

Your newspaper is my most regular source of information on what my son is doing out there.
Thanks for your rollicking approach to journalism.
-Dabney sophomore's mom

THE CALIFORNIA TECH

We Quit!

Volume XCI, Number 5

Pasadena, California

October 20, 1989

Football Victorious With Last Minute Comeback

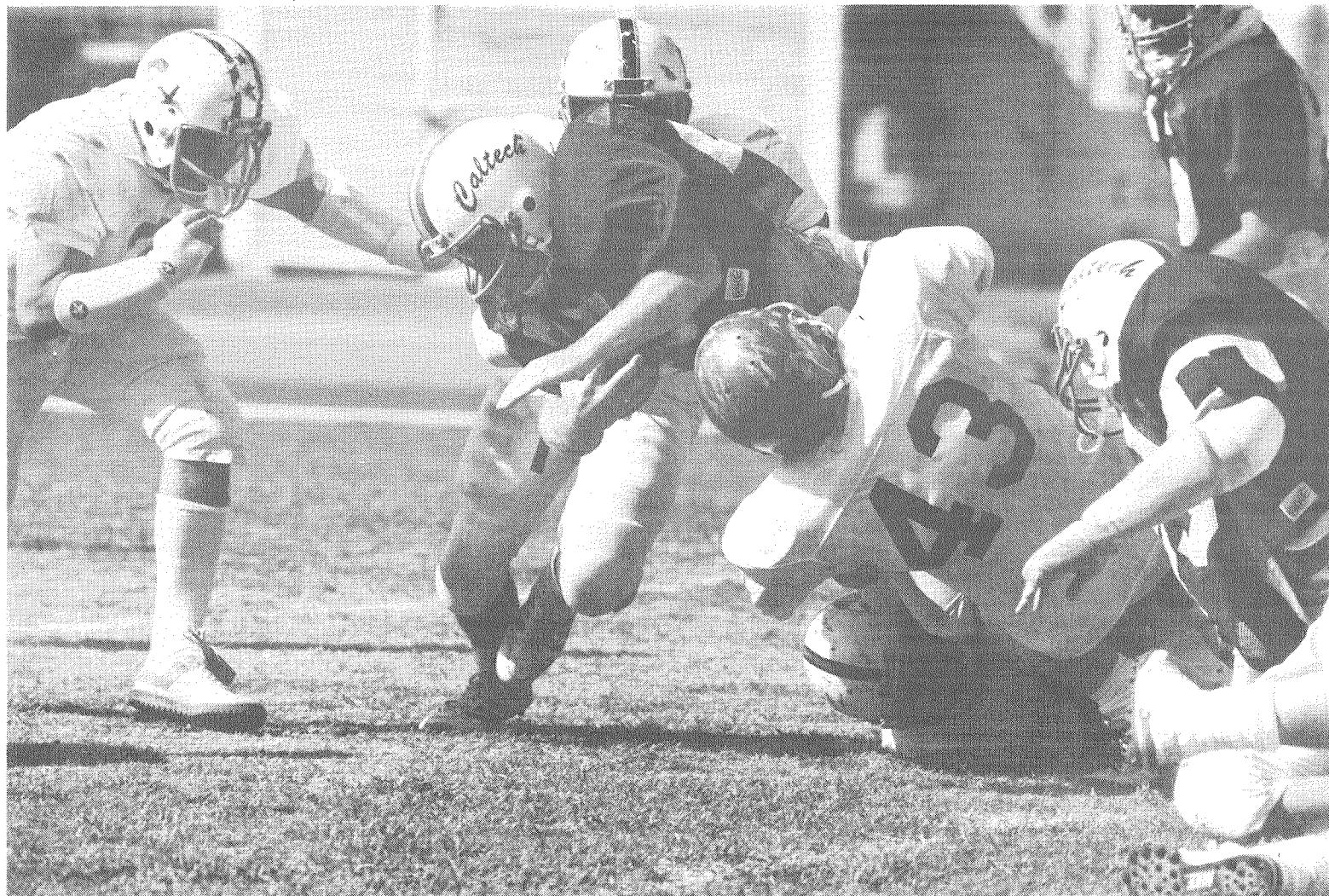
by Ali Mortazavi

Congratulations, you can read titles. Yes, we won last Saturday, and yes, it was very close. Actually, the score, 33-28, does not impart how close we came to losing our perfect record (4-0, if you care). Unlike last week, we played against people that actually knew how to play football, the semi-pro L.A. Mustangs. To make the game even more interesting, our team was not at its best...that is, until the very end.

The first quarter set the tone for the game, kinda. Their running game was amiss, but they made up (with the help of...our defense) by completing most of their passes with seeming ease. Thank god (whichever one you deem most responsible), the Mustangs had a genius for getting penalties. As for us, well...apart from the fact that our defense was (almost) solely centered on Riley and Whitney, and that the referees usually did more to stop the Mustang drives than our defense ever did, we were okay. The Mustangs scored their first touchdown (with a two-point conversion, of course) on their second possession. Our (ultimately) glorious Beavers bravely battled back with little time to tie the tally to 8-8 in a 5-minute, 76-yard drive led by Stone (he scored the 2-point conversion). Not bad, thou saith. Have patience...

I was reasonably optimistic by the time the second quarter started. After all, they were giving us a good fight but we were tied and I hoped that the Battling Beavers had "woken up." Well, the Mustangs managed to score another 8 points in a 5-play, 76-yard drive, where they demonstrated that the Beavers were impotent (you perverts, how could you think...) when it came to slowing (forget stopping) their passing game. The Beavers responded by scoring a TD on a 15-yard pass by Stone to Casey, but managed to miss the two-point conversion. The Mustangs were leading (15-14). Worse, they had the ball. They passed. They passed again. They got to the Beaver twenty. Were they gonna score?? No, their quarterback was "dropped" and the half was over.

Halftime...As I took a leave from a slightly depressed Beaver Stadium, I went to see the volleyball challenge between Fleming and Ricketts (well, at least the beginning). Predictably, the brave scurves were losing badly to the forces of evil. I was nevertheless



Caltech gridiron gladiator shows the intensity required to maintain their unbeaten record.

disturbed enough that a stream of mind-boggling questions inundated my mind. "How can we stop the Mustangs?" "Will the Beavers win?" "Any more international teams on our schedule?" "How come red-haired girls with malicious blue eyes and in black dresses can get you to do whatever they please on Friday nights?" "Who reads these articles?" Thanks for my sanity, it was time to return to the bleachers and wait amongst the other spectators for the outcome of the game.

I guess the third quarter could have been much worse, but it's nothing either team could possibly be proud of. After all the penalties (how would you like 1st and 51 yards?), fumbles, etc....the Mustangs managed to score another TD. The Beavers answered with their very own "Riley TD"™ with eight seconds left, but once again missed the two-point conversion. The score was now 22-20, and the crowd (not me, of course) started wondering if the Beavers

were losing their invincibility.

An early fourth quarter drive produced what was to be the Mustangs' last TD. But suddenly things started changing. Todd "beer fridge widower" Schamberger blocked the extra point. The Mustangs were getting tired and running out of luck. As they tried to punt, the kicker was unable to catch the ball, and the Beavers fell on the ball at the Mustangs' 21-yard line. The Beavers capitalized on the occasion and scored a TD with four minutes left...but failed to get the two-point conversion that would be needed to tie the score. (Surprised?) Was the game over? Was your mother a Martian? Of course not. The Mustangs failed to run out the clock and had to punt. In pure Tech fashion (i.e., procrastination), the Beavers were able to score the winning TD (and an extra point) with 38 seconds left. Morals of this rambling story: (i) it ain't over till it's over, and (ii) blue eyes and red hair are a lethal combination.

Crime and Incident Beat

- 10-5 Victim in Marks House placed envelope with travelers checks, and American and Canadian money in a drawer in his room. The LAPD said they a suspect in custody with travelers checks in the victim's name and American and Canadian money. Victim was notified, discovered his items were missing and reported it to the Pasadena Police. Victim has been subpoenaed to court as a witness in the LAPD case.
- 10-7 Undergrad broke his leg during Caltech soccer game.
- 10-8 Locked bike on the north side of Robinson Lab had its front and rear brake calipers removed.
- 10-9 Cash stolen from Red Door Cafe cash box over the weekend.
- 10-9 Illegally parked car backed up and hit another vehicle in Thomas lot. Owners exchanged ID and insurance.
- 10-9 Suspect tried to sell victim a magazine subscription in Fleming House. During the sales pitch, suspect placed hand on victim's leg several times. Security apprehended suspect in Ricketts. The victim made a citizens arrest.
- 10-9 Magazine solicitors in Catalina: female, white, 19, blond and 16:50 white male 20-25, 5'5", 150 pounds. Security took them to the Pasadena Police. The male fit the description of the person apprehended earlier in the day.
- 10-9 Suspect standing near bicycles inside Ruddock House. When asked what he was doing, he said, "I'm waiting for Ken." and then he jumped on a bicycle and rode away. Suspect was male, Latin, 18, 5'6", 150 pounds.
- 10-10 Locked mountain bike stolen from the north railing of Lauritsen.
- 10-10 Locked bike stolen from rack in front of gym.
- 10-10 Locked bike stolen from east side of Ricketts House.
- 10-11 Wall clock missing from Baxter Lobby. The clock was purchased from FEDCO for \$7.00.
- 10-12 Victim walking North Crellin when she saw suspect behind a 00:05 column masturbating. The suspect fled when she saw him. Security did not find him. Suspect is a male Caucasian, in his twenties, 5'10", brown hair.
- 10-13 MOSH received call from a former student who wanted to see him in person at Dabney House lounge. The student seemed incoherent, so the MOSH asked security to come. The student was inebriated and wanted to rail at the MOSH for some perceived injustices last year. Apparently not receiving the answers he wanted, the student then bolted.
- 10-13 Wallet and pocket knife stolen from unlocked room in Ricketts.
- 10-14 Toyota, worth \$10,000, apparently stolen from Wilson Avenue, near the Braun Lab.
- 10-15 Todd Schamberger had the roof of his convertible cut and the stereo was stolen from San Pasqual at Holliston.
- 10-15 Locked bike stolen from between Ruddock and Lloyd.
- 10-16 Fire alarm set off in Dabney Hall. Fire department came, but found that a contractor's drilling into concrete set off the smoke detector.
- 10-16 Unknown persons entered the custodian's office through the ceiling by removing the ceiling tiles. Nothing appeared to be missing.

WEEKLY SPORTS RESULTS

Day	Date	Sport	Opponent	Results
Sat.	10-14	Football	L.A. Mustangs	33-28
Sat.	10-14	Water Polo	Whittier	8-9
Mon.	10-16	Volleyball (W)	Pasadena City College	6-15, 5-15, 4-15
Wed.	10-18	Hockey	USC	2-5

WEEKLY SPORTS CALENDAR

Day	Date	Time	Sport	Opponent	Location
Sat.	10-21	9:30 am	Cross Country	Whittier & Occidental	
Sat.	10-21	10:00 am	Soccer	Redlands	Caltech
Sat.	10-21	11:00 am	Water Polo	Chapman	Caltech
Sat.	10-21	1:30 pm	Football	L.A. Athletic Foundation	Caltech
Sat.	10-21	2:00 pm	Volleyball (W)	Occidental	Occidental
Sat.	10-21	All Day	Wrestling	S.D. Wrestling Assn. Tournament	San Diego
Wed.	10-25	2:30 pm	Soccer	Cal Lutheran	Caltech
Wed.	10-25	4:00 pm	Water Polo	Pomona-Pitzer	Caltech
Wed.	10-25	8:00 pm	Volleyball (W)	Mt. St. Mary's College	Mt. St. Mary's
Sat.	10-28	9:30 am	Cross Country	SCIAC Championship	La Mirada Park
Sat.	10-28	10:00 am	Fencing	Cal Poly Pomona	Cal St. Long Beach
Sat.	10-28	10:00 am	Soccer	Occidental	Occidental
Sat.	10-28	2:00 pm	Football	Mexicali Institute of Technology	Mexicali
Sat.	10-28	2:00 pm	Volleyball (W)	Barstow City College	Barstow CC
Sat.	10-28	All Day	Wrestling	El Camino College Tournament	El Camino College

LETTERS

Senior Apathy

To the Editors:

Ever since I first came here, seniors have been saying the same thing: "Tech just isn't the place I remember as a frosh any more." They say it with regret, sadly remembering how much better Caltech used to be. "Why don't you do something?" we would ask, freshmen still enthralled with our newfound lives. "Oh, it's too much bother," they would say. "I won't be here much longer, anyway. Besides, there's nothing I can do."

I've seen this happen for three years now. I even think these things myself, sometimes. However, I think that this apathy should stop here. Here's the problem: in order to know enough about the Institute and how it could be better, you have to have been here for two or three years. Sometimes we get so enthralled with Caltech that we forget that while it is a wonderful place, it is far from perfect. It needs criticism to hold it on course. Our faculty is very intelligent, but most of them know nothing about how we live or how we make decisions. They simply do not have enough data to make all the decisions alone. Student input is critical.

So instead of complaining at random to your friends, write it down. Submit your ideas for better living to *The California Tech*, where we can all read about them and discuss them. If you know of a particularly newsworthy item that hasn't been covered by the editors (after all, there's only 168 hours in a week; even editors have to sleep sometime), offer to write an article! It doesn't take long to write a letter, and it doesn't have to be a masterpiece; even a short letter would be great. After all, it doesn't do any good if 90% of the students are unhappy with a policy if the faculty thinks that we like it. Unless we tell them, they will never know.

Sincerely,

—Elaine Lindelef
Dabney House

Write Letters, Don't Sit

To the Editors:

I would like to thank Drs. Brennen and Wilde for their note to the *Tech* which appeared last week. Although I respect both their opinions and administrative posts, I think perhaps they missed the point of my letter. Their brief note did not actually respond to any student concerns; rather, it directed students to speak to them one-on-one. That is of course an excellent idea, but my point was, only under certain circumstances. If you

suggest more faculty-student functions or new stripes in a parking lot, they may practically lick your face with agreement. If you say that you disagree with some "Institute Policy" (insert thunder here) they will listen to you politely, but that's about it. For these issues, *the Tech* is an excellent and powerful forum. Despite their contention that "confrontation in the pages of *The California Tech*" is neither "valuable" nor "constructive," I would like to point out that my letter elicited the ONLY response to a *Tech* letter in my memory from either the Dean or the MOSH. I would call that constructive.

But Drs. Brennen and Wilde were right about one thing—my letter was confrontational. I apologize. Sorry. Believe me, I edited out most of the worst, for fear I would be even more blacklisted than I already was. So in the interests of being more "constructive," I would like to offer some of what other students have told me are the most critical issues for this school. Perhaps someone in the faculty or administration would like to respond?

1. Encouraging faculty input in this paper. If Caltech is so concerned with the "tradition of direct personal response to student concerns," why has there been essentially no faculty input in this column?

2. UASH. Student consensus: arbitrary in their decisions. Lines of questioning may take nasty side-tracks. Many students agree that nobody from the MOSH's office should attend: nothing personal against Dr. Wilde. The MOSH's job is to deal with students in a decidedly non-academic way, including counseling. If I am in danger of being UASHed, would I dare come to the MOSH with details of my personal problems, knowing they might be used against me? In any event, it weakens student trust, and therefore the effectiveness of the MOSH.

3. The Security problem. We didn't need security at single-house parties two years ago—now we do, because of a few incidents at multiple-house parties. Now they are going one step further. The MOSH will no longer pay for security—they are going to force the houses to, over our objections as to whether we need security guards in the first place. If the administration feels security is needed despite our objections, they should have the good taste to provide it. For small parties, the houses should be able to handle security themselves, through student volunteers.

4. CLUE: Remember how concerned Dr. Everhart was about teaching quality? Well, the CLUE is THE student review of teaching quality. There should never have been a question about financing it, now and always, if teaching quality is so important. Or perhaps we want a review of the faculty written by the faculty, for PR use:

"Caltech Faculty Committee Reveals They Are Gods—page 2."

5. The Eighth House. Current plans don't seem to be very well thought through, and smell strongly of that White Paper (are we still being haunted by that thing?). For example, a Caltech student house is not and never will be a place a faculty member would want to raise a family. It should also be immediately set in stone that it will be not one huge house, but two or three separate houses: no new house should contain double or triple the amount of undergrads of any existing house. During rotation picks, they would need to pick every third or fourth person. Would students there get an equal input in the student government? Would the huge pool of students mean they would dominate in every sport? Would the MOSH give them more money than everyone else, because their parties would cost so much more? And would the rest of us hate-their-lousy-guts because of all this? Thirdhand, I heard that it would indeed be more than one house, but so far nothing written has supported that.

6. Money. The cost of coming to Caltech borders on the absurd, and increases significantly every year. I just don't see what improvements have been made over the summer that justify it. Yes, I realize we students get a lot of neat gadgets to play with, and an incredible faculty, but this school also thrives because of the continuing reputation of the student body. That's the reason I came. There are small, elite schools which don't charge tuition at all...has anyone ever looked into how such a system could work here?

I have to put this in. Although it is not a problem of the same scope as those others, affecting only me, I believe it to be representative of the "Caltech tradition" cited by Drs. Brennen and Wilde. During last year, I filed a Student Grievance, according to written Caltech policies. Mine was the first grievance to be filed in three years, and after being discouraged from pursuing it by several administration members, I can see why. I filed it in September; I finally got a hearing in February. The Committee itself was wonderful, and they came to a decision which, while not entirely in my favor, I could agree with. Was it carried out? Well, only about half. Certain members of the administration apparently disagreed with the Grievance Committee's power to mediate the situation in the first place. For example, you can't file a Grievance against UASH. (Or apparently the Deans, either.) As a matter of fact, I was told after the Grievance that I could not live in Institute Housing for a year. No reasons given. A member of the administration later said it was to avoid conflicts with another student (see letter of October 6), but a quick question or two revealed that said person is in fact not a student

this term, or even in California for that matter. I suppose it would be paranoid for me to assume this is in retaliation for filing my Grievance; after all, the faculty is above such things. Nevertheless, I challenge Drs. Brennen and Wilde to explain how these shenanigans represent a "tradition of direct personal response to student concerns."

None of these problems can be solved by one-on-one chats with Drs. Wilde or Brennen. And though I don't mean to chew out the entire world, I must say that our student government seems dramatically inactive on any issue not directly involving allocating money or sports challenges.

I urge the students, especially those of you who agree with me on the points above, to take Drs. Brennen and Wilde up on their offer. More importantly, PLEASE WRITE MORE LETTERS! If one more person comes up to me and says, "Great letter, Mike," I swear I'll kill 'em. On the other hand, if a number of students were to also write letters about these same concerns, that would be a strong motivation for them to be addressed. And if they still weren't answered, the administration would look pretty bad...and I will have proven my point. Constructively.

—Michael Lazzaro
Dabney House

Enjoy Physics?

by Christopher Oei

About half of the entering freshmen each year think about majoring in physics, but only a tenth of them will graduate with physics degrees. In the time it takes to graduate, some people will find other subjects more interesting. A few will just lose interest and burn out completely. But there are some who will find that the more they learn about physics, the more interesting it becomes.

The Society of Physics Students was created to bring all the people interested in physics together and give them an opportunity to work with each other, help each other, compete with each other, and inspire each other. We hope this would make physics at Caltech richer, more interesting, and easier on the students. At our first meeting, we set up several projects toward this goal.

Every Sunday at 7 pm, we hold a study group/tutoring session in Clubroom 1 of Winnett. Upper-classmen can volunteer to help the underclassmen with any physics homework or questions they have. Underclassmen can feel free to ask any questions they like. We have free pizza and soft drinks every session, and attendance has been good.

We will hold a special meeting at 2 pm on Sunday, October 22 in Clubroom 1 to talk about building a robot. Building a robot that can wander around and learn from its surroundings is fun and easy. It's a good opportunity to put what you've learned to work.

People who are interested in teaching basic science to elementary school classes should go to a

continued on page 4

Invest Money

by Bob Maher

If you've ever wondered how the stock market works, if you've ever wanted to learn how to invest your own money, or if you've been hungry around 6:30 pm on Wednesday night the Caltech Student Investment Fund may be for you. It meets every week in Millikan Board Room (Wed. at 6:30), and manages over \$160,000 of Caltech's portfolio. A one time gift of \$75,000 by Caltech Alum Stanley Johnson established the club 12 years ago.

The fund invests in stocks, bonds, money market funds (cash), and now options (an option is merely the right to buy or sell something). Our stock portfolio ranges from the computer industry to the entertainment industry to real estate developers. Usually, students come across these companies through their respective fields of study, and bring information about the most promising stocks to the meeting. Millikan Library and Caltech Treasurer's office have a wealth of stock information. No previous experience is necessary to join the club.

Running without a faculty advisor for the last three years, the group has a chairman, treasurer, and secretary. All positions for the following school year are elected at the end of May meeting. The club is designed for undergrads and grads, but any member of the Caltech community is welcome to attend the meetings.

The purpose of the club is chiefly educational. Aside from the weekly refreshments, participating members do not receive any of the profits, but they also do not have to risk any of their own money. In its annual display of generosity, the club also distributes over \$5,000 each year to Caltech clubs and organizations.

Investing can be an expensive game, even if the investor doesn't lose money on his stocks—the commissions will eat you alive. Investing money wisely requires a feel for the market that can only be acquired through experience. The Caltech Student Investment Fund offers you an opportunity to gain this experience without risking any of your own money.

THE CALIFORNIA TECH

Volume XCI • Number 5
October 20, 1989

EDITORS

Mark Lytle
Scott Kister
Paul Socolow

REPORTERS

Brian Kurkoski

SPORTS

Ali Mortagazi
Brian Shim

ENTERTAINMENT

Shane Sauby

PHOTOGRAPHS

Matt Fetterman, ed.

PRODUCTION

Nick Smith

BUSINESS MANAGER

Sonny Arcilla

OFFICE MANAGER

Gavin Claypool

CIRCULATION

Peyjen Wu

THE CALIFORNIA TECH

40-58 SAC

California Institute of Technology

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 letters for literacy, expediency, or else.

Turn in copy (preferably in WordStar format on an IBM-compatible floppy disk) to the *Tech* mailbox outside SAC room 40. The deadline for copy is Wednesday at noon; for announcements, Tuesday at 5 p.m.

Subscription requests should be directed to the office manager. Subscriptions are \$3.50 per term, \$9 for one year, \$17 for two years, \$24 for three years, and \$30 for four years. Life subscriptions are available for \$125.

Printed by News-Type Service, Glendale.

ISSN 0008-1582

Top Dollar Paid
for Your Old
CD's-Tapes-Records

Bring 'em in for Cash or Credit
Buy-Sell-Trade-New-Used
CD's-Tapes-Records
Rock Specialist
Metal • Import • Alternative

Billboard TOP 30
All Hot New Releases
\$6.99-LP/CASS-CD-\$11.99

Music Exchange
220 So. Central Ave., Glendale
(818) 240-6539

THE BRIGHT YELLOW BUILDING
1/2 BLOCK N. OF COLORADO
ACROSS FROM THE GALLERIA IN
GLENDALE.

10% OFF Any
Purchase
With This Ad, Dude!

ASCIT FRIDAY NIGHT MOVIE

La Bamba
With: Solid Tin Coyote
Baxter Lecture Hall
7:30 & 10:00 p.m.
\$1 for ASCIT members
\$1.50 for others
Next Week: The Living Daylights



Book Review

by Nick Smith
*What Might Have Been: Vol. 1
 Alternate Empires*
 Edited by Gregory Benford &
 Martin Greenberg
 Bantam, \$4.50

This book, volume 1 of a stated two-volume set, is a collection of short stories that are not exactly science fiction. What they are is "alternate history" stories. Each one takes the premise that some key point in history was different from the history we know, and presents a story in that alternate time and place. The better ones take a major point of history and diverge at a simple, recognizable moment, and carry their theme forward for a significant amount of time. The lesser efforts (and there are two or three) are uninspired bits of political sniping at recent history, unworthy of inclusion in an otherwise excellent collection.

One thing that I noticed is that several of the best stories had to do with turning points in religious history, a theme which surprised me, since much of the collection was written by "hardware" science fiction writers. For example, two of the stories are about changes in the story of Moses. Poul Anderson's "In the House of Sorrows" goes even further, postulating a simple change that affected Judaism and Christianity (I won't tell you what—it would give away part of the story) in such a way that the spread of Islam was also rendered

non-viable. It is a fascinating story of historical "might-have-beens" and "what-ifs." Larry Niven's "The Return of William Proxmire" is both a tribute to the late Robert Heinlein (who got to read the manuscript before his death), and a humorous slam at both time traveler and William Proxmire (may he be reincarnated as a sea slug).

Harry Turtledove's "Counting the Potsherds" and Frederik Pohl's "Waiting for the Olympians" (the latter about the impact of real alien encounters on the writing of science fiction, amusingly disguised) both take solid views of history and society as they could easily have developed.

The losers? Well, Greg Benford's "We Could Do Worse" and Barry N. Malzberg's "All Assassins" were cheap-shot stories that do not play by the rules of the anthology, since neither story follows from a single change in history, but rather from a whole series of unlikely changes needed to make the writer's point. Oddly enough, Benford's story is cheap Nixon-bashing, and Malzberg's is cheap Kennedy-bashing. Neither one was worth the time spent reading it. Benford (the editor), must have liked the story by Benford (the writer), and added the Malzberg story for perverse balance.

Overall, the anthology was worth reading, and I am looking forward to the companion volume, *Alternate Heroes*.

LAEMMLE THEATRES

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

François Truffaut's
 Last Story

The Little Thief

Daily 5:45, 8:00, 10:10 p.m.
 Sat-Sun matinees 1:15, 3:30 p.m.

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

"Two Thumbs Up!"
 —Siskel & Ebert

**sex, lies and
 videotape**

Daily 5:20, 7:30, 9:40 p.m.
 Sat-Sun matinees 1:00, 3:10 p.m.

ENTERTAINMENT

Who's Afraid of VW?

by Gavin Claypool

Pick a role:

You're an associate professor in the history department of a small private college. You've just come home from one of those dreary faculty parties, it's two o'clock in the morning, and your wife has—without telling you—invited one of those new faculty couples over for a nightcap.

Or:

Your father is the president of a New England private college. You married the man who would become Daddy's heir apparent—but he didn't. He didn't even become head of the history department, or a full professor. And you have nothing else—just him. And the games.

Or:

You're the new biology instructor at New Carthage (or his wife). One of the faculty wives has invited you two over for a nightcap, and you arrive just in time for a screaming row. Do you make polite noises and leave, or—do you play the game?

Games of contempt and ridicule, truth and illusion are the primary form of interaction in Edward Albee's *Who's Afraid of Virginia Woolf?*. The current production at the UCLA James A. Doolittle Theatre is directed by the author, now 61, who was already a seasoned playwright at 34 when the play first appeared on Broadway.

Glenda Jackson and John Lithgow (Martha and George) host

this all-night party, and it is their good-natured bickering laced with scorn that finally passes beyond their previous limits and draws out their ultimate pain. Twice an Academy Award winner for Best Actress, Jackson is, in proper turn, passionate, bitter, and pathetic. Lithgow, whose recent films have shown his vast range of character types, has had an equally illustrious stage career going back to his Tony-Award-winning Broadway debut in *The Changing Room* in 1973. When these two declare war, it's time to hunt for shelter.

The children in this minefield are Brian Kerwin and Cynthia Nixon (Nick and Honey) who, after acting initially as catalysts for the older couple's sparring, are inexorably drawn into the war as disposable weapons. Both prove to be excellent foils for Jackson and Lithgow.

With a 3 1/2 hour running time, the two intermissions are a necessary and a blessing, allowing the audience to catch its breath and relax its rigid frame.

This is a golden opportunity to see a first-rate performance of a major American play. *Who's Afraid of Virginia Woolf?* runs through December 17 at the Ahmanson at the Doolittle, 1615 N. Vine St., in Hollywood. Ticket prices are \$26-\$36 depending on location and time of performance. Except for Saturday night shows, student rush tickets may be purchased one hour before performance time for half price (1 ticket per full-time student with ID).

Dairy Queen



SHOW YOUR BRAIN

FOR CALTECH'S CENTENNIAL FLOAT!!!

As part of Caltech's **Centennial Celebration**, the Institute plans on entering a float in the 1991 Tournament of Roses **parade**, and you can be involved!

The committee in charge of the float wants **your ideas** for the float's theme language and design. The general theme of the 1991 parade is **HUMOR**, so please make sure that your theme phrase and float design are humorous. If you want to see your float idea become a reality, please follow the instructions below:

- on the back of this form (or on a separate sheet of paper) show a PRELIMINARY sketch of the float concept (this should NOT be a detailed drawing - just a sketch)
- in the space provided, write the proposed "theme title"; a word, phrase, or sentence which acts as a title for the float and also conveys the parade theme of humor
- include 2-3 sentences (at most) describing any "animation" (moving parts) or use of people on the float
- send the completed design to Hall Daily, Caltech **1-71**; Pasadena, Ca 91125 by DECEMBER 1, 1989
- Caltech **judges** reserve the right to use any part of the idea, theme, title, design, or animation submitted
- for further information call **356-6256**; Laurie Leshin, 356-6474; Pam Katz Rosten, 356-6176; or Taras Kiceniuk, 354-1940.
- be creative and HAVE FUN!!!



(continued on back side)

Water Polo Loses By One

by Captain X

It was a heartbreaker, alright. Last Saturday's match against Whittier College was the closest the water polo team has come this year to actually winning a game. The worst part of it was, however that the Caltech team blew a 2-point lead in the third quarter and lost a game they should have won.

It was cloudy and drizzling that Saturday morning. In the first quarter and throughout the game, the Beavers were plagued by kick-outs when they guarded the hole. By the end of the game, they had accumulated about ten kickouts, each starter being ejected once or twice for sloppy hole guarding.

By halftime, however, the Beavers were close behind Whittier and gaining momentum. During the third quarter, Caltech's offense blasted Whittier, and the Beavers had a two-point lead. One major highlight was a full-tank shot

scored by goalie Bill Swanson when the Whittier goalie was caught way out of the cage. Unfortunately, Bill has sold out and will now be playing basketball, instead of the more studly water polo.

In the fourth quarter—well, let's not talk about it. The Beaver defense broke down and Caltech lost, 9–8. Still, this represents a marked improvement over last year, when the Caltech team was demolished by Whittier. Also, Caltech will have another chance to beat Whittier at the SCIAC finals later this season, so all hope is not lost.

In Saturday's game, Brian Shim had three goals, Dave "The Punisher" Geraghty had two goals, while Tamaki Murakami, Doruk Engin, and Bill Swanson each had one. The Beavers host Chapman this Saturday at 11:00 am, so all you landlubbers come out and see some destruction in the water!

Counseling Underground

Since last May, Prototypes, a center for innovation in health, mental health, and social services, has been providing new programs to meet the diverse needs of Caltech graduate and undergraduate students.

The Caltech-Prototypes Student Consultation Program offers assistance to students who want help or information about alcohol and substance abuse, and other stress-related problems. Aimee Ellicott, Ph.D., director of the program, is a clinical psychologist with a specialization in substance abuse prevention, stress management, and program development. She offers short-term individual coun-

seling, educational programs on a variety of topics, and referrals to other resources at Caltech and in the community. Her office is centrally located in the Student Activities Center, Rm. 54, and services are free to all students and are completely confidential. She is available to meet with students on Tuesdays and Thursdays, with drop-in hours on Tuesdays 4-6 pm and Thursdays 3-5 pm. If you have a problem and you aren't sure where to turn, or if you have a good idea about a program for students you would like to see on campus, give her a call at 792-3191 or drop by her office.



Shawn Hillis is the first frosh to go.

photo by Matthew Kidd

Cheap Movies, Cheap Theater

by Shane Sauby

How many of you have heard of the Academy theatre? Now, some of the frosh may be saying, "What's the Academy?" while upperclassmen are saying, "Oh Yeah! That place!" Anyway, I had the pleasure of taking in a few movies at the Academy this summer, so I now know what an entertaining and interesting experience it is.

The Academy is located at 1003 E. Colorado Blvd. (Phone # 795-0694). It is a theatre with six "screens" and I use the term loosely.

Actually, there are some nice things about the Academy. First of all, they are all double features. (Except maybe *Field of Dreams*, which is worth seeing anywhere.)

★★★★) Second, they are two bucks, except on Wednesday, when they're a buck. Yes, it's cheaper than renting videos. Finally, the Academy sometimes has movies which are hard to find. *Indiana Jones* and *Field of Dreams* would be difficult to find elsewhere presently. So there are some nice things about the Academy. There are also some problems.

The Academy needs to be remodeled, or maybe condemned. The seats, floors, and screens are a mess. The sound system needs to be revamped, and the projectors need to be scrapped for spare parts. On top of all the problems with the theatre itself, the clientele leaves something to be desired. I sat with my friend and listened to an ongoing commentary from an oversized

Overall though, it is hard to say whether I would recommend the Academy or not. It is very cheap comparably (Cineplex Odeon in Universal City being \$7) and you do get to see two movies, if you want. This is extremely handy if you can't decide what to see. I would make this suggestion, though. If you decide to go, go with friends. A bunch of Techers with you at almost any movie make things more lively, and especially at the Academy.

individual two seats down. There is usually a general noise coming from most directions that is due to whispering, giggling, and children running up and down the stairs. This is the worst theatre I have ever been in, and I have been in many.

Physics

from page 2
special meeting at 1 pm on Sunday in Clubroom 1. We will talk about what kinds of things kids like to learn and arrange transportation then.

From time to time, professors will give talks at our meetings. Dr. Schwartz will give a talk on superstrings on November 12 at 4 pm. Dr. Koonin, who was an undergraduate at Caltech, will talk about "What every Techer needs to know about the outside world" on November 19 at 7:30 pm. Both talks will be held in Clubroom 1 of Winnett. More professors will be scheduled for talks in the future.

This weekend, we will also be having a film. On Sunday, October 22 at 4 pm, we will show part 2 of 4 of Feynman's lectures on QED.

An introduction to Mathematica, the computer grunge program, will be held sometime this term. With the help of the computer club, we will have several people give short, informal talks about its features and how to use it to solve problems efficiently.

If you have any comments or suggestions, or if you feel you could help us, please feel free to call us. For more information about the club, please contact: Christopher Oei, 356-9314, or Golda Bernstein, x3739.

Goldstein's

BAGEL BAKERY

We offer 12 kinds of bagels, 4 kinds of cream cheeses • swiss, jack & cheddar cheese pastrami • Hebrew National salami tuna salad • lox • kosher pickles • turkey • juices • self-serve sodas freshly ground peanut butter • bialys pizza bagels • bagel dogs Ferraro's juices • chips • cookies

Mon-Thurs 7-9 ♦ Fri-Sat 7-10:30 ♦ Sun 7-5

FREE BAGEL
WITH ANY PURCHASE AND THIS COUPON

Coupons required. Not valid with any other offer. Offer expires 11/10/89

1/2 PRICE
ON ANY SANDWICH WITH THIS COUPON

Coupons required. Not valid with any other offer. Offer expires 11/10/89

66 W. Colorado Boulevard, Old Town Pasadena
(Next to UA Marketplace Theater) Near Fair Oaks. Free parking.
(818) 792-2435 • (818) 79-BAGEL

Caltech Centennial Floor Theme & Design Challenge

NAME: _____

WORK OR HOME ADDRESS: _____

PHONE #: () _____

REMEMBER TO HAVE YOUR ENTRY IN BY DECEMBER 1, 1989!!!

*****SKETCH DESIGN HERE*****
*****SKETCH DESIGN HERE, or attach a separate sheet*****
 REMEMBER: Caltech judges reserve the right to use any part of the idea, theme, title, design, or animation submitted

MAIL TO HALL DAILY, CALTECH 1-71

THEME TITLE: _____

ANIMATION AND/OR LIVING FORM DESCRIPTION (Briefly): _____



The sophomores, led by Mighty Gwoho, Prince of Ricketts, pull the frosh into the mud at Mudeo.

Caltech Wins Impractical Contest

by Brian Kurkoski

In the Caltech tradition of excelling at impractical stunts, a team of Techers swept a Rube Goldberg competition in Universal City on Thursday last week. The team consisted of Eric Hassenzahl, Mike

Ricci, Chris Hurwitz, Randy Pollock, and Drazen Fabris and was advised by Mechanical Engineering Professor Dr. Joel Burdick. The team designed and built a machine that won the four college competition.

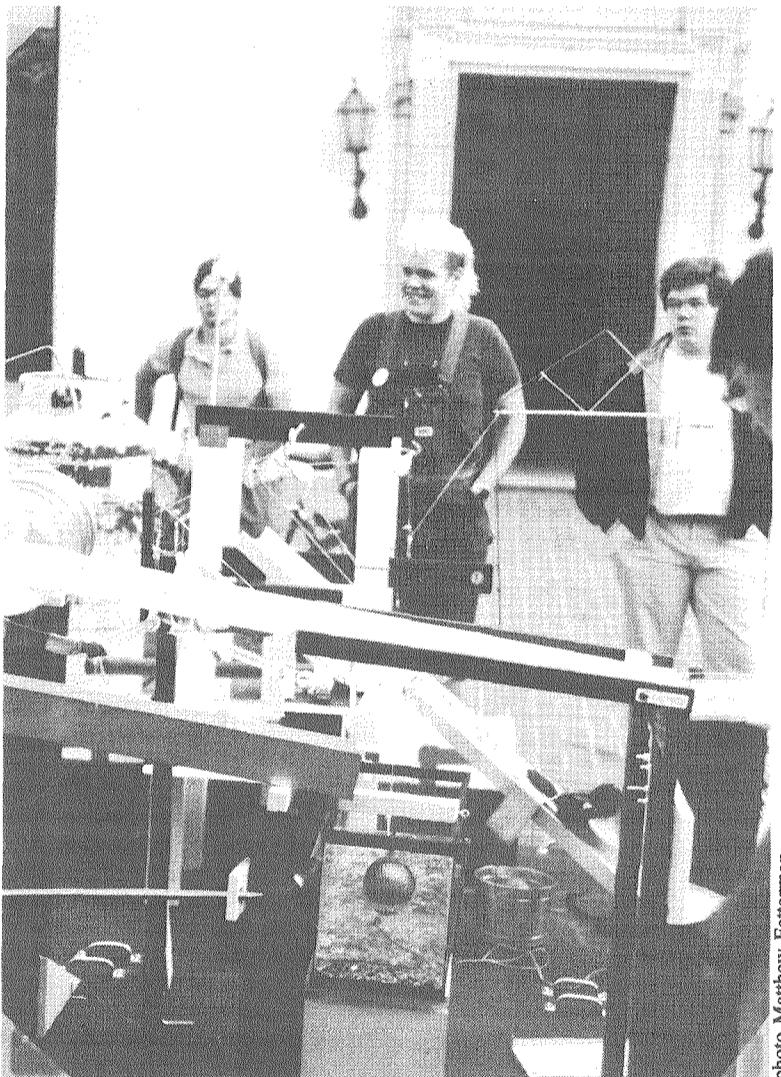


photo Matthew Fetterman

Gorm marvels at the engineering wonder that is the Caltech Rube Goldberg device.

California Tech meeting Today at 12:15, Winnett clubroom one

HAPPY HOUR at the dentist?



See Dr. Richard S. Phillips, D.D.S.
1302 North Altadena Drive
Pasadena • 797-6778

New Patient HAPPY HOUR SPECIAL (Tues. & Thurs., 2-6 p.m.)
Cleaning/Exam \$18.00 (reg. \$70.00)

expires June 1990

New Dabney RA's

by Ali Mortazavi

Dabney is changing once again. Not to worry, they're not becoming "normal," they're just becoming more international. Aside from the crop of frosh, the Darbs are also getting new RA's— from Down Under. Their names are Allen and Renau Kennedy. He's from Australia, she's from the States, and they are ultimately going back to the land that has already given us Crocodile Dundee (one too many), INXS, and all sorts of unusual creatures. They come to us via such diverse and exotic places as Papua-New Guinea (most exotic) and Boston (most uncool). What is their Task? Allen is studying meteorites (that's in the geology department). As for Renau, she is writing her thesis in psychology for Boston University.

They were your average grad students/scientists (i.e. working and/or bored) until they decided to apply for the RA positions that were to become vacant at Dabney and Ricketts. After "visiting" the two houses and discussing them with the MOSH, they were chosen to become the Dabney RA's—a most unique job. Now what do they think about their new environment? They simply adore it. Not only do they love the diversity and friend-

liness that permeates the house, they believe that they can fit perfectly into this laid-back milieu. They have been "touched" by the warmth of the students' welcome.

Do they plan to change the character of Dabney? Certainly not. Dabney shall remain the cat heaven it has always been. Do they really care? They have been proving themselves daily since September and they seem to be doing an incredible job so far. Are they going to transform the house into an advanced base for the incoming Aussie conquest of the U.S.? I doubt it, although one never knows... And finally the question that has weighed second-heaviest on my mind (right after "What am I doing in this hellhole?") will the two RA cats (they're from that ubiquitous island-continent) have responsibility over their fellow cats? If so, to whom do they report?

[Historical note: these are not the first Australian RA's in Dabney House history. The Dabney RA's in the early 1970s, who helped preside over the final conversion of Dabney from the ultra-conservative House of Gentlemen into the Dabney we all know and love were—you guessed it—Aussies.]

Zewail Gets Ze Award

[OPR]—Dr. Ahmed Zewail, professor of chemical physics at Caltech, was presented with the Harrison-Howe Award of the Rochester, New York section of the American Chemical Society on October 11 in a ceremony at the University of Rochester. The prize is presented annually to individuals of exceptional merit who have contributed greatly to our fundamental understanding of chemistry. A significant fraction of awardees have gone on later to become Nobel laureates."

The Harrison-Howe Award is dedicated to the memory of Dr. Harrison E. Howe, a well-known chemist, editor and author. The award was established primarily to honor scientists in the earlier stages of their careers. Previous recipients of the award include Caltech faculty members Linus Pauling, Professor of Chemistry, Emeritus (1945); Harry Gray, Arnold O. Beckman Professor of Chemistry (1972); and John D. Roberts, Institute Professor of Chemistry, Emeritus (1957).

Competing against Tech were teams from UCLA, USC, and UC Irvine. All devices were judged on their apparent impracticality, creativity, complexity and their ability to actually perform the task of inflating a globe.

The contest was held as the highlight of a marketing conference for high tech companies and was sponsored by the accounting firm of Coopers & Lybrand.

As all Techers deserve to be rewarded for hard work, the Goldberg team won a cash prize of \$10,000. The money will tentatively be split between the five competitors as scholarship money.

The Harrison-Howe Award is the latest in a series of accolades that have recently come Dr. Zewail's way. In April, he received the King Faisal International Prize, one of the major international awards for achievement in the sciences; and in May he was elected—at the relatively young age of 42—a member of the National Academy of Sciences. His previous honors include both Sloan and Guggenheim Fellowships, the Camille and Henry Dreyfus Teacher-Scholar Award, and the ACS Buck-Whitney Medal. His innovative laser laboratory on the Caltech campus was also featured in the 1988 photo anthology *A Day in the Life of California*.

Searching
for "COMPUTER STUFF?"

Special \$186⁰⁰
Ready to Assemble
Reg. \$231⁰⁰

Q SALES 818 449-1590
2341 E. Foothill Blvd. Pasadena
1 block West of Sierra Madre
Computer Furniture & Accessories Home-Office

LOWEST AIR FARES

Atlanta	\$258.00 RT
Chicago	\$258.00 RT
New York	\$298.00 RT
Phoenix	\$38.00 RT
	
Bangkok	\$796.00 RT
Bangladesh	\$1046.00 RT
India	\$1165.00 RT
London	\$488.00 RT
Paris	\$668.00 RT
Tokyo	\$560.00 RT

More lowest fares are available.
Prices are subject to change.

Call (818) 794-0210

FREE WORLD TRAVEL

I

t's like getting paid to go to school.

Backpacks and frisbees abound. Challenge is in the air. Heated debates erupt from passionate beliefs.

Surprise! It's Microsoft. The premier software corporation in the world has more the feel of a college than a multinational corporation. Intellectual energy. Eclectic decor and dress. All on a modern, wooded campus in the eastern hills above Seattle.

Microsoft is better than college, however. You get your own room — a private office with a door. You have access to the latest microcomputer technology, as well as the brains that helped create it.

So now you don't have to give up the fun and excitement of college in order to make it in business. All you have to do is join Microsoft.

Ready for some real fun?

We'll be conducting on-campus interviews on:

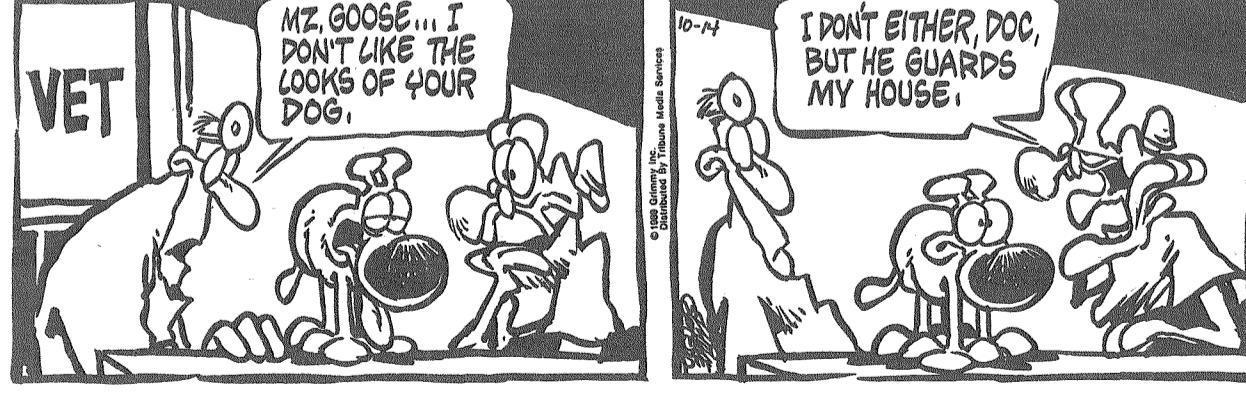
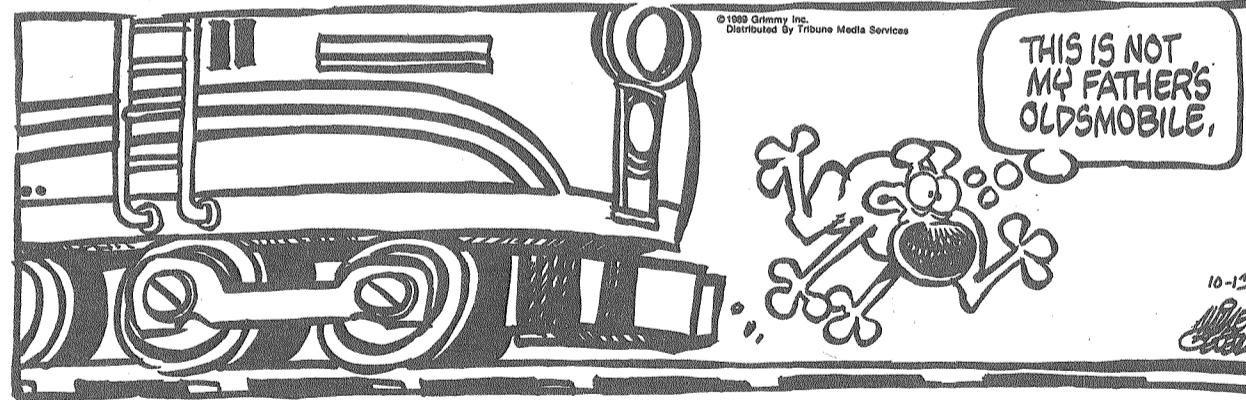
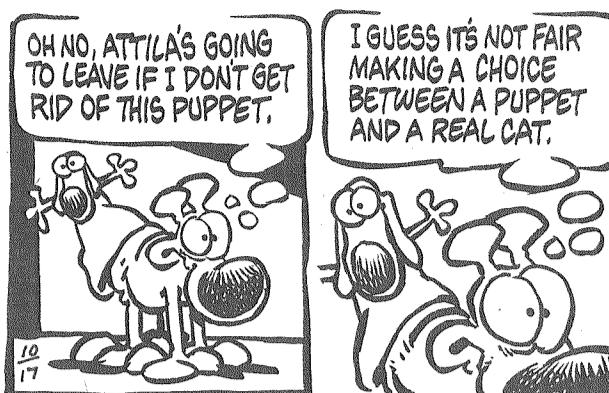
November 10, 1989

See your Career Planning and Placement Center for more details.

Microsoft

We are an equal opportunity employer.

HARDCORE
SOFTWARE



H.B. BENNETT TRAVEL AGENCY

The Finest in Professional Travel Services

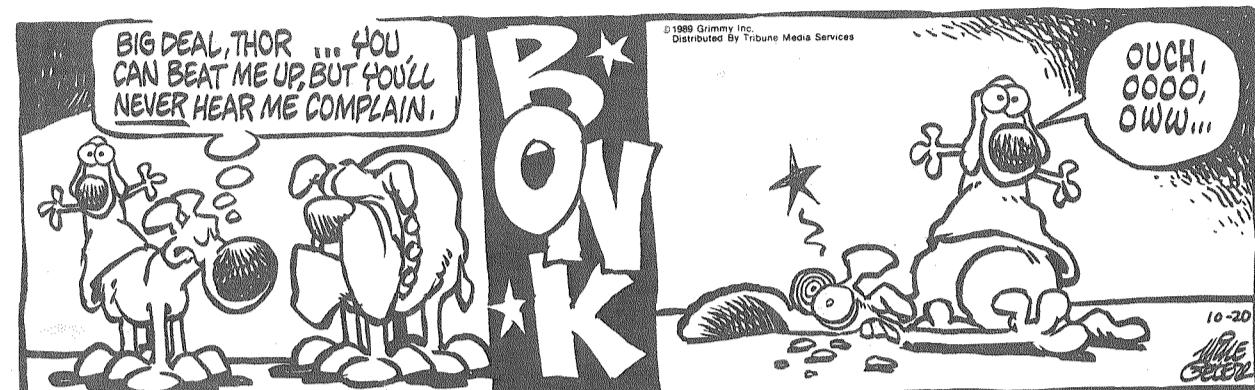
(818) 795-0291
(213) 681-7885

CAMPUS EXTENSION 3091

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

AMERICAN SOCIETY
OF TRAVEL AGENTS





UCLA SUMMER SESSIONS

*Every college student
is eligible to attend.
Registration is EASY.*

The 1990 Summer Sessions Calendar

First 6-week Session	June 25 - August 3
8-week Session	June 25 - August 17
10-week Session	June 25 - August 31
Second 6-week Session	August 7 - Sept. 15

Phone (213) 825-8355
anytime to place your name
on our mailing list for a
FREE Summer Catalog.

STUDY AT UCLA THIS SUMMER

Last night I read
the assigned chapters
in my sociology
book.

Today I went to
the class.

The professor said
almost exactly
the same thing
that was in the
book.

by Jim

I got up for class
early today and
was really tired
when I got home,
so I took a nap.

A couple hours later
I heard Tony pass
by my room. "What
a bum!" he said.

Jim's Journal

But I went back
to sleep and slept
till 6 p.m. and felt
great.

When I got up I
couldn't tell if it
was morning or
night, and I didn't
know if Tony's wak-
ing me up had
been a dream.

Today I was just
sitting around in
my room.

Tony came in and
said, "Hey, what's
the word for being
innocent in a trial?"

Awesome Punchline
on Page 11

Dabney

Answer to the Trivia Question of the Week: Air America. Social Event o' the Week: Tie-Dye Party this afternoon from 3-5:45.

The Gospel According to Santa Barbara, Part I

In the beginning Dabney created the heavens and the House of Cat Shit. Though the House of Ruddock claims to be the House of Cats, true believers know not to accept cheap imitations. Then God brought Pat and Kerin, and it was good. But they let the sin of procreation tempt them, and they had to leave the garden. Now the seed has borne fruit, in the person of one Raymond William. Bring him hither, and give him a pillowcase and a towel.

And lo, it came to pass that I came unto the Alley in the Sky, and came unto my room. But my room was changed, and the ghost of Elvis came unto me and said, "Verily, I say unto you, go henceforth from this room, for the House hath made ye move to and from the Alley in the Sky in one week's time. And come see my play." And the ghost handed me a flyer for the play, "Eight Sluts and a Pimp: A 'Go' Story".

I was puzzled and continued down the hall. A follower of the old Covenant stopped me and said, "Kind sir, 'tis not fair. 'Tis he who is handicapped." The wanderer had a strange mark on his nose in the shape of a Z. I demanded of him wherefore he wore this mark, and he replied unto me: "It marks me as a follower of the Great Messiah, who hath returned to the earth in the form of a cat with human hands. A Fool is God. God is a Fool. All hail the great Fool-God duality!"

And it came to pass that as I continued to walk down the hall, I saw myself in a mirror. Or was it I? It moveth like me, it talketh like me, it looketh like me. But it is not I—it is my evil twin! Stolen from my mother's bosom by the evil Benzinger family, he now returns to haunt me. As I pondered my reflection, a great bird flew down the hall and landed in room 41. The great bird spoke unto me and said, "Do you like my love nest?" She moved and lo, I saw a great floor covered in nothing but mattresses from wall-to-wall. And lo, the mirrors were everywhere, expanding the room forever into infinity.

I continued down the hall, and I saw a great sign rising above my head, and lo, the sign read: "Verily, she's enough to make a man impotent!" And lo, I saw a duke standing in front of me, but 'tis true, his heads were low. And he said unto me, "How can I show myself a hero proud and true to the women here if the upperclassmen always show me up?" And I said unto him, "Sometimes impotent men need to be shown up."

A scream pierced the hall. I ran to the room from whence the scream came, and there I saw a prostrate man. He foamed at the mouth and raved at the moon. He screamed and said: "Thou hast frustrated me for the last time! My family no longer calleth me 'Uncle Todd', Alan hath begun a competing music business, and everyone confuseth me with Keith Seitz! There is no reason for me to go on!" But at that moment, it came to pass that a strange-looking man with a page boy haircut came in to the room. His eyes were glazed and they rolled when he spake unto Todd: "Have no fear, my son! Try my fortified fruit punch and all your troubles will vanish like the wind!" And Todd drank of the cup of the page boy and munched of a wafer which I gave unto him, and he was refreshed.

And lo, seeing nothing else of interest, I descended the Endless Staircase to the Alleys Below. As I descended, I saw a woman ascending the stairs slowly, and I knew at last that her name was Kel-Lee. And as I continued, I saw a man pass me with the look of a man who hath the swelling of the loins. His eyes were bulging and his tongue hung out of his mouth. Verily, as he ran past me up the stairs, he tripped several times on his tongue and fell on the stairs. But I had no time to watch such folly.

And it came to pass that I arrived in the lounge, and there was much merrymaking. Many people were running to and fro under the influence of a strange elixir. Kwis W. tried to nibble on my neck, but I evaded him, though I was unable to avoid the Threatt of the man behind the curtain. As I struggled to escape, a man came up to me and said unto me, "Where is the nearest phone? I need to dial 1-800-EAT-SHIT." I pointed him toward the lounge and continued on my way. I passed room 24, and lo, I saw a woman kneeling down with a shiny new stethoscope. When I asked her what she was doing, she said unto me: "Hark! I am listening to see what I may hear." I replied unto her, "Whereto? I am out here."

And then I saw a great wall, which reached up to the sky, and the wall was almost all black. I touched the wall, and the ink came off onto my hands. I looked to the sky, and I could just make out the letters, "Lyttle T". But it certainly seemeth big to me. As I turned to go, I noticed a small missive attached to the wall, and lo, the missive read:

Mark Lyttle 0 0 0 0 0

Scott Kister 0 0 0 0 0

And it came to pass that I entered the courtyard, and I saw a giant mirror, which stretched as far as the eye could see, and many people were climbing up on top of each other to roast marshmallows at the focal point. And everyone was speaking, and it was verily a Tower of Babble. And when I left, they had nailed Steve Byers to a cross (since he was the only one too slow to escape) and stretching him toward the focal point. And he was trying to scream "Help!", but he couldn't form the words fast enough.

And as night fell, I noticed the time was 1:30 am. And lo, two men walked through the courtyard, and one was the MOSH, and with him he had a guard with handgun drawn. And they descended unto the Game Room, and the quivering MOSH sent the guard down first. The guard broke down the door, and they stormed in as I watched in horror. And I asked a fat redneck who was standing nearby: "Kind sir, what hath happened?" But he could not hear me, for the noise from the Game Room was intolerable. And then we heard the sound of machine-gun fire, and Sinc stormed out with his guitar case in hand. And the redneck and I looked at each other in horror, and we descended to the Game Room. But the MOSH was there, alive, and he spake unto us: "Weep not for me, for I always wear a bullet-proof vest."

And I felt a need to leave this weird place, and venture far afield....

—Santa Barbara

La Grotta di Capri Pasta House

Discount with Caltech ID:

Dinner for 2 for \$11.95
includes pasta dish
with soup or salad
and selected dessert

(818) 796-7652

1770 E. Colorado Blvd.
Pasadena

(parking in rear)

October 20, 1989 9

The Inside World

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

Blacker: Kevin Archie and Walker Aumann

Dabney: David A. Edwards

Ruddock: Nikhil Joshi

Ricketts2: Julius

Ricketts2: Dave Long, Dave Lomax, Dave Taub, and Stu Wagner

150 S. Chester: Chris Campo

Blacker

Well, we knew it couldn't last forever. It reared its ugly head a few times in the Purity Test, but we were willing to overlook that. Page even used it once to sign their inside world, or what passes for a Page inside world, and we let it go by again. But when the Veep uses it on an official house document, that is a different mattOR altogethOR. And now that it is free, we shall use it excessively until it dies once again. There was another proclamation made by the document, although it is of lesser import: the Official Alley OrdORing. About this alley ordOR, why is Vatican on top? First they get the Wall O' Whiteboard, and now this. What's next? Favoritism at its finest. Oh, I'm sorry, I means arbitrariness.

Q: What do you call the frosh when it takes them longer to shower the Veep tangled in string than it takes to shower someone normally?

A: WIMPS!

Blacker seems to have survived the on-campus housing crunch, although it has caused some crowding in Cannes. Current capacity of rooms 30 and 32 is estimated at 6 apiece. It almost outdoes the 8 people in room 16.

The mystic seer of the inside world predicts Danny Chu as the frosh work chairman.

A warning to all people currently living in doubles: Is your roommate a cutthroat? It may not be obvious, but your roommate could be cutting your throat right now while you are here reading. The following list of warning signs was given to us by the Friends of Lame And Incompetent Losers (FLAIL).

Your roommate going to bed early when you still have 3 problem sets left to finish, and then making lots of noise at 7am when they wake up to go to class.

Your roommate asking you for help, and then explaining in great detail why your elegant brief solution to every homework problem is completely false.

Your roommate complaining about how difficult a homework set was when you thought it was simple, and then proceeding to outscore you by an order of magnitude.

Important papers, receipts, homework assignments, CD's, books, pillows, etc. mysteriously disappearing and winding up in the trashcan.

Rumors that the Black Hand is exchanging milk and cookies for frosh are completely unfounded. The Black Hand exchanges zucchini for frosh. The zucchini is currently available in the coffeehouse while it lasts (about 30 more cases).

No, that's not a little t, dammit. The little t doesn't exist. We have concrete proof. A "little t", left alone for a period of more than 5 minutes, will come to the sudden realization that it, in fact, does not really exist. It will then disappear sheepishly, realizing its mistake. Furthermore, even if there were a little t, it would be lame lame lame LAME lame. Pataya is nowhere to be found in the restaurant reviews. It was bad enough when this fine publication (the Tech, of course) printed a "frosh survival guide" that ignored an entire food group (food bought at Pataya) but this is the last straw. So here it is: a blatant, shameless Pataya plug. Go to Pataya. If you don't know where it is, go to HO'M, stand in the living room, and yell "Pataya!" Someone will succumb and take you there. Trust me. And take a frosh with you.

Frosh, don't forget broomball tomorrow night. That is, after we start the Lloyd-Ruddock party for them. North house people need all the help we can give them.

Failing to even give Campo's ragging on Apostol the dignity of a response was apparently too subtle. Here it is, Chris: Look, okay, maybe you don't like the guy. Great. We don't care. Sorry, but you were way way WAY out of line. Going after the houses is one thing; we probably all take the whole house thing too seriously anyway. Taking cuts at one person isn't even necessarily too bad...but after a couple of paragraphs, it just gets silly. 'nuff said.

Chris Campo 1 (He's improving. He didn't say anything last week.)

Mark Lyttle t, where t is imaginary

Paul Socolow 5 - t (For being less offensive than some of the other editors)
(Remember, that's a logarithmic scale...)

- Eigenpenguin and his faithful dog, Fourier

ON CAMPUS

Meet Members of our Technical Staff

Seminar Date: October 25

Recruiting Date: October 26

Lincoln Laboratory professionals are at the forefront of unique Research and Development efforts across a broad spectrum of advanced electronics technology in projects ranging from component development to the design and construction of complex prototype systems. Every year, many of the finest Ph.D. and M.S./B.S. level graduates add their expertise and energy to our international reputation for excellence. We invite you to join them in one of the following areas:

- Radar Measurements
- Communications
- Signal Processing
- Optics and Lasers
- Microelectronics
- Digital Signal Processing
- Machine Intelligence
- Image Processing
- VLSI

Located at the heart of New England's high technology belt, a career at Lincoln Laboratories also puts you within easy reach of the region's most beautiful beaches and mountains — less than 15 miles from downtown Boston with its diverse cultural, educational and athletic events.

Contact your placement office to arrange interviews or send your resume to Karen O'Malley, Director of College Recruiting, MIT Lincoln Laboratory, 244 Wood Street, Lexington, MA 02173. (617) 981-7050. U.S. Citizenship required.

An Equal Opportunity/Affirmative Action Employer



The Inside World

Ricketts

10:48 pm. The rain outside had stopped, leaving on the Walk puddles reflecting the neon lights of Fleming's Bar and Grill. The sky glowed with the gleaming light of nighttime LA. I typed the reports of the last case over a cigarette, my most interesting if not dangerous one so far. Strangely enough it involved the office building in which I rent a seedy eight-computer room—Ricketts House.

My name's Orange. I carry a .5 mm Scripto with sight, and I usually work for suspicious wives and separated twins. This week came the usual cases of misspent youth—rumors of romance flying hither and thither in the Ricketts employee lounge. Who knows what will result come next week? I was able to uncover a tragedy of love and two incipient romances—one amazingly enough, involving Ricketts president Dick-Bob and his main squeezable. Could hormones be disturbing the balance of the corporate head? I'll have to analyze our president further, but I have already examined his kinesthetic aspects and broken down his infamous use of the middle digit. In a resounding primal count at dinner Dick-Bob saw the fists flying and needlessly ducked down under the banquet table. Could this be collusion among the fascist students of Ph12a? Or is it the result of some sinister conspiracy perpetrated at 4 am? I'll have to stay awake and see. In a totally unrelated incident a disturbance shortly before 7:30 Monday was reported. Sounds of strange banging was heard in all the hallways and people poured out to attack the intruder. Unfortunately it seemed the electrical system had frozen all the doors shut. But it was reported by an eyewitness that a sperm-bank donor was seen beating a brakedrum. Later another report claimed that at 11:00 pm at least thirty people were struggling on top of each other on the athletic field. Security was called but by the time they responded the pile had disappeared. Apparently a guard saw a junior masquerading as a frosh vanishing downfield with a brakedrum facsimile. I inspected the field and found it scorched and gouged. Obviously the result of a UFO landing. I'll ask Dr. Surface to examine the sky, because on Saturday night residents of S. Holliston reported a "flashing bright light" emanating from the Frame House. Loud obnoxious noises were heard in conjunction with the strange photoelectric effect, and occasionally the ground shook to repeated pounding. Upon further investigation the cause was determined—Billy Idol. Paul and Steve were seen playing with the strobe, and Julius saw in 2-D from staring at it too long. Dand "lost" his shoe courtesy of Paul and Dan'l of all people was seen dancing to bad rhythm and blues. Glands do strange things to Dan'l. Screaming orgasms were served up and Ricketts Corp. (not to be confused with Dabnicorpse) got trashed. On Wednesday the Lloyd Insurance Company fielded a softball team for the sole purpose of crushing the Ricketts Rrrrooompick Corporation. It seems that with stupendous pitching by a first-year shipping clerk who goes by the name "Amoeba" the Lloydies were cut down 8-7. The athman was promptly moistened for his gall at recruiting such an able team; the corporation must maintain a steady work output at all hours. The first-year trainees seem to be fulfilling this requirement nicely, but in a boring fashion. In other sport news a disco-volleyball challenge to Fleming's Bar and Grill was nearly forgotten in the excitement of Rotation, yet still the ath team managed to escape a moistening. So a week of sports went. Ricketts trainee adviser Perma-snatch has decided to join his brethren and will be in So. Carolina for a Rrrrooompick convention. Advisory alert: he may be armed with a tire iron or epee. The top five missing persons: 1. Steve Hwaaaaaaaang! who has only been seen on Monday, Tuesday, and Wednesday between 11 and 12. 2. Glennammons but only because he's probably sleeping. 3. Joanna "29"—last seen screaming "Save Tristy!" Who is Tristy? 4. Jen—last seen entering Greg's room. 5. Leopold—last seen slinking with glasses and hair obscuring most of his face.

11:18 pm. The last typing done, I got up and checked the neighboring computer, on which Ina was flailing since MacWrite was alien to her. I finished my last beer and cigarette and checked my trusty Scripto for clogging. Outside the rain had begun again. I stayed and proofread until the wee hours until suddenly the door opened and the bombshell asked for help. I forgot about the Inside World about then.

from the files of Orange Julius, 3.14159

The Inside World

Ricketts2

Back by popular demand, and ruder than ever!

We seem to have received complaints at our laxity of gratuitous lies and slander. We heretofore promise (unless we don't feel like it) to piss off, annoy, lie about, outrage and offend in any manner possible, as many people as possible, even if we must resort to the truth.

Rich seems to have lost even the bobbed dick since his cowardice at dinner has shown him to be completely penileless, as he ran away from his much deserved floating. Snap, crack! Snap, crack!! The whip is relentless. Rich jumps at even the call of "Herm and Sperm". Even worse, the two of THEM were (unfortunately) observed by numerous unhappy bystanders skipping hand in hand to dinner. (Gag, barf, vomit, puke, regurgitate, and otherwise cause ones alimentary canal to act in a reverse manner.) An anonymous source has threatened that on a recurrence of such an event, THEY shall be served up unto like the BEAR. Rich has also been rumored to have been seen going to class. What can this mean for the future?

There aren't enough frosh to paint Gonzo's ass blue. (They can't even get me out of the kitchen.) Fleming sucks, then it spits or swallows. At least the Moles gargle. On that note, a certain unnamed Lemming president was once again seen with a certain nubile jung frosh (both first and last name beginning with a 'J') enjoying himself (but not her) at the Frame Party.

Congratulations to the Frame House for receiving a contract from Betty Crocker for their awe-inspiring (and high achieving) brownies. Unfortunately, a three block radius was inadvertently etherized (and the Flems downwind wondered why they were having so much fun) in an attempt to calm down the dancing. Only one unhappy, unnamed and unsmashed person (name beginning with an 'M') puked, completely missing the hundreds of plainly labelled depositaries.

Redhead Corner: Leah continues to break hearts in the lounge with her hands. A voodoo doll looking like Gonzo with a pin through its chest was seen in her room. Congrats to Linell for an excellent DJing job. However, someone should have told her that all the people left two hours ago. Rachel still missing. Karin stealthily stole handouts in Bi 11 revealing her secret kleptomaniac tendencies.

Greg: watch out for those chain link fences next time. We have nodoze. Bernie says 'Goddamn it, it's all in the 151 though.'

Andreja.

Ina: we know what you did. You can't hide from us. Bruises tell all. Use a rubber hose next time, it doesn't leave marks.

Coherence. Ivar. Piss off.

The skull on a Prexy balcony IS Scott's dad's. (Not his ex-girlfriend's.)

Frosh of the Week: Q, just because he cum after 'M'. Couple of the Week: Joanna and Tristy. Oh, no! Tristy's on the bottom again! What will Plu say? Will Plu join? Can I join? We'll find out tomorrow, same frosh (tasteless)cookies, same frosh room.

O.

Now it's time for your and my favorite sexion (drumroll, please): Rude and Slander Corner (with new and improved violence, sex, lies and half the calories of regular slander): CAUTION: Those with weak egos should be accompanied with a parent or sex partner. Carlos' kitten: Speed Bump or Dog Food? Katrynn seen avoiding men again. (As well as women, small furry animals and skeletons) Beth in tears, Leopold doesn't know as many digits of pi as he claimed. Joanna ruthlessly rips out the heart of her ex on the phone, BEAR tells all. She's presently setting Eric adrift as her next victim. (Just like American beer.) Heil, Kirk! Our favorite Aryan defender of our precious bodily fluids (not those of Chris' infatuation). Sobelkisha seeks to avoid eyes of BOC by trading sexual favors with Lindsey Dubb. Paul shattered, but consoled by Greg. Dinky and Mary seen explaining advanced sexual yoga to gawking frosh. Phyllis squashed, not to mention Dinky's car (poor Kirk). Frank confused: Is it Kitt, or is it Mammorex? Glenn and Tom continue to keep score. Snake can only pull ahead by Meera going psychotic and chopping the left foot off of everyone in Snake and burning them in the pot while reading Tommy backwards. This, however, is far easier than their other alternative: beating the Frame House for combined lowest purity score. Nathan seen foaming at the mouth when shown pictures of a naked wild boar. Brain Chaffin seen foaming elsewhere. Subscription to Playboar on order. Better yet, steal the photo album from Flemming lounge. Plans underway for erecting a turgid Ricketts penis complementary to the Flemming cannon. Safe sex interhouse? Watch for the full body cans of plasti-dip. From now on, no more references to Flemming (or sheep, for that matter). Frosh still have their doors. Sophomores, stop blowing each other and get your asses in gear. Juniors: get your asses out of gear and start blowing. (For the frosh: the candles out) Answer: 4 yeses, 0 no's and one demonstrated yes. Question for this week: How can you tell when a woman has an orgasm? English groans of pleasure accompanied by Yugoslavian cries of ecstasy echoing Up Your. Ross sulks. Prepares noose. Health advocate saves the day with emotional counselling. This after coming to the rescue when bodacious bleating issued from the RA's suite. Hasn't anyone told Luca about boots? Chris Pollett is a bobohead. Monica seen sneaking into Joe's room, crowbar in hand. Alas, Joe was absent, forcing her to return to her lonely single. Satomi doing Russ? Russ doing Scotty? Scotty doing Ina? Ina doing everyone???? (Bend over, I'll drive) Life can suck sometimes, love will suck sometimes (but will it swallow?), but people will fuck you over all of time. (Personally, I prefer to be fucked under)

-Messialess Dave

150 S. Chester

Chris is Pissed

These are solely the views of Chris, who is pissed, and not necessarily those of ASCIT or the editors.

This time it's the Coffeehouse. I used to love going to the Coffeehouse as it was a place to hear good music, read good comics, and eat the best shakes in the world. But there are a number of things which have made eating in the Coffeehouse a less pleasurable dining experience, to put it mildly.

Firstly, who's the genius who decided to replace the traditional styrofoam coffeehouse shake cup with a weak excuse for a drink container which is essentially a giant dixie cup? Also, when I ask for a blueberry Oreo milkshake, I want a blueberry oreo milkshake. Not a plain blueberry shake. It's bad enough that I get the shake in that cheap-ass cup. I could at least get the shake I order. Another thing that gets me steamed is that the Coffeehouse got rid of the Manny, Moe, and Jack. It used to be that I could ask for my favorite sandwich, the Jack, and receive it with no problem. Now when I ask for the Jack, I get this tape-recorded message from the person working behind the counter: "I cannot make a Jack. According to new Coffeehouse procedure you must completely fill out sandwich form 133-M4A. Hand me the completed form and I will follow it step by step to make your sandwich." Why do I have to fill out a sandwich form just to get a turkey and cheddar sandwich?

Now besides the problems with the coffeehouse management, there are a number of irritations caused by the Coffeehouse clientele. Now going into the Coffeehouse with barefeet is one thing, guys, but putting those grubby feet up on one of the tables is quite another.

And then we have some of these messy assholes. You know the ones. The guys who leave all of their plates and napkins, along with the remains of their meal splattered all over their table. These are probably the same squeebz who take out a pile of comics to read and don't put them back when they leave. Not only does this cause me to have to go sifting through the debris throughout the room to find the one particular comic I want to read because it is not on the rack, but it also insures that the waiters get to spend an extra thirty minutes or so at the end of the night putting comics back on the rack. I'm sure they love you guys for that.

And why aren't Brooks and Capellari working in the Coffeehouse anymore? I want them back. A good evening's worth of entertainment used to be provided by watching the interplay between Brooks, Tom and the various unfortunate customers who happened to wander in. The obnoxious Brooks-Tom combo is a must see, and I think the Coffeehouse should replace some of those squeebz waiters with these two. Next time I go down to the Coffeehouse, I want to see the good old styrofoam cups, the Manny, Moe and Jack back on the menu, and a big banner on the door saying, "Brooks and Capellari—Together Again."

But, uh, Rich and Jerry, this is just my opinion and not that of ASCIT as a whole. I just loved that condescending little note of yours which stated, basically, "We, the heads of ASCIT, could take control of the situation and censor things since ASCIT is responsible for publication of the Tech, but this time we'll design not to intervene." Well, that's just my interpretation and not that of ASCIT as a whole.

Oh, and to the grad student who wished me a better day, thanks. Thanks, but I don't think I'm going to. If you're wondering why I'm so pissed, it's because my life just hasn't been too rosy here at Tech, and, well, I'm pissed about it. Until things get better, you're going to be hearing a lot from me.

PRE-DOCTORAL POSITIONS M.I.T.

Molecular, Chemical, & Genetic Analysis
of the Chemical-Biologic Interactions
Related to Cancer & Genetic Disease

Whitaker College of Health Sciences and Technology
Graduate Program in Toxicology

Faculty

	Area of Interest
John M. Essigmann	DNA repair and mutagenesis
James G. Fox	Gastrointestinal microflora & endogenous carcinogens
Steven R. Tannenbaum	Chemistry of macromolecular adducts; nitric oxide
William G. Thilly	Mutational spectra; mechanisms & genetic epidemiology
Gerald N. Wogan	DNA adducts & genetic change in carcinogenesis
Helmut Zarbl	Transformation effector & suppressor genes, oncogenes; gene expression

Full support (stipend and tuition) is offered to all accepted candidates.
For program information and an application, contact

Debra A. Luchanin
Academic Administrator
Division of Toxicology
Room 16-330, M.I.T.
Cambridge, Massachusetts 02139
(617) 253-5804

MIT is an Equal Opportunity Employer.

The Inside World

Ruddock

Damn I feel good! Whooooooooooooohoooooo! It's good to be a Senior! But hey, you pay your dues to get here, right? Just ask the Juniors, they're paying through the ass right now... In blood. Yup. I feel good. Like I should.

562134. That's all you need to know. And 4 over 3 by just a few feet. I was informed that I might have offended some people last week in the Inside World, well not Techers, but maybe a parent or two. Ooops. What? Me offensive? Naaahhhh, never. I'm just so fucking sweet, you could all shit. Right? Like I really care...

Questions of the Week

- Which North House President, whose first name begins with Duppy, was found on a waterbed sporting women's lingerie and hugging a giant inflatable rabbit, with little bits of foamy saliva hanging from the corners of his mouth? (Duppy wants this to be "kinda, sorta true..." Forget the saliva....)

- Which Alley 6 UCC is desperately seeing red (and curly...) lately? Or trying to see. He's going blind you see, just look for the hairy groove in his palm.

- Why is Kathleen walking around with her arms spread three feet apart and saying "that much!" with a smile on her face?

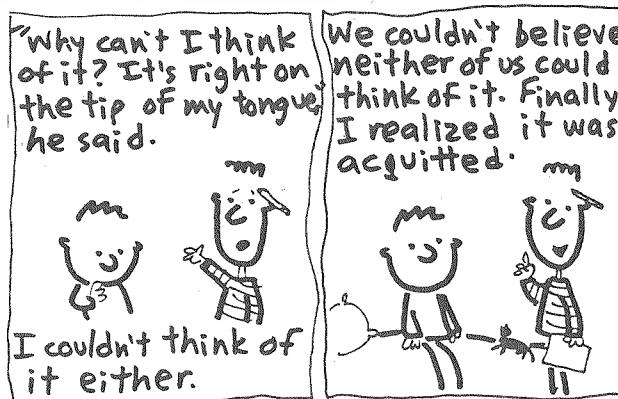
The Bay Area earthquake kinda nuked our idea for San Francisco Interhouse. So you can all look forward to Monster Island. Build Interhouse Frosh! The GAAC went off pretty well. I learned I never want to sleep with Richard Song, he damnwell nearly crushed my ribs during Isolate the Dead. Hey Larry, I think our mutant deserved far fewer than the four points we got. The scariest part about it though was how natural Duppy looked licking the broccoli. Licking the broccoli. I like it.

The softball team is lame. Enough said. Party this Saturday in our courtyard with Page and Lloyd. Theme? Well I like Milliken's Island, though South of the Border Fiesta Frenzy might go over. You'll just have to come and see for yourself. We're starting a pool, betting on when Larry and Celia leave to celebrate. Party with Fleming and Lloyd on the 28th. Be there. In costume.

This is late, I gotta go. Maybe I'll be angrier next week when I write this again.

-Cynical (but happy)

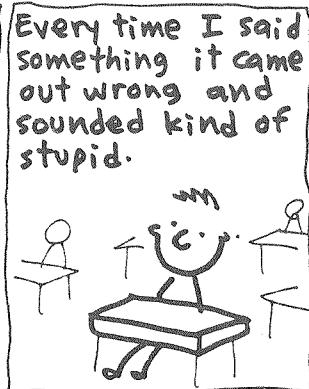
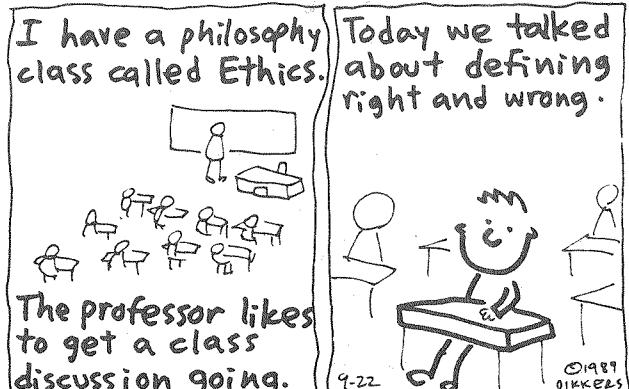
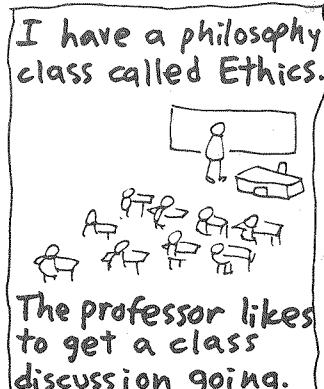
Awesome Punchline



Jim's Journal by Jim

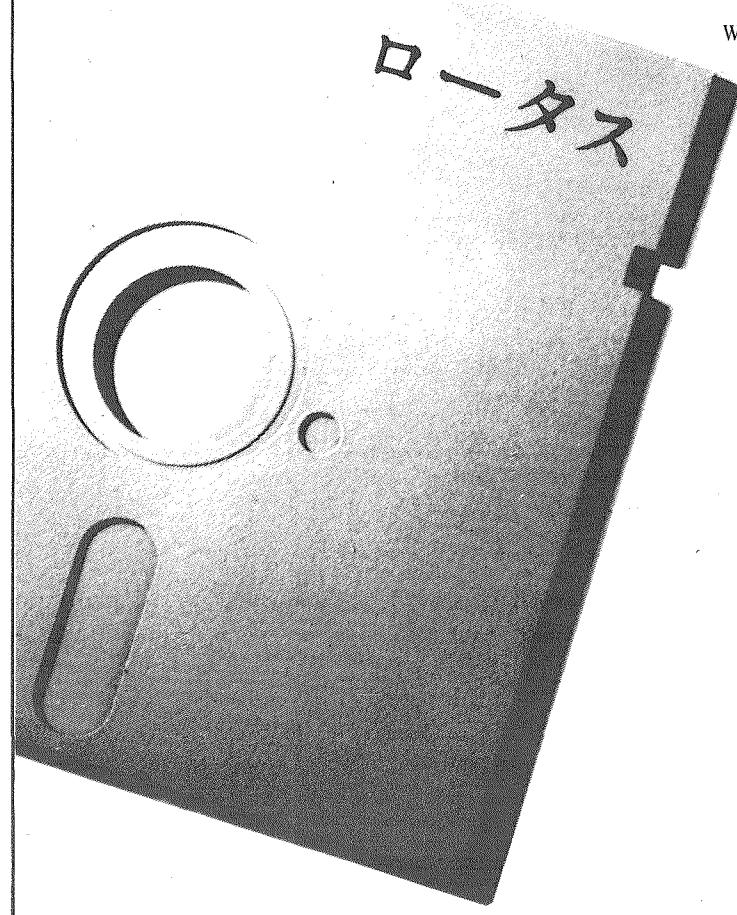


Blacker	1 2 1 4 2 10
Dabney	2 3 2 6 4 17
Fleming	0 0 3 2 0 5
Lloyd	3 0 0 7 0 10
Page	0 1 0 1 0 2
Ruddock	0 4 0 8 5 17
Ricketts	0 0 0 5 3 8
150 Chester	0 5 4 3 1 13



	Cowboys at Caltech	USC at Notre Dame	N.C. State at Clemson	Illinois at Michigan State	Tennessee at Alabama	Michigan at Iowa	Oregon at Arizona State	Auburn at Florida State	Arizona at Washington St.	Texas A&M at Baylor	Georgia at Vanderbilt
Scott Kister (26-7)	Caltech	Notre Dame	N.C. State	Michigan St.	Tennessee	Michigan	Oregon	Florida State	Washington St.	Texas A&M	Georgia
Mark Lytle (24-9)	Caltech	Notre Dame	Clemson	Michigan St.	Alabama	Michigan	Oregon	Auburn	Arizona	Baylor	Georgia
Paul Socolow (23-10)	Caltech	Notre Dame	Clemson	Michigan St.	Alabama	Michigan	Oregon	Florida St.	Washington St.	Texas A&M	Georgia

Lotus blossoms in Japan.



ロータスは日本で最大の規模を持ち、最急速の成長を続けているアメリカのソフトウェア会社です。

Lotus is the largest, fastest growing American software company in Japan.

ロータスの1-2-3 Release 2Jは、売上200,000ユニットという大好評で迎えられ、その結果、日本の

Overwhelming response to 1-2-3® Release 2J has pushed sales over 200,000 units, making

マーケットは、私どもの製品の海外市場として抜群の急成長を成し遂げました。今や日本マーケットは

Japan our fastest growing overseas market, and one of our primary focuses for growth in the 1990's.

1990年代を通じ「ロータス」の全社的な成長を支える重要なファクターの一つとなっています。

So you see, you don't have to leave Japan to go to work for one of America's most prestigious software companies.

このことから、これからは、日本国内でアメリカ最優秀のソフトウェア会社「ロータス」のメンバーとして

We have made a long-term commitment to the Japanese market, to understand the characteristics that make it

活躍できる時代が到来したといえましょう。

unique, and to deliver the highest quality products and service to our Japanese customers.

私どもは日本のマーケットに対する長期的なコミットメントを鮮明に打ち出し、日本市場の特殊性を

And you can help. With new product development, quality assurance, and

充分に理解し、最高品質の製品とサービスを日本の顧客に提供する決意を固めています。この

adapting Lotus products to the Japanese market.

プロジェクトにぜひ参加してくださいませんか。新製品の開発、品質保証、ロータス製品を日本市場に

To stay the best, we hire the best. Come join Lotus Japan in Tokyo and

適合させる仕事など、力になっていただきたい重要な分野で、実力を心おきなく發揮してください。

enjoy the sweet smell of success. Please send your resume to Lotus Development Corporation,

ベストと評価される地位を維持するため、私どもはベストな人材を常に必要としています。

Dept. MG, 55 Cambridge Parkway, Cambridge, MA 02142. An Equal Opportunity Employer.

東京の「ロータスジャパン」の一員となって、ともに成功の喜びを分かち合おうではありませんか。

Come see us at the Career Forum at the Hynes Auditorium, Boston, MA, Oct. 27-29, 1989.

1989年10月27~29日開催のCAREER FORUMにぜひお出かけください。

Lotus.

* Lotus and 1-2-3 are registered trademarks of Lotus Development Corporation.
© 1989 Lotus Development Corporation.

what goes on

Submit announcements for What Goes On from 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. Indicate the date(s) the announcement must run. Announcements for the current issue must be received by 5 pm Tuesday and should be shorter than 75 words. 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.

Soccer, Anyone?

GSC Soccer is starting again this year. If you are interested in joining a team or forming your own team, please contact the Athletic Director, Dan Bridges, at x6146. Play will be in two divisions: A League, for advanced players, and B League for beginner-intermediates.

Waiters/Managers Needed

Looking for a job? The Caltech Coffeehouse has plenty of openings. See Jeanine Connealy in the Student Activities Center, Room 64. Note: Due to staff shortage, the coffeehouse may not have regular hours unless we can resolve this matter soon.

Russia Trip

Interested in visiting the Soviet Union over spring break and experiencing "glasnost" and "perestroika" first-hand? The 2nd-year Russian instructor at Caltech, George Cheron, is planning to repeat the previous years' highly successful trips. The cost is \$1859 (includes everything: air fare, hotels, meals and tour guides). Trip duration - 11 days, including two days in Copenhagen. Open to students, faculty, staff, and their friends. A group roster will be drawn up at an orientation meeting next Tuesday, October 24, at 12:30 pm in Dabney 2. For more information call x3615.

Ray Bradbury in Pasadena

Yes, that Ray Bradbury, author of *The Martian Chronicles* and a host of others. He will be signing autographs and talking to people at Planet 10 bookstore at 79 N. Raymond Ave. on Saturday, October 21 in the afternoon. For details, call 577-9309. No admission fee or purchase required.

Big T Info!!!

The 1989 Big T's are in! If you were a Caltech student during the 1988-89 academic year, see one of the following people to receive your Big T:

Blacker - Matt Kidd
Dabney - Elaine Lindelef
Fleming - Alecia Chen
Lloyd - Craig Sosin
Page - Scott Dolin
Ricketts - Glenn Tesler
Ruddock - Matt Fetter
Or drop by the Big T office (SAC Rm. 27).

If you submitted pictures to the Big T and would like them back, write on a piece of paper the picture's page number, location on the page (e.g., bottom left corner), and content (e.g., people in the picture) TODAY, Oct. 20, 1989. After this date, the Big T is not responsible for whatever happens to the pictures. The Big T mail code is 27-58.

Mechanical Universe

Watch *The Mechanical Universe* every Tuesday from 10 pm to midnight and every Thursday from 9 pm to midnight at the Y Lounge, upstairs in Winnett. Freshmen, upperclassmen, grads and faculty are welcome. Refreshments will be provided.

Putnam Exams

The William Lowell Putnam Mathematical Competition will be held this year on Saturday, December 2. Please sign up quickly, in Sloan, if you wish to take it. As usual, we hope many participants will enjoy a day of math problems and donuts.

CLASSIFIED ADS

HELP WANTED -

MACINTOSH PROGRAMMERS. All shapes. All sizes. Call Delta Tao (818) 578-1808. Ask for Tim.

EASY WORK! EXCELLENT PAY! Assemble products at home. Call for information. (504) 641-8003 ext. 8738. Open 7 days.

LEGAL SERVICES -

EXPERIENCED IMMIGRATION ATTORNEY. Located in Culver City. Small consultation fee. Call Max Skanes. (213) 559-1369.

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.

JPL Arts & Crafts Fair

From Friday, October 20 to Sunday, October 22, an arts and crafts fair will occupy the JPL Mall, with proceeds to benefit the Child Educational Center. There will be over 90 booths of handcrafted goods, as well as entertainment, food and children's activities. Admission is free, and so is parking. Hours: Friday, 3pm to dusk; Saturday & Sunday, 9 am to 5 pm. Special auction on Sunday at 1:30 pm. Take the Berkshire offramp from the 210 freeway to JPL, 4800 OakGrove Drive, La Cañada. Park in the Visitor's parking lot.

Halloween Folkdance Party

The Folkdancers will have their Haloween party on October 31 this year. Everyone welcome. Come in a costume. Prizes for the best costumes. Potluck & live music by the Gypsy Horns. Teaching of dances at 7:30, open dancing at 9:00 pm in Dabney Hall Lounge.

SURF Seminar Day

Saturday, October 21st is SURF Seminar Day, from 1:00 to 4:30 pm in various locations around Caltech. Information on times and locations available on October 21st on the 1st floor of Spaulding Laboratory of Chemical Engineering. Topics include the discovery of supernova 1989N, an analysis of fraud in the Aid to Families with Dependent Children program, teaching mathematics in Namibia, and ground-based observations of Neptune during the Voyager flyby, as well as 100 others.

History Film Series

Every Monday evening at 7:30 pm in Baxter Lecture Hall, there will be a free film shown as part of the History Film Series. These films are open to all members of the Caltech community.

The October 23rd film is *The Power and the Glory* (U.S., 1933 - Preston Sturges). Railroad tycoon Tom Garner - played by Spencer Tracy - wasn't the industrial monster everyone thought he was, argues his valet. Preston Sturges wrote *The Power and the Glory* (1933), called the "most perfect script ever." Forshadowing *Citizen Kane*, but juiced with all the cynicism of the Great Depression.

Modern German Film

The film *Munchhausen* (1943), directed by Josef v. Baky, and starring Hans Albers, Brigitte Horney, Ilse Werner and Gustav Waldau, will be shown on Wednesday, October 25 at 7:30 pm in Baxter Lecture Hall. The film, in German with English subtitles, is shown in conjunction with L 132. It is adapted from Erich Kastner's novel about the adventures of Baron Munchhausen, who is known for his fabrications of unbelievable stories. The film shows remarkably strong colors.

Society of Physics Students

The Society of Physics Students will be meeting this Sunday, October 22. Anyone who would like to teach science concepts to secondary school students should come to Clubroom 1 of Winnett at 1:00 pm. Also, anyone interested in building a robot should come to Clubroom 1 at 2:00 pm. There will also be a Feynman film in 201 Bridge from 3-4 pm, and a physics help session in Clubroom 1 at 7:00, with free pizza and drinks.

ACADEMY BARBER SHOP

27 N. Catalina Ave., Pasadena
Open Tues.-Sat., 8 A.M.-5 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

LORENZO'S BARBER SHOP

Unisex Hairstyling

Ask for Your Caltech Student Discount!

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

scholarships

Scholarship Listings

The Financial Aid Office has applications and/or information on the following scholarships. All qualified students are encouraged to apply. The office is located at 515 S. Wilson, 2nd floor.

The National Space Club is awarding a \$7500 scholarship for the academic year 90-91 in memory of Dr. Robert H. Goddard. The applicant must be a U.S. citizen, in at least the junior year with the intent of pursuing undergraduate or graduate studies in science or engineering. The deadline for application is January 5, 1990.

The Gloria Fecht Memorial Scholarship Fund is offering a scholarship of ranging from \$1500-2000 to a young woman attending a university in California or Arizona. Applicants must have an interest in golf and financial need. Applications must be mailed on or before March 1st.

The American Scandinavian Foundation of Los Angeles is awarding scholarships for 1989. Upper and graduate students with demonstrated interest in Scandinavia, majoring in business, arts, science, linguistics, and music, are encouraged to apply. Applicants must have strong academic qualifications and must show financial need. Deadline for application is November 15.

The Coors Veterans' Memorial Scholarship Fund is offering scholarships ranging from \$2,000 to \$5,000. Applicants must be sons or daughters of Honorably Discharged Veterans, active military personnel Killed in Action, Missing in Action, or Died in the Line of Duty. Applicants must also be under the age of 22 as of March 15, 1990, have completed a minimum of one semester of college with a minimum 3.0 cumulative GPA. Deadline is March 15, 1990.

CAFA, the Chinese-American Faculty Association, is providing several scholarships to undergraduate students of Chinese descent. Applicants must be taking 12 quarter units or 8 semester units with GPA of 3.5 or above and graduating after May 1990. Applicants will be selected on the basis of GPA and extra-curricular activities. Deadline is December 15, 1989.

The National Roofing Foundation is pleased to announce the availability of scholarship awards for 1990-91. Full-time undergraduate and graduate students enrolled in architecture, engineering or other curriculum related to the roofing industry are eligible to apply. Deadline is February 1, 1990.

The Society for the Advancement of Material and Process Engineering is offering numerous undergraduate scholarship awards. Engineering students with a minimum 3.3 cumulative GPA are eligible. Deadline is February 1, 1990.

The Churchill Foundation is a predominantly engineering and science-oriented college at Cambridge University.

Applicants must be U.S. citizens between the ages of 19 and 26.

The deadline to submit a complete application to the Deans' Office is November 15th. Caltech can nominate two candidates to the Churchill Foundation.

Cambridge Graduate Fellowship

Applications are available in the Deans' Office (102 Parsons-Gates) for the Churchill Scholarship program. The one-year graduate study award is available to graduating seniors and graduate students. It includes full tuition, a \$4,000 living allowance, and a \$500 travel allowance. Churchill College is a predominantly engineering and science-oriented college at Cambridge University. Applicants must be U.S. citizens between the ages of 19 and 26.

MANDARIN CUISINE & SEAFOOD

ENJOY A DELICIOUS MEAL ESPECIALLY PREPARED FOR YOU BY OUR AWARD-WINNING CHEF

LUNCH SPECIAL CLASSIC DINNERS

11:30 a.m. to 3 p.m., from **395** Sun-Thurs 3-10 p.m.
Choice of 13 Entrees Fri-Sat 3-10:30 p.m.

EARLY BIRD DINNER SPECIAL

3 p.m.-7 p.m. DAILY

Choose from 13 items

ONLY

2475 East Colorado Blvd. (818) 449-8018

(between Altadena Dr. & Sierra Madre in Pasadena)

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



THE CALIFORNIA TECH

40-58 SAC CALTECH

Pasadena, California 91125