUPER VGA

- 128K Cache
 - 4 MB RAM, up to 32MB RAM on Board
 - 1.2 MB & 1.44 MB High Density Floppy Drive
 - 125 MB & 17 ms built-in 64K Cache
 - Dual IDE FD/HD Controller
 - AT I/O: 2 Serial/Parallel/Game ports
 - 8 Expansion Slots, Real Time Clock & Calendar
 - 101 Enhanced Keyboard
 - Middle Tower Case with 230-watt Power Supply
 - 80387 Co-Processor Socket
 - 16-bit Super VGA Card with 1 MB RAM
 - 14" Multiscan 1024 x 768 Super VGA Monitor, 0.28 mm dots
- SALE PRICE----- \$1595.00

386-40MHz (same as above) ----- \$1695.00

486-33MHz, 256K CACHE 212 MB HD and MULTISCAN SUPER VGA

- Intel 80486 Processor with built-in 487 Math Co-Processor
 - 256K Cache RAM
 - 4 MB RAM, up to 32 MB RAM on board
 - 1.2 MB & 1.44 MB High Density Floppy Drive
 - 212 MB Hard Drive, 15 ms built-in 64K Cache
 - Dual IDE FD/HD Controller
 - 101 Enhanced Keyboard
 - AT I/O: 2 Serial/Parallel/Game ports
 - Full Tower Case with 250-watt Power Supply
 - 16-bit Super VGA Card with 1 MB RAM
 - 14" Multiscan 1024 x 768 Super VGA Monitor, 0.28 mm dots (CTX 14" non-interlaced)
- SALE PRICE----- \$2295.00

One Year Parts and Labor Warranty.

Quality Minds Enhance Your Business.

Pasadena Computer Center serves for consultant, school and all business, offers Competitive Price & Quality Service. We also do Novell Networking Installation, System Integration and Database Design. Please call us at any time or visit our 3800SF showroom & Service Center. Thank you for your business.

LORENZO'S BARBER SHOP

Unisex Hairstyling
 Regular Cut (men) \$ 9⁰⁰ **\$1 off**
 Regular Cut (women) \$ 9⁰⁰ **\$1 off**
 Style Cut \$12⁰⁰ **\$2 off**
 Permanent Wave \$40⁰⁰ **\$5 off**

9 a.m. - 6 p.m., Monday - Saturday
 14 N. Mentor Avenue, Pasadena (818) 795-5443
 No Appointment Needed



SUN TUNG LOK RESTAURANT

3 Master Chef Specialities
 DIM SUM, SZECHUAUN, CANTONESE, SEAFOOD

Dim Sum Lunch
 Daily 11 am-3 pm

20% OFF with Caltech ID

OPEN Dinner Only Dine-In or Take-Out

7 DAYS 400 S. ARROYO PARKWAY

11AM-11PM Between California and Del Mar



584-6719
 584-6720

FREE PARKING
 IN PASADENA
 INN LOT



what goes on

Y NEWS

Scholarships

The Financial Aid Office has applications and/or information on the following scholarships. For a complete list of all scholarships check the bulletin board next to the bookstore or check the bulletin board in the Financial Aid Office. All qualified students are encouraged to apply. Our office is located at 515 S. Wilson, second floor.

The Society for the Advancement of Material & Process Engineering (SAMPE) is announcing its 1992 Undergraduate Awards Program for Engineering. Application packages must be submitted postmarked no later than Feb. 1, 1992.

The Society of Women Engineers is announcing its 1992 Spring Scholarship program. The scholarships are open only to women majoring in engineering with a GPA of 3.5. Applications, including supporting materials, must be postmarked no later than Feb. 1, 1992.

The annual **Mensa Scholarship Essay Contest** is here again. The essay should present clearly and concisely the applicants academic, vocational, and career goals. The only requirement is that the student be enrolled at an accredited college/university for the 1992-93 academic year. All entries must be postmarked on or before Jan. 31, 1992.

The Arizona Honors Academy is issuing a call for 5000-word essays on the topic: "Meeting the United States' Greatest National Security Challenges in the Coming Decades." The contest is open to undergraduates in any academic major who have completed at least 27 semester hours. Students must not have graduated prior to the end of Spring term of 1992. A completed application must be postmarked no later than February 1, 1992.

CESASC - Chinese-American Engineers & Scientists Association of Southern California will offer ten or more scholarships. Students must be full-time, have accumulated at least 36 quarter units, attained a minimum GPA of 3.5 and expect to graduate after May 1992. Complete application materials must be received by January 31, 1992.

Friday Prayers

Prayers organized by Caltech Muslim Students are to be held in the Caltech Y lounge at 12:30 PM. For further information, contact Asim Mughal or Shameem Hashmi at 564-1701.

Gay, Lesbian, and Bisexual Discussion Group

Meetings are the first and third Tuesdays of each month from 7:30 - 9:30 PM in the Health Center. This confidential meeting is open to all members of the Caltech community. The first hour is devoted to discussion of a specific topic, and the remaining hour is open for general conversation and socializing. Refreshments are served. For information please call x8331.

Work In Japan

A Caltech alum is offering two jobs in his Japanese factory for the summer. Travel, room and salary are provided. Students will be doing basic factory work. Preference will be given to ME students and/or those with machining experience. A presentation will be given by past years' participants on Wednesday, January 22, 1992 at 7:00 PM in Clubroom #1 of Winnett Center. All interested undergraduates are welcome. Refreshments will be served. Deadline for submitting a brief letter of interest is Friday, January 31, 1992. For more information, contact the Dean of Students Office.

Fun Fund Receipts

First term winners of Don Shepard Fun Funds must turn in their receipts on or before February 1, 1992. Students turning in receipts after the deadline will not be reimbursed, and any money left over from first term will go into the Second Term Fun Fund. Turn in your receipts to Jeanine in the Residence Life and Master's Office.

GM Scholarship

The General Motors Corporation is offering one new scholarship to a student interested in the automotive industry who is a second term sophomore in Mechanical Engineering with a 3.2 or higher GPA. The GM Scholarship includes full tuition, a \$1000 stipend for books and educational expenses, and a paid summer internship. The awards is for the Junior year and is renewable for the Senior year. Financial need is NOT a consideration in the selection process. Applicants must be U.S. citizens or permanent residents.

Applications and additional information are available in the Financial Aid Office, 515 S. Wilson. Deadline to apply is February 3, 1992.

Film Series

Battleship Potemkin (1925), a work judged by many critics to be among the five best motion pictures ever made, will be screened as part of the Film Program's Soviet Film series at 7:30 PM, Tuesday, January 28 in Baxter Lecture Hall. The first major feature film by the greatest of Soviet directors, Sergei Eisenstein, the work is revolutionary in both content and form. As it chronicles the revolutionary activities of Black Sea Fleet sailors during 1905, *Potemkin* shows Eisenstein's innovative technique of montage - later to be much copied by Hollywood - in its most pristine and effective form. Admission free.

Chamber Music

There will be Caltech Student Ensembles concerts on the evenings of Friday, January 24, and Monday, January 27. The programs each begin at 8:00 PM in Dabney Lounge. Admissions is free to these Student Affairs sponsored events.

Announcements for *What Goes On* may be submitted on forms available outside the *Tech* office (SAC room 40A) and in the copy/mail room (SAC room 37), or use a plain piece of paper. Send announcements to 40-58, or put them in the IN box outside the *Tech* office. Announcements should be 75 words or less. Indicate the date(s) the announcement is to run. Announcements for the current issue must be received by 5 pm Tuesday. Announcements will be published as space becomes available and will be chosen according to size and interest to the Caltech community. Announcements for commercial events unrelated to Caltech will not be published.

Women's Group

The Caltech Undergraduate Women's Group is meeting again. Call the DRL's office for more information at x6194.

Football With the MOSH

Drop in on the MOSH between 3 PM and 6 PM, Sunday, January 26, for the Super Bowl. BIG screen TV and free burgers and munchies.

Chess Club

The Caltech Chess Club will meet every Wednesday at 7:00 PM in Chandler Dining Hall. Caltech Open, Wednesday nights, January 22 through February 26. Two divisions, entry fee \$5 for non-members.

Shabbat Dinner

Caltech Hillel invites faculty, staff, and students to a Shabbat dinner on Friday, January 31, at 6:30 PM. Following a short service and a delicious Kosher dinner, Rabbi Jonathan Omer-Man will lead a roundtable discussion. Please call Louise Lorden at 447-2003 for further information and reservations.

As always, the Y is doing plenty. Take your pick, and enjoy!

Just around the corner:
Jan. 25: The Y is cosponsoring a bridge tournament, starting at 1PM, downstairs in Winnett. Several professional bridge players will be there to play and give tips. If you want to know more before stopping by, contact Brian McAllister, 585-1414.

Jan. 25: **BROOMBALL**, first of two this term. Saturday night till Sunday morning, unspeakable violence on ice. Next one's Feb. 22nd.

Jan. 28: Friends of the Caltech Y dinner.

Jan. 31: Trip to Disneyland. Come to the Y beforehand to figure out transportation. With one California resident for every five people, tickets come cheaper (\$20). You like the Mouse, don't you? Well, give yourself a day off, then...

Feb. 2: Associates Student Sunday! Meet an Associate, see their house, and get to eat good food too. Sign up at the Y, or in your House.

Feb. 3: Suzi Landolphi returns. A frank, very funny performance

about sexual awareness. Noon to 1:30, in front of Winnett.

Y ticket sales:
IMAX tickets: \$3.50, good anytime.
IMAX tickets for the Rolling Stones film: \$13.00 These expire on the 31st, so don't wait too long.
Basketball: UCLA vs. WSU for Feb. 8th, fourteen bucks each.

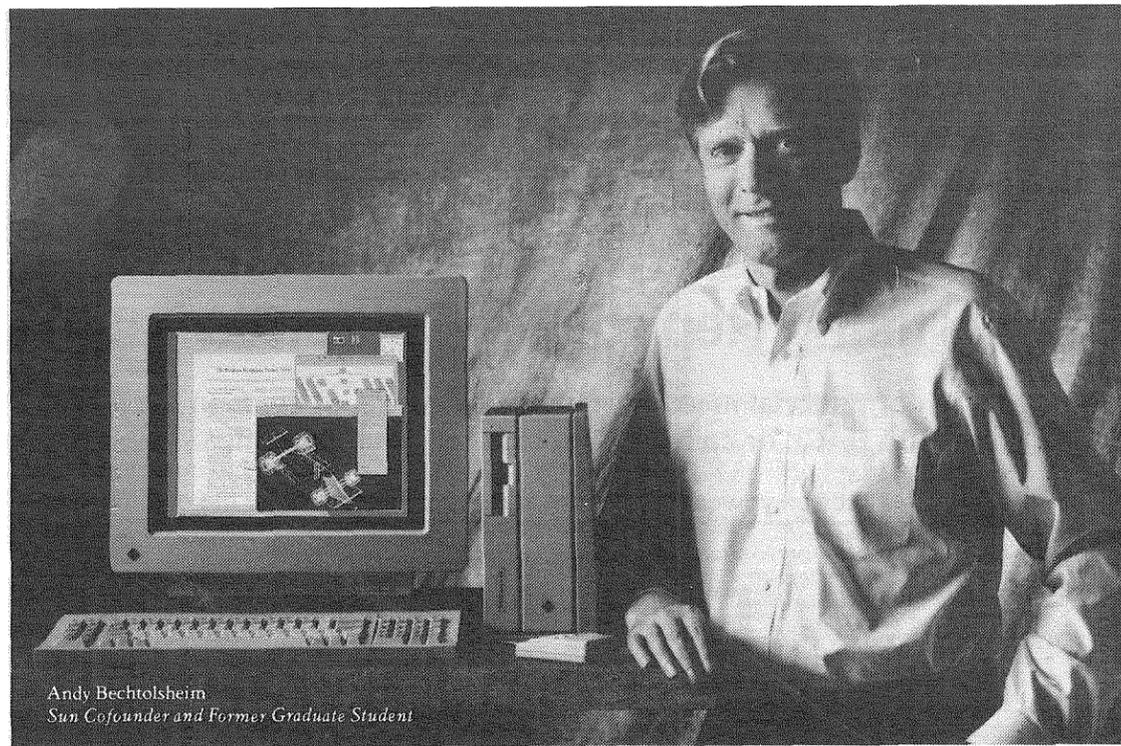
Further out toward the horizon, the next trip to Tijuana to help build a community center for deported youngsters is February 13-16. Closer to home, Outward Bound is February 14-16. This is a chance to join some local high school students in several days of outdoor activities. Sign up at the Y, as usual. Hurry, because we only have ten spaces.

Start getting into shape for the Spring Break mountain biking trip... More warmup trips coming up.

Among our ongoing services, we have the Rideshare Bulletin Board outside the Y office and the Y book exchange, a practical way to get around the bookstore's prices. Any questions/ideas? Contact the Y at x6163.

We're always looking for more people and more things to do, so if you want to help organize our on campus activities or volunteer work, stop by! The Y Excomm meets noon-1 every Monday, in the Y lounge. New people and ideas are always welcome.

Ten years ago, when this graduate student needed a Sun workstation, he built it.



Andy Bechtolsheim
Sun Cofounder and Former Graduate Student

Today they're a lot easier to get.

When Andy Bechtolsheim was a graduate student at Stanford University, he couldn't get a Sun™ workstation anywhere.

Not in a lab, not in a store. Powerful, open computers simply didn't exist.

So he built his own—the first Sun workstation.

And now they're everywhere. From college campuses to research facilities, people use them every day to make new discoveries.

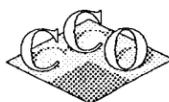
And so can you. Because buying a SPARCstation™ IPX,™ our newest low-cost graphics system, is as easy as visiting your campus bookstore or computing center.

The SPARCstation IPX has a graphics accelerator

for interactive manipulation of 2-D and 3-D wireframe models, and 8-bit color and grayscale support. The SPARCstation IPX also gives you built-in networking capabilities and access to more than 3600 SPARCware™ solutions. And it's backed by our on-campus service and support.

No other system offers more power and graphics functionality for the same price than the SPARCstation IPX, which means you couldn't get a better workstation unless you built it yourself.

And since Andy's already taken care of that, why not just come in and see the SPARCstation IPX today.



Visit us at our **Grand Opening**
Winnett Center
Friday January 31 - 10 AM to 2:30 PM



© 1991 Sun Microsystems, Inc. Sun Microsystems and the Sun logo are registered trademarks of Sun Microsystems, Inc. Sun and IPX are trademarks of Sun Microsystems, Inc. SPARC is a registered trademark of SPARC International, Inc. SPARCware and SPARCstation are trademarks of SPARC International, Inc., licensed exclusively to Sun Microsystems, Inc. Products bearing the SPARC trademark are based on an architecture developed by Sun Microsystems, Inc.

**SERVING CALTECH
SINCE 1945**

**Authorized Agents for Airlines,
Hotels and Steamships**

H.B. BENNETT
The
Finest in
Professional Travel
Services
TRAVEL AGENCY

(818) 795-0291
(213) 681-7885

CAMPUS EXTENSION
5091

690 E. GREEN ST.
PASADENA
(between El Molino & Oak Knoll)



SPORTS

Beavers Beat Bruins

by Jim Caron

The Caltech hockey team is back in full strength for the last half of the season. They started off by playing UCLA at Culver City on Friday, December 10 at 12:30pm. The Beavers will be played to a sold out stadium and the UCLA cheerleaders made a scheduled appearance.

It was unfortunate that Caltech had only had two practices to get back in shape before playing the Bruins. Coaches for both teams were concerned that too much cheeseburger and paradise over the break may slow down the game. But Tech and UCLA were in the same boat in that regard..

As usual, after a long break, the the Beavers had to get back into a rythmn and get used to skating with one another again. The line of Dale Laird, Jeff Hall and Jeff Moore was finally complete again. They had not skated with each other towards the end of the first half of the season because of injuries.

Defense is looking very strong right now. Ron Siefert has fully recuperate from his shoulder injury and operation which kept him out of the first half of the season. Siefert injured his shoulder towards the end of last season. The french connection is back and in tact with Jacques Belanger and Francois Rozon. Rozon's ribs are said to be feeling much better and he is ready to take on the rest of the season.

As was to be expected the U.C.L.A. game started of slow or sluggish to be more precise. The Bruins are definitely not a team to be taken lightly especially not in

their home rink. It was important that the Beavers come out strong and beat this team more for mental reasons than anything else. Caltech had to get adjusted to skating on the Bruins large ice surface as well as get usewd to skating with each other again.

There was plenty of hitting and as many penalties to match in this

game. Defenseman Ron Siefert made his presence on the ice well known to U.C.L.A. Having Siefert back is definitely going to add depth to the team. Siefert functions as an aggressive and offensive type defenseman. He is not afraid to skate the puck out of the zone by himself or crush an opposing player going through center ice with his

head down.

One of the highlights for Caltech at this game was the scoring of the Laird, Hall and Moore line. Caltech managed to score first as Dale Laird assisted Bob Lane who slipped one passed the Bruin netminder in the first period. It wasn't until the second that UCLA managed to get one back. The game remained tied throughout the second period until Dale Laird scored assisted by Jacques Belanger and Jeff Hall. Topping the game off was Laird again for his second of the night assisted by Jeff Moore and Jeff Hall. The Beavers Beat UCLA 3-1.

Last Sunday in Pasadena Caltech faced off against the Trojans from USC. Every time these two teams match up there is bound to be a great hockey game. The Trojans have a talented team and play a very physical game because they probably have the most size out of any other team in the league. Their only down fall is that they do not play as a team very well. That is partly due to poor coaching but mostly due to large egos amongst the players. They function as an unruly bunch and it not uncommon to hear them arguing with each other during the course of a game.

In typical USC style the game started off with a Trojan penalty within two seconds of the first period. That was to set the tempo for the rest of the afternoon. There must have been at least five minor fights and a countless number of penalties.

Caltech managed to score first when Max Hietzmann streaked down the right side of the ice to put one home unassisted. That sent a message to USC that the Beavers were ready to play hockey. The fans were treated to a great game as the score was kept within one or tied for the entire game. Scoring from the point to tie the game at two was Francois Rozon. Then finishing the scoring for the Beavers was Hietzmann getting his second of the night. The final score was 4-3 for USC.

Caltech Swim Team Edged out 106-107

Last Saturday, both the women's and men's swim teams played host to Occidental and Pomona-Pitzer. Last year, the women's team upset Oxy in a nail-biter of a meet. This year, the Tiger women would have none of it. Even with great swims from Karin Johnson in the 200 I.M. and Karen Ross in the 100 free, Oxy just kept marching along. Fielding a much improved squad, the Oxy women distanced themselves from the Techers at the very first race.

While this was happening, the men's squad was picking up their points in bunches with 1-2-3 finishes in the first two individual events. But the talented Occidental swimmers and the lack of Caltech divers (Serge?) began to chip away at the Beavers' lead and by the eighth race, the score was CIT 67, Oxy 66. The next event, the 200 backstroke, was important for Occidental, as it catapulted them into the lead. Along with valuable points in the 3-meter diving competition, this gave them a 19-point edge. But another 1-2-3 finish in the 500 free by Chris Buchner, Alan Kulawik, and John White brought Tech to within five points. The last individual race was the 200 breaststroke. All three Caltech swimmers performed well, but Oxy still placed first and fourth to take a 103-95 lead. The final event found the relay team of Mark Savellano, Chris Buchner, Keith Thompson, and Roger (Rocket) Moore touching out their opponents by 0.6 seconds to score eleven points - but Oxy still received four points for second place, giving them a one point victory, 107-106. Swimmers of the meet included Karin Johnson, Lesley Preister, Alan Kulawik, and Chris Buchner.



BEAVER CUP VI

The Annual Caltech - MIT showdown

BE THERE!
DON'T MISS THE ACTION!

Game time 11:30 A.M.
Sunday January 26 at the Pasadena Ice Skating Arena.

Techers! Beat the uncertain job market blues

Prepare now for another possible career...

Become an

Advertising Rep for the California Tech!

Come to an informational meeting, Tuesday, Jan. 28, at 9p.m. in the Tech office (room 40A SAC), or call x6154 to express your interest.

Work as much or as little as you can! The more ads you sell, the greater the commissions!

Buy Caltech cards and save, save, save! **BURGER** Buy Caltech cards and save, save, save!
CONTINENTAL

TO ALL CALTECH STUDENTS, FACULTY, AND STAFF:
At all times, seven days a week

BREAKFAST	\$2.19	with soft drink or coffee
LUNCH	\$4.95	with soft drink
DINNER	\$6.25	with soft drink

Breast of chicken, seafood, lamb, or the day's special

PIZZAS
Homemade variety pizzas

SPECIALTIES
Shish Kabob, Shaorma, Souvlaki-Steak
Fresh Fish and Lamb, Baklava, Gourmet Hamburgers
We cater for all occasions

Faculty, Grad Students, Attend! 535 S. Lake Ave.
Monday and Tuesdays are Beer Days. Half price on beer. (818) 792-6634

Rag Time
on Green

RESALE CLOTHING
for WOMEN

1136 E. Green St. • Pasadena
(818) 796-9924

Wed 10-6 • Mon-Tue-Thu-Fri 10-5 • Sat 10-3

ACADEMY
BARBER SHOP

27 N. Catalina Ave., Pasadena
Open Tues.-Sat., 7:30 a.m. - 4:30 p.m.
449-1681



PARIAN TRAVEL

Caltech Officially Approved

Most professional, courteous, economical and efficient service for your **official** and **personal** travel needs.

Free service to you.

Airlines, Cruises, Tours, Hotels, Car Rentals.

Individual, Commercial, Groups.

(818) 577-8200

468 S. Sierra Madre Boulevard, Pasadena

THE CALIFORNIA TECH
CALTECH 40-58 SAC
Pasadena, California 91125