

On a sad note, Joe Fierro is suffering from an illness, similar to that of ex-captain Mark Lyttle, in which he can't race on Fridays. Coach O'Brien tried entering his name as Joe Figrud in the last meet, but to no avail. Joe has missed the last two weeks of practice searching for a cure. The track team hopes he discovers it in time for today's race.

# THE CALIFORNIA TECH

Orson, it was really Chris Campo who called last night.

Volume XC, Number 24

Pasadena, California

April 28, 1989



In the tradition of photos a week after the article, here is Caltech's most triumphant team that journeyed to New Mexico Tech. Take note of Chris Hurwitz standing on the right, the best body in all of New Mexico.

## Are You Ready For An Earthquake?

by Steve McLaughlin and Jeff Hagen

Imagine if you will... spending four days alone, in primitive conditions with only the barest of essentials and your own animal instincts to survive. If Southern California is hit by a major quake you may find yourself in this situation in a matter of minutes.

If you walked by Dabney gardens last week, you may have noticed a small tent pitched among the trees, concrete benches, and relaxed Caltech security guards. This was the temporary home of Jack Popejoy, a local radio news anchor. He was part of a promotional event sponsored by station KFWB and the Los Angeles City Fire Department for earthquake preparedness month.

Jack spent four days alone, simulating the conditions which would occur after a major earthquake. He existed only on a simple home earthquake survival kit, which he put together in a few minutes before beginning his 'ordeal'. Although, his 'simple' kit in-

cluded a cooler, a grill, a clock, a folding chair, he was TOTALLY isolated from the world except for a telephone link to his station and his broadcasting equipment.

He subsisted on canned fruit and bottled water, and whatever meals he could prepare on his charcoal barbecue. For personal hygiene, he used Wet Wipes and a small camping toothbrush. Needless to say, Jack's reactions to his experience were mixed. "I'm glad I remembered deodorant," and, "I lost all sense of time and perspective." were some of his typical reactions to his "disorienting" ordeal.

Although some may turn up their noses at his 'bravery' for spending four days in a garden guarded by a security guard, nevertheless he did illustrate some important points about surviving the Big One. Most importantly, anybody, for a little bit of money, can and should put together a survival kit which will make the first days after a quake just that much less traumatic.

## ASCIT Needs More Money

The ASCIT Board of Directors is seriously considering raising the dues of the corporation's members by \$5.00 per term. We believe that an increase is essential if ASCIT is to continue to fulfill its commitments to the student body.

The need for this step was first noticed during preparation for the annual budget meeting. We found that deducting our fixed costs from the expected income of the corporation left only \$5400 to be allocated to clubs and spent on unplanned activities and expenses this year. By reducing the budgets of the Executive Social Committee, IHC, and BOC, and making optimistic estimates of some of the fixed costs, we were able to expand this

to \$12000. Club requests for funding totaled over \$20,000, but by application of the criteria outlined in the pre-budget survey we were able to pare this down to be a well justified \$11,500. Note that this leaves ASCIT with an operating budget of about \$500 for the entire year, along with a heavily trimmed social budget. The latter is, in fact, down to what was actually spent last year, which was particularly lean in terms of ASCIT social offerings.

In view of the above, the Board feels that an increase in dues is unavoidable. It might be said that ASCIT is due for a raise; the most recent increases have been in 1980, 81, and 84. Provided below is a

summary of ASCIT's balance sheet, as documentation of expenses and the need for increase, and have also taken the opportunity to publish the list of clubs that were budgeted funds this year. It is the Board's opinion that the quantity lost to administrative costs by previous Boards is somewhat excessive. The Board aims to

continued on page 2

### BOC Secretary Elections

Nominations for the recently vacated office of BOC secretary will be open until Wednesday, May 3. Statements for the *Tech* are also due by Wednesday, at dinnertime. The election will be held Friday, May 5.

### ASCIT Formal Signups

The ASCIT Formal is here again. Sign up in your house or reserve space by calling Mike Salisbury at x3691 or 578-9652. See next week's *Tech* for discounts to students on tuxedos and flowers.

## Baldeshwieler Awarded Tolman Medal

[OPR]—Dr. John Baldeschwieler, professor of chemistry at Caltech, has been awarded the Tolman Medal for broad accomplishment and continuing contributions in the field of chemistry. The medal is given

each year by the Southern California Section of the American Chemical Society to an outstanding researcher working primarily in southern California. It will be presented to Dr. Baldeschwieler on May 1 in a ceremony at the Athenaeum.

Established in 1960, the Tolman Medal commemorates the life and career of the late Richard Chace Tolman, professor of chemical physics and mathematical physics at Caltech from 1922 to 1948. In addition to his many accomplishments in chemistry and physics, Dr. Tolman was a pioneer in the field of cosmology and, following World War II, an active advocate of increased participation by scientists in government.

In a statement announcing the choice of Dr. Baldeschwieler, Dr. Erwin Fishman, chairman of the Tolman Medal selection committee, said "John Baldeschwieler's career, including brilliant advances in pure science, projection of these advances into practical technology, and extensive public service to his government and to the international scientific community, makes him a most worthy recipient of the Tolman Medal."

Dr. Baldeschwieler's research career has been distinguished by creative work in a wide range of fields, including physical chemistry, biochemistry, and instrumentation development. He has made fundamental contributions to nuclear magnetic resonance, a technique whose uses today range from studies of molecular structure to medical imaging of body tissues; to ion cyclotron resonance, where he pioneered applications that opened up new ways of studying significant chemical reactions; to extended X-ray absorption fine structure; and to perturbed angular correlation of gamma radiation. In connection with his X-ray research, he developed a small-angle X-ray camera that has been used in studies of muscle and eye tissues.

continued on page 7

## Please, Be Careful If You Drink

Friday night, January 20, 1989  
A 120-pound, inexperienced, low-tolerance freshman begins drinking alone in his room. There is no one to monitor his consumption, no one to stop him when he's had enough. After 6 wine coolers, he ventures to a friend's room and downs a liter of a Long Island Iced Tea. In less than an hour, the night's alcohol takes full effect. Common signs of intoxication turn into convulsions, forced breathing, and a state much worse than passing out.

The house RA calls an ambulance, and the freshman is taken to Huntington Memorial Hospital and spends the next few hours under close observation.

A few hours later in the emergency room, he wakes up, still shaking, very cold, very confused. Not only are the night's events erased from memory, but the entire week before that. Not one day gone, but six days disappeared. He never will regain that part of his life. That Saturday morning he returns to his room to sort out his next move alone.

Monday he talks with friends, and although they insist that nothing has changed between them, he still senses that they are hiding negative feelings.

Today most things have

returned to normal. The student has desperately tried to put the event behind him, but it still won't let go. Ambulatory, hospital, doctor's and other fees are still adding up, presently in excess of \$800 for just six hours of hell, the student ineligible for insurance compensation.

I am not proud of what I have done. I write this article not for sympathy, not for publicity, not for any great cause to reform society. I do, however, submit this in hopes of making just one person think about what can happen the next time he or she either offers someone a drink or tries something that is considered "harmless" by most.

Back in September during Rotation, alcohol was everywhere. It was acceptable and common for the new frosh to enjoy a few drinks. The attitude of nearly all the hosts was that encouraging a little alcohol consumption wouldn't hurt anyone. After what happened in January, I disagree.

Once I knew I could drink and not be treated as a criminal (as parents usually consider you), the caution I took around alcohol decreased, almost to zero. No, I didn't start drinking heavily immediately. In fact, the only time following Rotation when I did sip something was at dinner the night

before the January incident. But my attitude had changed from "Alcohol is dangerous" to "As long as you drink smart, it's just fine." The problem with my new attitude was that the pressure we all experience at Caltech sometimes makes it impossible to drink intelligently. The first drink makes the next one all that more inviting.

We all probably believe that under pressure we can handle any situation, or at least that's what I thought. However, I was not myself. My real self wasn't there to watch over me. I had been changed from what I knew and trusted to someone acting, feeling, and behaving like the character I had feared I would become.

I don't blame anyone but myself for what happened. Nevertheless, had I been less vulnerable to negative influences early in the year, it's quite possible I would not have had to experience the suffering.

When you openly consume alcohol around those not accustomed to it, you are not doing them a favor. Peer pressure still means something in college. It is not something that goes away after high school. No one has the right to encourage drinking, and this includes not only the direct offering of a drink to someone, but the "innocent" acts of carrying around a

bottle and wildly advertising a party because there's free alcohol. I have seen parties here where there is control over who is served alcohol. I respect those responsible enough to take on this thankless task, even when it prevents themselves from having fun and when it doesn't seem good for his or her public image. When those responsible for the party don't do their jobs, that is what bothers me the most.

I am very wary of alcohol now, and never should have changed that attitude in the first place. I suppose I can consider myself lucky in that I am alive after a night of alcohol poisoning. I won't touch a drink in a long time and cannot tolerate anyone telling me, "Well, as long as you drink in moderation, don't worry." I started that Friday night moderately, but as you can see it didn't end up that way. I had plenty to worry about.

Go ahead and do what you want. There's little I can do to change your mind. But that's the whole point - it's your choice, and yours alone. It always has been and always will be. Be careful so you won't put yourself or someone else through all the things I had to. All things considered, it's just not worth it.

# LETTERS AIDS Discussion Group Informs Students

## Ref Rebuttal

To the Editors:

On Thursday, April 13, Fleming and Lloyd met for Interhouse basketball. Lloyd crushed Fleming with a 13 point victory. Chris Habecker's letter last week implies that the refs were responsible for this outcome. We are all aware of Fleming's style: 1)play rough and bitch when a foul is called on you, and 2)play rough and bitch when a foul is not called on your opponent. It is therefore a bit surprising to find Habecker bitching about an alleged incident in which a foul was not called on his opponent. If this incident did occur, I apologize for not giving Habecker a technical; but neither ref recalls such a stupid move by Fleming. As to Habecker's accusation that we tried to influence the game through our reffing, I find this personally insulting and feel that an apology is in order. We reffed objectively, and Habecker's insinuations are merely the feeble attempts of a Flem with injured pride and no basketball skills to avenge a wrong that was never committed.

-Carl Feierabend  
Page House 1-53

## Apathetic Administration

To the editors:

I have been following the arguments about bad teaching over the past few weeks in the letters to the editors columns. I'm writing this anonymously because I don't want to become the focus of a new argument, and because I don't think the previous arguments have been answered by the administration. The first letter was addressed to President Everhart, and he never responded. There was no response from the administration to any of the follow-up letters, either. This shows the apathy of the administration toward student concerns, and it's very disappointing and offensive that they don't even bother to write a short note in the *Tech* on the subject.

-anonymous

First in a pair of articles

by Josh Kurutz

"The idea that AIDS is not a Caltech problem is wishful thinking," said Dr. Amy Ross during the AIDS panel discussion held in Ricketts House Tuesday last week. The informal gathering of Dr. Ross, three people who tested HIV positive, and about 40 students was an advanced part of the effort to educate Caltech undergraduates about AIDS; five houses have hosted similar question and answer sessions already and the remainder probably will in the future.

The primary motivation for the existence of the groups was to "give techers contact with real people with HIV... to humanize the disease," according to Lee Rowen, one of the organizers of the program. The discussions were intended to be safe environments to ask any question about AIDS, according to Rowen. Such questions were hoped to cover political and social issues as well as information about transmission, prevention, and the biology of the disease.

The necessity of gut-level acknowledgment of AIDS and its related responsibilities was recognized by Ross. "Everyone is now very educated... but college students have admitted they would lie (about issues including AIDS) to obtain sex," she said. It was thought that personal contact with people who were HIV-positive would make the realities "hit home."

One way the panelists helped give AIDS personal importance for the students was discussing how it had affected their lives.

### Positive Outlooks

Panelist Scott Schumacher said that realizing he was HIV-positive made him aware of how much life is worth. He expressed, "We have a lot more strength than we give ourselves credit for." Further con-

templation on the subject led him to believe being HIV-positive, "is not the end of the world."

Bruce Cook, another panelist, asserted, "You can live a normal life if you are up to it." Ross' information that the period between infection by HIV and appearance of physical symptoms can be as much as ten years supports his claim.

Many people infected with HIV have very positive outlooks on life. Cook said, "I'm feeling better than I have in years because I'm taking better care of myself." Schumacher said, "I have allowed myself to see what I wanted in my life. I've learned more about life, love, courage, and so on than I had my whole life before (I tested positive)."

Panelist Stephen Howard approached the same subject from a different angle. He said that a great deal of attention is paid to "the art of dying" in AIDS support circles. He said that "how to die" workshops abound, adding that many come with a money-back guarantee. Howard found that these groups actually taught how to make life more fulfilling. He realized that, upon analysis, living and dying, "are almost not distinguishable."

As was evident from talking with Howard and reading recent *Doonesbury* strips, humor plays a large role in coping with AIDS. "PWAs (Person With AIDS, plural) are really funny. I love going to their parties," said Howard.

Many people involved with AIDS hope that the positive effects of the disease they have seen on a personal level will extend to society as a whole. "I tend to get hysterically optimistic about crises," said Howard, "I hope it will make us take a long, hard look at how we, as a society, treat each other."

Though much of what was heard was uplifting, the panelists

assured the others at the gathering that AIDS has very real negative qualities.

### Buttered-Side Down

People infected with HIV must deal with human mortality. "People who are fairly young who are facing death have a great deal of spiritual ground to cover in not much time," said Howard. He added that they must say to themselves, "I need to get my soul where it needs to be before I die."

Coping with positive HIV test results can be very traumatic; different people handle it in different ways. "I drank a lot and listened to a lot of Gilbert and Sullivan," recounted Howard; "Those were the most depressing six weeks of my life." Cook said that he felt relieved because he had a definite result after years of suspicion and worry. All panelists agreed that AIDS support groups were invaluable in helping them deal with their predicament.

Some at the gathering speculated that people with HIV may consider engaging in "antisocial activities." Howard sarcastically responded, "Yes. I thought of peeing on bag ladies." Cook said, "Yes, some people have a 'take no prisoners' attitude." The panelists did assure the group that such people are rare.

Handling relationships takes on a different flavor when one has HIV. Schumacher asked himself the question, "Will someone ever be able to love me again?" He added, "You're scared to tell the people you go out with. Once you tell them, they leave." Even so, he was well aware he had to tell them. "You have something in you that could kill the other person."

The largely sexual nature of the disease makes AIDS different from other deadly illnesses. Howard summarized his situation, "I would

like to grieve (over my lover), then get over with it and go about my business, but I can't (because I am now infected)." He also said that he was a little angry at the loved one over the infection.

### Flip Side

The panel benefited both attending students and panelists, though in different ways. It was hoped that the students were touched as intended by the personal level of the discussion, perhaps to the point of actually altering their behavior (well, for those fortunate enough to have a sexual behavior). The panelists found it personally rewarding.

"It's a personal challenge to see if I can keep someone from entering the wonderful world of AIDS," said Howard.

"I learn more from talking two hours with you guys than reading 27 journal articles on the attitudes to AIDS of college students," said Ross.

"It's very rewarding to be part of the education process," said Cook. Schumacher agreed, "Education is the biggest thing."

## ASCIT Dues

from page 1

reduce it as much as possible to assure students of a greater return on their dues, and intends to be able to fully document the remaining spending, something which has never been done before.

The decision to raise dues, however, is not one that the Board can make alone. In compliance with the ASCIT bylaws (Article XIII, Section 1), this proposal must be voted into action by a two thirds majority through a general election. Such a poll will be held in the near future. We hope that the publication of this information and statement of intention is enough to convince you that the increase is necessary for ASCIT to continue to play a major role in undergraduate life.

### 1989-90 ASCIT BUDGET

Salaries:  
Tech Editors \$ 1500  
Big T Editors 500  
Big T Assistants 400  
Little T Editor 400  
CLUE Editor 400  
Publications Darkroom Chairman 150  
UROH Editor 100  
Total: \$3450

ASCIT Organizations:  
Athletics 1500  
BOC 1000  
IHC 400  
Social Committee 10220.13  
Research Handbook 600  
Movies 6100  
Totem 1000  
Total: \$20820.13

Loans:  
Total: \$2140

Other Costs:  
Insurances 3000  
Telephones  
Secretarial 4000  
Supplies  
Overhead  
Total: \$7000

Clubs:  
Total: \$11589.87

Approximate Income: \$45000  
Less Above Expenses: \$45000  
Surplus: \$0

### Clubs Budgeted for 1989-90:

The Y  
Medieval Renaissance  
Men's Glee Club  
Student Shop  
Cinematech  
Cheerleaders  
Headbanger's  
IVCF  
Debate Team  
SPECTRE  
Vietnamese  
Alpine  
Women's Glee Club  
Korean American Stds.  
The Newman Center  
GSC Sports  
CCSA  
Flying Team  
Hawaii  
Go  
LDSSA  
Ultimate Machine  
Biathlon/Triathlon  
SEDS  
Hillel  
Chess

To contrast similar financial predicaments of ASCIT in the past, Examine the history of recent dues increases:

Dues	Increase
1979	20
1980	25
1981	45
1984	60
1989?	75
	20%
	80%
	33%
	25%

# Y News

## CALLING ALL MUSIC FANS!

Discover the roots of classical Western music in an amazing performance of Classical Turkish music. The Yasar Quartet is taking time out from their cross-country tour of the U.S. to perform HERE! The music is built on authentic scores dating back to the Ottoman empire, and involves a tradition of

both instrumental and vocal improvisation. This concert should be of special interest to jazz musicians and anyone interested in the art of improvisation, and anyone who wants to broaden their perspective of what music really is. The concert is this Tuesday, May 2, at 8pm in Dabney Hall, and is free to the Caltech Community. An Authentic Turkish desert will be served.

## For Those of You Who Missed GODZILLA ASCIT FRIDAY NIGHT MOVIE

Presents:



THE  
LAST  
EMPEROR

A True Story.

WINNER  
9 ACADEMY  
AWARDS

With: Sneakers

Baxter Lecture Hall  
\$1 for ASCIT members

7:30 & 10:30 p.m.  
\$1.50 for others

Next Week: *The Witches of Eastwick*

## THE CALIFORNIA TECH

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April 28, 1989

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sports

# Men's Tennis Wins Two More -Season Ends On High Note

by **ThunderChris**

Winning two of the last three matches, Caltech's men's tennis team carried its momentum into this week's matches, defeating La Verne (LV) 6-3 on Saturday and Christ College (CCI) 8-1 on Tuesday, the last two matches of the regular season.

Having already smashed LV earlier in the season, Caltech knew what its opponent had in store. With CIT's women's team cheering them on, the Beavers engineered their way to an impressive victory away from home.

In Caltech's number one spot, Raleigh Chiu easily disposed of his opponent, trashing him 6-4, 6-4. Chiu played consistent tennis, hitting clean winners at the net and putting away all the garbage thrown at him. Playing number two, Dan Pang hammered away from all points of the court and forged a tough match, but lost in two sets. #3 Anh Tuan Le discovered an inventive opponent, and lost the first set. Le found a groove and stayed on serve in the second, but the LV player stole the set in a close tiebreak.

David Garza, #4 for Caltech, dropped his first set relatively quickly, but picked up the pace and rolled to a 1-6, 6-3, 6-1 sinking of his LV opponent. Lloyd Farnham, fifth for the Beavers, also stumbled in his first set, but jumped right back into the match and sprinted to three set victory, 0-6, 6-4, 6-3. To round out the singles matches, Hemant Keny chopped up his opponent, butchering him in two pounding sets, 6-0, 6-0.

In the doubles matches, Pang

and Le paired up in the first spot and cleaned up with a 6-4, 6-3 bleaching of the LV players. Chiu and Garza, in the second position, fell slightly behind their opponents, but made a good showing in a tough two set loss. Keny and Jimmy Ng, in the third doubles match, fired up and burned their opponents in a 6-3, 6-3 conflagration.

Returning home with another win under its belt, Caltech found a higher notch of play and strangled Christ College on a cold, windy day in Pasadena. Chiu, again in the top spot, played with amazing, simply dumbfounding his opponent. Keeping returns low and tricky and placing shots only inches from the lines, Chiu frustrated the CCI player and went on to an easy 6-2, 6-1 victory. #2 Pang, winning the first set easily, seemed to be heading for a breeze of a second when his opponent stormed back from 1-5 to force a tiebreak. Yet Pang showered him with lightning groundstrokes and net play and came away with a 6-1, 7-6 win.

Le, in the third position, played smoothly and deliberately, orchestrating a fine two-set performance, winning 6-4, 6-1. Garza, fourth singles, rifled over his opponent, shooting from the baseline and picking off returns at the net, gunning to a 6-2, 6-2 victory. Farnham, reading his opponent's moves immediately in his match, railroaded over the CCI player, steaming to another win, 6-3, 6-0. Keny, with his lightning serve and groundstrokes, flashed to a 6-1, 6-0 finish, blinding the CCI opponent with a brilliant display of fireworks.

With the match already won with a sweep of singles, the doubles matches got underway with three new pairings of partners. In the first doubles spot, Chiu was replaced with freshman Chris Ho, in his first varsity match of the season. Ho and Pang started off well, but found difficulty in maintaining a high level of doubles play, falling in two sets. (Author's note: I'm sure that with more time and experience, Ho's game should develop quite nicely.)

In the second doubles spot, although dropping their first set, Mike Freeman and Keny found a rhythm and played some of the best doubles of the day. With the right combination, Freeman and Keny roared back to an impressive 4-6, 6-4, 6-0 comeback victory. In the last doubles match, Farnham and Ng paired up against the CCI third pair and also played well to win their match.

With the victory over Christ College, Caltech ends its season on a high note, winning four of its last five matches. Come out Saturday, April 29, as the entire tennis squad engages in a full day of singles and doubles action, and cheer on the seniors in their last appearance at Caltech. And wish them all luck as they go on to the SCIAC Tournament in early May.

(And from this writer to the team: It's been great writing for you guys, so let's make sure we do well vs. JPL and in SCIAC so I can write another article, OK?)

(Ho - "Any advice, Dan?" Pang - "Just play tennis.")

And the smiles and winning spirit continue...

# CUM Spurts To Victory

by **Marty O'Brien**

The newly formed Caltech Ultimate Machine competed in its first tournament last Sunday at UC-Riverside. The team played three ultimate matches, the first team to reach 13 goals winning. Winners of all three games advanced to a playoff round to determine the tournament winners.

Caltech's first opponent, the host UC-Riverside Smaug, proved to be tough opponents. The Smaug, led by a guy who bore more than a slight resemblance to Mack Rhinelander, worked well together and built up a 9-5 lead. After a short time out and inspirational talk from grad-turkey Kurt Griesel, the Machine returned to the field to finish the game. Playing psycho-defense and inspired offense, the Machine scored three goals in a row, gave one up, scored another three in a row, gave another one up, and caught the frisbee in the goal another two times to finish the match with an inspiring 13-11 victory.

The Machine then took its one game winning streak into a match against UC-Irvine. The Irvine team, who as far as any of us knew

had no name, proved to be too strong for the fledgling Tech team, as Irvine's smooth offense and sophisticated defense carried them to a 13-8 triumph.

Riding on a wave of hope, the Caltech Ultimate Machine entered its third and final game against Occidental. In this final contest of great skill, the Machine jumped out to an early 4-1 lead. Caltech capitalized on numerous Oxy mistakes and ran up the score. The sweet fragrance of victory in the otherwise stale Riverside air served to revive the tired Tech team. The final result, a humiliating 13-4 win by the blossoming Caltech Ultimate Machine. Such a victory was a new experience to many of the team's players. As senior Mike McDonald put it, "I've never been on a team at Tech that has completely dominated anyone like that."

The Caltech Ultimate Machine is still looking for a few good men. If you are currently a student (graduate or undergraduate) and would like to join us, contact Eric Hassenzahl, 578-9086. Our team showed great promise, and hopes to do well at Sectionals this weekend in Irvine.

# Track PRs Aplenty

by **Scott Kister**

The track season is finally coming to an end. That means warm weather, easier practices, and PR's (personal records.) The place to get the records was the Pomona-Pitzer Invitational, where there were over 1100 entrants, including some from a school in Utah, an Australian club, and teams from all over California.

Since there was no team scoring in this meet, Caltech athletes entered just one or two events each without worrying about racking up the points.

For the women, Bibi Jentoft-Nilsen had a blazing finish in the 800m. She came from almost last place to third by running her second lap two seconds faster than her first. Her time of 2:26.8 was her best ever. Emmeline Naranjo ran her best time ever in the 100 hurdles, 18.9. Liz Warner jumped 16'4" in the long jump, and 32'5" in the triple jump.

On the mens side, the mile relay team of Hillyard, Hu, Raguin, and Tetzlaff set a school record of 3:35.3. In the 1500m, Dan Flees finished in 4:23.5, Mike Mahon ran 4:32.3, his best time ever, and Chris Goddard just missed his PR with a 4:59.7.

In the 100, Tom Tetzlaff ran his best time of 11.7. Dan Kollmorgen was right behind in 12.0, and Dave Ross finished in 12.6. Tom Tetzlaff also entered the 200m, running a 24.2.

Sean Hillyard continues to improve in the 400m, running his PR

of 51.5. Ray Hu ran a strong 2:02.8 in the 800. Also in the 800, John Raguin ran his best time of the year, 2:05.3. Dan Flees came through in 2:08.4, Mike Mahon in 2:11.8, and Eric Stout in his best of 2:17.8.

Every Caltech entrant in the 5000m ran their best time ever. Scott Kister, 16:49; Chris Campo, 17:06; and Derek Slye, 18:19.

In the field events, Gary Eastvedt long jumped 19'1". Randy Stevenson pole vaulted his best ever 12'0", and Albert Lee vaulted 11'0". Johnny Tsai hurled the discus 105'1". Johnny is having trouble controlling his great strength, however. In practice this week, after a long battle with the discus cage, he finally won, breaking the protective screen.

Bill Swanson triple jumped 37'8", and high jumped 5'8". Randy Ralph and Gary Eastvedt each high jumped 6'2". Steve Harkness put the shot 39'8".

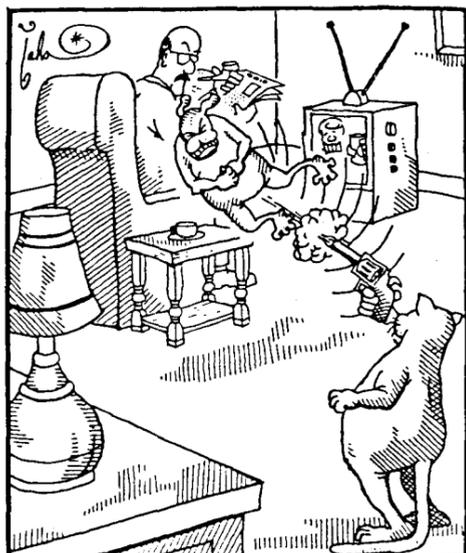
The SCIAC meet this Friday and Saturday is the only remaining meet this season. The men can tie for fifth out of seven in the conference by beating Whittier and La Verne. The women have a chance to finish as high as fourth. The final dual meet records were 16-5 for the men and 17-3 for the women.

## WEEKLY SPORTS RESULTS

Day	Date	Sport	Opponent	Results
Fri.	4-21	Baseball	Pomona-Pitzer	2-8
Fri.	4-21	Track	Pomona-Pitzer Invitational	There was no team scoring in the meet
Sat.	4-22	Baseball (2)	Pomona-Pitzer	3-17, 4-8
Sat.	4-22	Tennis (W)	La Verne	3-6
Sat.	4-22	Tennis (M)	La Verne	6-3
Tue.	4-25	Tennis (W)	Christ College	7-2

## WEEKLY SPORTS CALENDAR

Day	Date	Time	Sport	Opponent	Location
Fri.	4-28	12 noon	Tennis (W)	SCIAC Tournament	Clare-Mudd-Scripps
Fri.	4-28	TBA	Track	SCIAC Championship	Pomona-Pitzer
Sat.	4-29	TBA	Track	SCIAC Championship	Pomona-Pitzer
Sat.	4-29	All Day	Tennis (W)	SCIAC Tournament	Clare-Mudd-Scripps
Sat.	4-29	12 noon	Baseball (2)	Pac. Coast Baptist Bible College	P.C.B.B.C.
Sat.	4-29	1:30 pm	Tennis (M)	J.P.L.	Caltech
Mon.	5-1	All Day	Golf	SCIAC Tournament	Occidental
Fri.	5-5	12 noon	Tennis (M)	SCIAC Tournament	Pomona-Pitzer
Fri.	5-5	3:00 pm	Baseball	Occidental	Caltech
Sat.	5-6	All Day	Tennis (M)	SCIAC Tournament	Pomona-Pitzer
Sat.	5-6	11:00 am	Baseball	Occidental	Occidental
Sun.	5-7	All Day	All Of Them	Caltech Sports Day!!!	Caltech, of course



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Odyssey

In a typical scene that illustrates dogs' natural sense of loyalty and cats' lack of, Spot selflessly takes a slug that was meant for their owner.

This Crime Beat-less paper is brought to you by Chris Campo, ex Crime Beat Editor

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ENTERTAINMENT

Ethel Tyson or Mike Merman?

by Nick Smith  
 Call Me Ethel!  
 Pasadena Playhouse, The Balcony Theatre, (through April 30)

Contrary to popular belief, live musical theater does not consist entirely of *Les Misérables* and *Phantom of the Opera*. In fact, this tiny play in an even tinier playhouse, is an outstanding piece of musical theater, and has an on-stage cast of only two! And only one with any lines!

*Call Me Ethel!* is a wonderful salute to Ethel Merman. For those of you only familiar with Ethel Merman as a figure to be made fun of in comedy routines, think of her this way: at her prime, Ethel Merman was the Mike Tyson of Broadway musicals. And, no, I'm not being forcibly cutesy. She was that dominant, over a period of 20 years. And she didn't just sing a song, she belted it into next week. In the play, she (as played by actress Rita McKenzie) quotes others as saying she's "as ingratiating as a 3-ring circus" and has "a voice you can hear all the way to the box office." And it was true.

To give you an idea of how big a Broadway star Ethel Merman was, almost every theater company

that has done a musical comedy has done one of the ones she made a hit: *Annie Get Your Gun* and *Gypsy* are ones she opened. *Hello, Dolly* is the one she initially turned down, but later came back to close. Her Broadway career covered the really prime days of Broadway comedy, from the 1930s through the 1960s.

Rita McKenzie does a spectacular job of capturing Ethel Merman, the music, the personality, even the physical presence of the woman. Ethel Merman was a woman who had George Gershwin, Cole Porter and Irving Berlin writing her material, and took it in stride. Rita portrays her in such a way that you can understand why and how she sang and lived as she did.

The play is in the form of a singing monologue from Ethel Merman to her agent, trying to explain the things that should be in a movie about her life. The play ranges from the hits (from Broadway to romance) of Merman's life to the bombs (bad songs, Hollywood fiascos, the death of her daughter).

I found the most powerful part of the play to be McKenzie's recreation of Merman's role from *Gypsy*. For those of you not

familiar with the musical, Merman played Mama Rose, a dominating stage mother. No, actually, she played the dominating stage mother, an almost archetypal figure. As McKenzie/Merman puts it: "She was the stage mother that ate Broadway."

The play, co-authored by McKenzie and Christopher Powich, was directed by Powich, with musical direction (and on-stage piano) by Peter Blue. The costumes are simple, with the exception of the Statue of Liberty costume (trust me, you have to see it!), but convincing and imposing.

This is a show that I highly recommend to anyone who ever loved Broadway musicals. The director has stated that he would like to return the show to California, so there is a small chance of seeing it later, but try to see it before it closes. (Warning: the tickets aren't cheap, but they're worth it.)

The Pasadena Playhouse is at 39 S. El Molino, just south of Colorado and west of Lake Ave. Call 356-PLAY for ticket and showtime information.

ASCIT MINI MINUTES

Present: Jerry, Rich, Marty, Gary, Russ, Shubber, Steve Jun, Alecia, Curt, Richard Hsu, Woolverton, Jason, Harkness, Mike, Pam, Mark, Paul, Gavin, Bappa, Dave Ross, Mark Fey, Jason, Dwight

4-25-89 10:36

Woolverton has a quick discussion about last year's little t and the list of student home addresses that was supposed to be out at the start of this term. Not much idea. Get one of last year's editors to the next meeting.

Russ uses the Jam Room for sessions with his professional band, that really needs a space such as the Jam Room for their practices since it is fairly cheap. Because of ASCIT's ruling last week, their privileges were revoked for further consideration. Russ would like his membership back, because his band needs to practice. Rich is concerned for the security of ASCIT-owned equipment in the room and the security of the Jam Room is being worked on presently. Russ can come back in a couple weeks to apply for membership.

Steve Farris, the present BOC secretary, went on voluntary leave. In the interim, Jerry appointed Mark Fey, temporary BOC Secretary. There has to be an election for a new BOC Secretary. Read the announcement on the front page of the *Tech*.

Class officer signups will also be on the MOSH's door.

It appears that to satisfy ASCIT's larger budget, ASCIT dues will have to be increased. For more discussion of this read the article.

The bylaw change vote and elections for BOC Secretary and class officers will all happen on May 5.

Dwight wants Rushdie for the Graduation speaker.

The BOD decides who they want for new BigT business manager to replace Bassem. After interviewing Richard Hsu and the team of Shubber Ali and Steve Jun, it is decided that Richard Hsu is the BigT business manager.

Talk about the compensation due for the BigT business manager. The motion that passes gives the manager the total commission on any ads he obtains, while he gets half the commission of any ads Bassem already has gotten a verbal OK from.

Rich goes into a long, tedious discussion of the old "What should we do with last year's BigT editors?" question. The editors have submitted a proposal that they will give back a total of \$225, or \$75 apiece. No one knows how they came up with that figure, but some members admit the damage they did was fair-



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D O M I N O ' S P I Z Z A

ly minor. Dave Ross says, "You can get in a lot of trouble for a little joke." Basically since Gino has given back the amount of his salary requested by ASCIT, and the other editors haven't given back any, any stalling now only hurts Gino, because the BOD seems to feel that the previous BOD was too severe to the editors.

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- Modern English, *I'll Melt With You*
- Tone-Loc, *Funky Cold Medina*
- Roxette, *The Look*
- XTC, *Mayor of Simpleton*
- REM, *Stand*

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- Swans, *Greed*
- Bauhaus, *Burning From The Inside*
- Living Color, *Vivid*
- Guns 'n Roses, *Appetite For Destruction*
- Golden Palominos, *Visions of Excess*
- Jimi Hendrix, *Radio One*
- Ministry, *The Land of Rape and Honey*
- Skinny Puppy, *Cleanse, Fold and Manipulate*
- The Jesus and Mary Chain, *Darklands*

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# Help Kids The Inside World

by Golda Bernstein

Don't you hate that sinking feeling from knowing that you really, really, REALLY misunderstood an assignment? Don't you wish someone would always explain at least the general idea behind a problem before you spend hours on it? Well, tough luck, pal, you're in college now. But it shouldn't happen in elementary school...

"Here's my homework, Mrs. Dewinkle. But I don't think I did it right."

(Hands in sheet of note paper. On top is printed "S-a")

"What is this, Ellen?"

"Mrs. Ray Pemover said we had to write an S-a and hand it in today. Did I get it right?"

Like it or not, this scenario actually happened with a 3rd grader in the Pasadena Unified School District. Funny, maybe, but not too encouraging for the kid. Pasadena schools need volunteer homework helpers to help kids from first grade through high school with their studies. All they want from you is one hour a week to spend away from Caltech with a bunch of kids. Transportation will be provided if you can't provide your own.

If you think you might be interested in helping some kid figure out what's going on, call me (Golda) at x3739 or the Y at x6163. You can have gifted, disadvantaged or even ordinary kids, any age, any subject, and you don't have to know anything in particular. And besides that, it really is only one hour a week. Any hour (almost) can be arranged, but between 2-4 PM on a weekday is best.

This week's Inside World was brought to you by:

Lloyd: Emily Wen

Dabney: David A. Edwards

Blacker: Henry, Bill, Luke and Chad

## Emily's inside world

### Lloyd

The Lloyd inside world is back!!! I feel like writing a fairy tale.

#### Chapter 1

Once upon a time, there was a huge castle situated in a big black forest. A beautiful young princess called SnowYvonneWhite lived with her wicked stepmother QueenTurWen. The other members of the family included SYW's stepbrothers CoalPraterBlack, HoneyRoganYellow, her stepsisters RoseStephRed, and PearFionaGreen. QueenTurWen had an evil mirror and a devilish knife. One day, she asked her mirror, "Who knows how to do the Chem41 homework?" Alas, the image of SYW appeared in the mirror. The queen was so anguished that she picked up her knife, and was going to kill SYW. But wait a minute, she might get the death penalty if she killed someone. So, she thought up this wonderful plan. She asked KnightAfricanAlbertLVioletPurple to bring SYW into the Black Forest, where LionBassem and TigerBruce lived. Off KAALVP and SYW went.

#### Chapter 2

SnowYvonneWhite was left in the freezing Black Forest with no one around. Suddenly she saw a cottage nearby, and went into it. Inside, she saw seven small chairs, seven small beds, and seven small refrigerators. She opened the refrigerators, and ate everything in it. Then she fell asleep on the floor.

Tick, tick, tick, thirty-one hours past. The occupants of the cottage came back. They were seven gigantic dwarfs: DocFuller, Sneezypeterson, SleepyClass, DopeyBody, GrumpyDensmore, HappyRandy, and BashfulCarson. They stepped into the small cottage singing and dancing. Suddenly, they stopped!!!!

GrumpyD: Look at this!

BashfulC: Let's wake her up.

Others: Yeah.

They carried her up, and ponded her in the Black pond outside. And SYW woke up. What a long sleep she had! And how amazed she was when she saw these seven dwarfs. Then she started giggling.

Quickly she made friends with the seven dwarfs and settled down in the cottage.

#### Chapter 3

In the meantime, QueenTurWen asked her mirror again, "Who knows how to do the Chem41 HW?" Guess what-the image of SnowYvonneWhite again. "She hasn't died yet!!!!!" So the wicked queen brought a poison Phyl clip lead and went to visit the cottage. SYW was alone in the cottage, and the queen strangled her and fled.

Night came, and the seven dwarfs came back.

Sneezyp: Sneeze...Where is Snow?

DopeyB: (juggling) Let's go and find her.

SleepyC: Let's eat first.

(Who won the argument, I don't know,) but eventually, they went to search for SYW, and found her in the backyard, as quiet as a stone. They were very sad, and cried for a few days; then they went to buy a plastic coffin from the toolmerchantAlanG.

#### Chapter 4

The day of the funeral came. The sky was dark and cloudy. Clip Clop, Clip Clop, a greyish white horse arrived from nowhere. PrinceShyAhnTuanGrey came. Besides him were two officers, the blueCommissioner, and the orangeex-SecretaryPLin. When PrinceSATG saw the quiet body in the coffin, he ran over and knocked the coffin cover down.

Next.... the clip lead hanging around SYW's neck came off, and SYW opened her eyes, and was saved.

A big wedding ceremony followed, and everyone from the City of Lloyd went.

THE END

-(Garrett and Curt, top this.)

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The new, improved Inside World policy: We will not edit anything, except to annoy David A. Edwards.

## Dabney

Well, let's see if I can write one that will get past the editors and their "we consider the Inside World to be sacred" policy--or whatever their policy is this week. A word to the wise: the editors' promises aren't worth the paper they're printed on--and don't believe it when they tell you something, either.

I think that I have come up with a new Dabney House motto, since some people don't like our current motto: "Dabney House--The House of Cat Shit and its affiliated houses: 317--The House of Dog Shit and 360--The House of 'Fuck You'". But of course, you should be able to discern what it should be by the following vignettes:

The Inside World controversy came to a head this week, with everyone who likes Miriam saying I was an asshole for writing such things and everyone who hates Miriam saying the editors were assholes for censoring it. What really got to me was the fact that most people divided along those lines, and very few people saw through to the crux of the issue: the fact that each student at Caltech is quite capable of deciding what he/she wishes to read, and doesn't need that decision made for him/her by someone else. Thus, we can't read the paper without arguing about it.

Congratulations to Dean for winning the Frosh Jai-Alai Tournament (surprise, surprise). It seems that since Dean "had a vested interest" in the tournament, Jon H. stepped in and ran the tournament. (I guess that means that for this Sunday's social event, the Dabney Jai-Alai Open, Tien will step in and run the tournament.) Some people complain that Jon showed extreme bias in matching up people and as the tournament went along, changing rules only for his friends, rather than for everybody who needed the rules changed. Brian L., in his own inimitable way, was quite helpful in pointing out to Jon that he had made a mistake in the ordering of the pairs. So, we can't have a social event without arguing about it.

Monday was the AIDS Forum. A hearty thanks go to all who participated and attended. It was quite informative, and Robert was very good in his role of Devil's Advocate. Jon H. wasn't there (perhaps he "had a vested interest" in it), but Dean was there, so I guess everything between them is now even. Louis didn't like my idea of providing sterile needles in the laundry room. Perhaps it's an idea whose time has not yet come. Though the turnout was absolutely tremendous, some people were upset that certain members of the ExComm weren't there. And so we can't have a symposium without arguing about it.

Thursday was the Wine and Cheese Party. Ignoring the fact that the invitations weren't sent out until Wednesday, thanks to Roberto "Procrastination" Hanna, there was a big controversy about the way the invitations looked. Of course, the gratuitous phrase from which none of the new officers can escape, "That's not the way it was done in the past" was used often. So we can't have guests over without arguing about it.

Saturday is the IMAX Theatre trip. The maps that I drew up for the trip are rather abstract but informative. So what if they have only one line on them? But everyone else is up in arms, so I guess we can't take a trip without arguing about it.

BDR has been cancelled because Moles are flakes. So now we have extra money. The seniors want it for the senior party, I want it for the Capra Weekend, and everybody else wants it for the Drop Day Party. So, I guess we can't have money without arguing about it. (I guess that's not so uncommon.)

This week we completed the initial screening of RA candidates. (As if what we think is going to have anything to do with who is chosen.) Thank you for applying to each of the candidates. I think it goes without saying what the decision meeting is going to be like.

So, how about "Dabney House: The House of Arguments"? Harold Zatz says: "Ask Uncle Dave" was a hit!" Unfortunately, due to the vast volume of mail I received, I was unable to answer all the letters. So, here's your big chance to match wits with the expert in the Ask Uncle Dave Contest! Here are five questions that I wasn't able to answer last week. Answer the questions yourself, then submit your answers to me. The winner will get something great, though I don't know what.

1) I was walking by room 24 one Wednesday afternoon when a crazed man jumped out, held me, and asked me, "Do you know a 5-letter word ending in 'yrkt'?" I am afraid this man is suffering from crossword-creatoriasis. What should I do?

2) Do I have to be elected president of something before women start wearing my clothing?

3) Everyone calls me anal-retentive. How do I get diagnosed and how do I get treatment?

4) I really hate being talked about in the Inside World. What can I do about it?

5) I am thinking of entering into a "commuter marriage" with someone, but we'll be going to graduate schools thousands of miles apart. Do you think this is a good idea?

Winners (and maybe answers) will be printed next week.

-The Darber of Seville

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## Tolman Medal

from page 1

In the last decade, Dr. Baldeschwieler has pioneered a new type of therapy for diagnosing and treating cancer, based on the use of microscopic cell-like structures called vesicles. The techniques he has developed enable vesicles to function as a targetable delivery system: the vesicles are chemically modified to carry drugs or radioisotopic tracers and then injected into the bloodstream, where they ferry their cargo to specific sites in the body. Since 1981, Baldeschwieler has been chairman of the board of directors of Vestar, a commercial enterprise in San Dimas, California, that he established to develop these methods.

John Baldeschwieler has been a member of the Caltech faculty since 1973, and served as chairman of Caltech's Division of Chemistry and Chemical Engineering from 1973 to 1978. He received his B.Chem.E. from Cornell, and Ph.D. from the University of California, Berkeley, and taught on the faculties of Harvard and Stanford before coming to Caltech. From 1971 to 1973, he was Deputy Director of the Office of Science and Technology, in Washington, D.C. He served on the Arms Control and Disarmament Agency Advisory Committee from 1974 to 1976, and was vice chairman of the President's Science Advisory Committee from 1970 to 1972, vice chairman of the Defense Science Board from 1974 to 1976, and a member of the President's Advisory Group on Science and Technology in 1975-76. His public service has included extensive efforts at developing scientific contacts with both the Soviet Union and China. Baldeschwieler was elected to

the National Academy of Science in 1970, making him, at 37, one of the youngest members ever elected. His other honors include a Sloan Foundation Fellowship and the American Chemical Society Award in Pure Chemistry. He was elected to the National Academy of Arts and Sciences in 1972 and to the American Philosophical Society in 1979.

Other Caltech faculty members who have received the Tolman Medal are James Bonner, Professor of Biology, Emeritus (1972); John D. Roberts, Institute Professor of Chemistry, Emeritus (1974); and Harry Gray, Arnold O. Beckman Professor of Chemistry (1979). Arnold Beckman, chairman emeritus of the Caltech Board of Trustees, was honored in 1985.

## PROPOSED AMENDMENT TO ASCIT BYLAWS

Amend ARTICLE XIII, Section 1, to read:

Section 1. DUES. The corporation dues shall be payable on registration day of each term at the rate given in the schedule below:

Fall	Winter	Spring	Total
\$25.00	\$25.00	\$25.00	\$75.00

Dues for each term shall be nonrefundable after Add Day of said term.

The vote for this bylaw change will be next Friday, May 5.

**Blacker (Rome)**  
The Roman Empire

Friends, Romans, Countrymen lend me your ears. That which was foretold by the ancient prophets of Judea has come to pass. The earth trembles and the sky is dark and foreboding, for the phoenix has risen from its pyre and the beast once again walks the earth. Fear and trembling have enslaved the masses, and the giants of the earth have been blinded by the light...

ROME! ROME! ROME!

The hearts of the people are stricken with terror as these world-shattering words echo in their souls. All hail New Rome, for Rome is reborn and the blood of Mars is upon us all. Hail Rome the Mighty! Hail Rome the Eternal! Hail Rome the Indomitable!

All hail Rome, for the ending and beginning is near, and none but the brave will be spared...

Friends, Romans, Countrymen lend me your beers. Ro-men's Movie Night was a truly righteous and noble undertaking. All true Romans reveled in the festivities, and fun was had by all. With the exception of some barbarian swine, the event was a most excellent All-Roman tribute to "Beef and Steel". All true Romans acknowledge the innate inferiority of the barbarian trash that infests the outskirts of Rome. Tolerance is weakness, and Rome will no longer tolerate the repeated incursions of this filthy rabble. The indigenous barbarian population of Hades has formed a loose and lame tribal confederation known as Hell. In order to avoid the wrath of Rome this barbarous wasteland should learn to accept its intrinsic lameness and inferiority. This mass of outcasts will preserve itself only through mutual and collective lameness, not by leeching off the mighty Roman Empire. This pack of parasitic pariahs must respect the borders of Rome, lest they evoke the Fury that is Rome. In addition to repulsing the intrusions of native barbarians, Rome recently repelled a foreign band of brain and vitamin deficient dwebes who sought to whack someone else for a change. This violation of Roman living space is unacceptable and intolerable, and will always be dealt with by the cold iron fist of Rome. Until next time...

ALL HAIL ROME!

The Top Ten Reasons Why Hell Sucks

10. Walker
9. Jerry
8. Kevin
7. Deron & Todd
6. Craig
5. Bonnie
4. Noam
3. Lieven
2. Jerry
1. Bonnie

-Nautius Maximus, Silius Wilius, and Bigus Dickus

Odyssey



Hey! There's meat inside these things.

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### Design Engineers

Entry-level position for logic and circuit design of custom/LSI functions; includes system architecture, logic/circuit design, application notes, place and route evaluation (Megacell development). BSEE required, MSEE preferred.

### Software Engineer

Entry-level position for development of design automation modules and utilities programs for use in design system. Platforms include Sun, PC, VAX, Daisy, and Mentor. Familiarity with design automation software and methodologies preferred. BSEE required, MSEE preferred.

### Microcode Engineers

Develop control microcode for our 32-bit VLSI processor. Should have at least 4 years experience in microprogramming of pipelined processors or related products.

### CPU Design Engineers

Join in the design of our state-of-the-art, 32-bit microprocessor. Should have at least 4 years experience in high-performance processor logic or related products.

### Cache Subsystem Engineers

Take charge of designing a highly sophisticated cache subsystem to match the performance of our 32-bit VLSI processor. Should have at least 4 years experience in designing high-performance memory systems or related products.

### CMOS Layout Designer

Take charge of laying out complex VLSI circuitry in our advanced sub-micron CMOS technology. Should have at least 4 years experience in MOS/CMOS layout.

### Software Engineers

Proficiency in C language of VAX, Sun, and PC environments is required. Also required is 3-8 years experience working with CAE/CAD software, software architecture, and coding.

### CMOS Circuit Designers

Develop highly-advanced CMOS circuitry for our VLSI products. Should have at least 4 years experience in MOS/CMOS circuit design of memory or logic products.

### Floating-Point Subsystem Engineers

Join our floating-point design team which will break the performance barrier in floating-point arithmetic. Should have at least 4 years experience in logic or circuit design of floating-point math co-processors or related products. Familiarity with the IEEE floating-point standard preferred.

### Hardware Design Engineers

If you are a hardware engineer with 2 or more years experience in logic design or simulation, come and achieve what you are capable of in the design of advanced processor products.

We offer competitive salaries and benefits. For immediate consideration, please send your resume in confidence to:

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Attention: Human Resources  
2460 North First Street  
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All engineering positions require a BSEE or BSCS. S-MOS is an equal opportunity employer. You must be currently qualified for employment in the United States.

## what goes on

## scholarships

Submit announcements for *What Goes On The Back Page* 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. 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.

## International Day Meeting

There will be an organizational meeting for this year's International Day on May 1, 8pm, Room 15 SAC. All clubs and individuals interested in representing their countries/cultures should attend. For more information, call Vivek at 578-9924.

## Bridge Club Tournament

Team of Four Championship on Saturday, May 6th at 1:00 PM. In the Winnett Student Center. Prizes to the top two teams! The atmosphere is relaxed, so beginners are welcome (and might win!) Bring friends or come alone - we'll find you teammates and a partner. Call Jeff at 397-7555 or 791-4693 for more information. ACBL Sanctioned. Open to the Caltech/JPL Community or any students representing a college or university.

## May Day Women's Picnic

Meet other women at Caltech at an informal picnic in Dabney Garden on Monday, May 1 at noon. Bring a bag lunch and blanket. This is the first of a series of monthly women's events to encourage socializing among Caltech's women's community.

## Turkish Classical Music

A special concert of Turkish classical music will be presented in Dabney Hall on Tuesday, May 2 at 8 pm. The concert is free to the Caltech community, and will feature both a distinguished Turkish quartet and a free dessert. A limited number of seats are available, so call The Y today at 356-6163 to reserve a seat.

## SAC Has Big T's

If you are entitled to receive a 1988 Big T and are having a hard time finding one, come to the SAC! Nancy, SAC Coordinator, has Big T's in Rm. 64. Simply sign your name on the Big T list when you take one. Note: those not entitled to receive one may also take one and be billed \$24 by the Big T.

## CLASSIFIED ADS

## FOR LOVE--

**PUPPY NEEDS A HOME.** Found on campus. female, shepherd/boxer mix, approximately 7 months old, has shots, very friendly. Call x4666 ASAP.

## FOR RENT--

**BACK HOUSE STUDIO.** 3-in-1 kitchen unit, bath, \$350 including utilities, 5 blocks from Caltech, (818) 715-6977 (a.m.), (805) 496-0755 (p.m.).

**FANTASTIC SUBLET,** Monterey Hills, 10 minutes from campus. 1 bedroom, private bath, fireplace, washer/dryer, sauna, weight room, pool, Jacuzzi, parking. Available 5/15-8/31. \$475-550 single, \$600 double. (213) 342-9678.

## FOR SALE--

**4-POST DRAFTING TABLE** 37x60. White base, both tool & plan drawers, Borco covering, six months old. Excellent condition, new \$350; \$190 obo.

**FREE CATALOG.** Softwear® Shirts, Nightingale Marketing Services, 12713 Parkwood Drive, Burnsville MN 55337.

## SERVICES--

**INSURANCE WAR!** We'll beat anyone's prices or don't want your business. Sports cars, multiple tickets, student discounts. Request "Caltech Plan." (818) 992-6966 or (213) 873-3303.

**WORD PROCESSING,** speller, footnotes, term papers, dissertations, thesis, résumés, letters. Top quality, experienced, fast and dependable. Call Bonnie (818) 282-3611.

**RATES.** .....\$3.00 for first 25 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.

## Western Americana Show

The SAC has discount tickets for the Great Western Fair's International Wild West Americana Show, May 5, 6, 7. The Fall show date is scheduled for November 3, 4, 5. The show features wild west themes: rough riding cowboys, civil war association, knife artisans and more. For discount tickets and more information come to SAC 64 or 38.

## Benefit Book Fair

The Annual Friends of the Caltech Libraries (FOCAL) Book Fair to benefit all Caltech libraries is scheduled from 8:30 am to 2:30 pm today, April 28 in Dabney Hall Lounge. The fair is open to the public and will offer wide selection of books, with topics ranging from popular fiction to science and history.

Most publications will be available for purchase at the following prices: hardbacks-\$1; paperbacks-50¢; magazines-10¢. Some exceptional books will be offered for sale at higher prices.

## Children's Center Raffle

The Children's Center at Caltech will hold its 9th annual spring fundraiser raffle on May 5 (Friday) at 5:00 pm at the Center (293 S. Chester). Tax deductible raffle tickets are \$2.50 and can be purchased on the Olive Walk on Fridays, April 28 and May 5, from 11:30 am to 1:30 pm. Prizes include airline flights and gift certificates for dining, theater and entertainment.

## Sports Day

All students, faculty and staff are invited to participate in Sports Day, which will be held on Sunday, May 7. Informal sporting events such as soccer, basketball, ultimate frisbee and much, much more will be scheduled to begin at noon and continue until 4:00 pm. The central event of the day will be a buffet luncheon in front of the gym. Please feel free to come for this social event even if you don't participate in the sports.

## Want To Play Games?

The Caltech Gamers meet in Clubroom 1 of Winnett Student Center on Friday nights at 7:30 pm, and on most Saturdays and Sundays at 7:00 pm. Friday night gaming is mostly Warlock, a fantasy role playing game designed years ago by Techers. Saturday and Sunday games include Champions, Cosmic Encounters, Arkham Horror, British Rails, Empire Builders, Power Play, Nuclear Escalation, Wizard War, Illuminati, Naval War and many others.

## Women Student Leaders

The Fifth National Conference for College Women Student Leaders will be held June 1-3, 1989 at the George Washington University in Washington, D.C. Over 350 women student leaders from around the country will meet to explore their leadership styles, develop their leadership skills, and discuss issues related to women, both on their campuses and beyond. For more information and how to participate, see poster on bulletin board outside Nancy Matthews' office in the SAC (Rm. 64).

## Yet Another Totem Poll for Art

Attention writers, poets, and artists! The second *Totem* in as many years will appear this spring and will contain a diverse, if not complete collection of Techer-expressed wisdom and imagination. Address submissions to 116-58. For information contact Sam Dinkin (1-59 or x3828), or Erik Russell (Annex #5, 1-59, x6188). Copies of previous issues of the *Totem* are available.

## Rag Time on Green

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## Graduate Student Housing

Graduate Student Housing applications for the 1989-90 contract period are now available from the Housing Office. Residents of the Catalina Complex and the On-Campus Graduate Houses will receive their applications in the mail. Other interested Graduate Students should stop by the Housing Office before May 8 to pick up an application form, or call x6178 to request that one be sent to you. Deadline to return housing applications to the Housing Office to be included in the Graduate Student housing lottery is Monday, May 8, 1989.

## Red Cross Disaster Training

Red Cross Disaster Services volunteers are trained and ready to respond to assist the victims of any man-made or natural disaster every day of the year. Emergency food, shelter, medical attention, and other assistance is provided to disaster victims in order that they regain self-sufficiency as quickly as possible.

Citizens interested in helping their friends and neighbors may volunteer for American Red Cross and sign up for free Disaster Services training courses and workshops on various facets of disaster work.

Call the Pasadena Chapter at (818) 799-0841 for information.

## Kung Fu Classes

The Chinese Martial Art (Kung Fu) classes are now on Tuesday and Thursday night, 7-9 pm in Winnett Lounge. Our goal is to learn self-defense, to build self-confidence, to develop power & flexibility, and to improve mind-body coordination. The class will be taught by Master Lipin Aug and his pupils. Master Aug studied in Shaolin Temple in southern China, and has been training for forty-five years and teaching for twenty-five years. Classes are in a variety of styles at beginning and advanced levels. New students welcome. For information, call Chong Chen, x6859, or stop by the class.

## Asian Pacific Festival

The cities of Los Angeles and West Hollywood are joining forces with the Asian Pacific American Legal Center to present the 1st Annual Asian Pacific Festival & Culinary Carnival, May 20-21. The festival will feature Arts, Entertainments, an cuisine from various Asian-Pacific countries. If you're interested in having a booth, volunteering, or getting involved in cultural activities/entertainment come to room 64 or 38 in the SAC for more information and persons to contact.

## Summer Housing Sign-Ups

Sign-up sheets for on-campus summer housing will be posted on the Master's Office door beginning May 17, 5:00 pm. Students wishing to live off-campus, in unaffiliated housing, must sign-up at the Master's Office beginning May 23rd. Houses will be notified when summer contracts are available.

## Polish Workshop

The Polish Language Workshop offers the opportunity to learn or review Polish in a friendly, relaxed atmosphere. It meets Thursdays from 7:30-9:30 pm in 210 Thomas September through June.

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## Caltech Merit Awards

Each year the Scholarships and Financial Aid Committee awards a number of Merit Awards to the most academically talented of the Institute's Freshmen, Sophomores and Juniors. Merit Awards are based on outstanding scholastic achievement as demonstrated by exceptional performance in formal classes and/or in independent research, and not on financial need. Last year the Committee recommended 41 Merit Awards at \$9,000 or \$11,600 each. This year Awards will range from \$9,700 to \$12,300 each.

Applications are available in the Financial Aid Office at 515 S. Wilson. The deadline for submitting completed applications to the Financial Aid Office is May 12, 1989.

## Ebell Scholarships

The Ebell of Los Angeles Scholarship awards up to \$2,000 paid in monthly checks, September through June. A few general requirements are that the applicant attend an approved college or university in Los Angeles County, the applicant's home residence must be in Los Angeles County, and the applicant maintain a 3.25 GPA. For more information on requirements contact the Financial Aid Office. Application and recommendations are due in the Financial Aid Office, May 19, 1989.

## Water Fellowships

The American Water Foundation is seeking applicants for fellowships. Undergraduate and graduate students enrolled in a degree program such as civil or agricultural engineering, agriculture, geology, law, economics, or political science are eligible to apply. The deadline is May 31. For applications, contact the Financial Aid Office.

## Need Financial Aid?

All undergraduates applying for student financial aid are reminded that the priority deadline for submitting documents in support of 1989-90 aid applications is May 1, 1989. Applications will be reviewed as completed. Please contact the Financial Aid Office with any questions.

## Don Shepard Essay Contest

The Don Shepard Essay Award contest is open to all freshmen, sophomores and juniors. Three \$300 prizes will be awarded.

To qualify for one of the prizes you must submit an essay (around 500 words) typed, or neatly and legibly written, describing a program for your social and cultural enrichment, whether it be buying books or records, taking lessons, or traveling or sight-seeing.

The contest will run from April 1 to May 15, 1989 and you may bring your essay to the Master's Office during that time. Winners will be announced the week of May 15th.

## Play With Money

The Caltech Student Investment Fund meets every Wednesday in Millikan Board Room at 5 pm. We have over \$140,000 we use to buy and sell stocks and bonds. Profits buy pizza and soda for every meeting, and pay for dinner at year's end.

## Scholarships On Parade

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

*The National Roofing Foundation* is offering a \$4000 scholarship for full-time students enrolled in architecture, engineering, or other curriculum related to the roofing industry. Applications and information are available by contacting Aimee Anderson, Scholarship Coordinator, National Roofing Foundation, One O'Hare Centre, 6250 River Road, Rosemont, Illinois 60018.

*The American Petroleum Institute* will grant scholarships to students with permanent residency in Kern County. The awards are to be used to further studies related to the petroleum industry. For more information, contact the Financial Aid Office. The deadline for applications is May 8.

*The National Italian American Foundation* is offering various scholarship opportunities to assist Italian American undergraduate or graduate students. Deadlines vary through May.

Applications for the *1989 Japanese Government (Monbusho) Scholarship* for third year American students (U.S. citizens) specializing in Japanese studies are currently available at the Consulate General of Japan. For more information, contact the Financial Aid Office. The deadline for applications is May 5.

*The Automobile Hall of Fame* is committed to contributing to the welfare of the industry by providing assistance to graduating students interested in a career in the automotive industry. Two programs, the Outstanding Scholars Program and the Hall of Fame Resume Bank, are designed to attract promising students. The deadline is May 31.

## Rotary Foundation Scholarships

The purpose of Rotary Foundation Scholarships is to further international understanding and friendly relations among peoples of different countries. Both men and women may apply for one of the five types of Foundation Scholarships to complete one academic year of study or training in another country where Rotary clubs are located. If interested, stop by the Career Development Center, 08 Parsons-Gates, for more information on terms of the scholarship and application procedures.

## Software Scholarships

Green Hills Software, Inc. is funding seven one-year \$5,000 Computer Science Scholarships. These scholarships are to be awarded to juniors and seniors with an interest or experience in computer science. To be considered, applicants must have completed a 1989-90 financial aid application and provided all necessary documents. For more information and/or a separate Green Hills Scholarship application please contact the Financial Aid Office at 515 S. Wilson. The deadline for submitting the application is May 8, 1989.

## Social Security Booklet

Social Security? Many people only know half the story. Get the whole story from the free booklet, "Social Security, How It Works For You." Call toll-free 1-800-937-2000 to request the booklet.



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