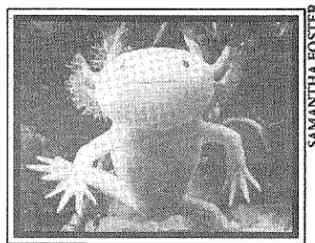


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The California Tech



SAMANTHA FOSTER

Volume XCVI, Number 19

Pasadena, California

Friday, March 3, 1995

National Student Organizations Agree to Joint Efforts to Fight Cuts in Student Aid

submitted by Kevin Boyer

Washington, DC/Chicago, IL...The nation's national student organizations have joined forces to fight Congressional proposals to cut student aid. Representatives of key organizations met in Washington, DC, on Friday, February 17, in one of the only joint meetings of major national student organizations in the history of the student activist movement.

Represented at the meeting were the National Association of Graduate-Professional Students (NAGPS) based in Chicago, and the United States Student Association (USSA), U.S. Public Interest Research Group (US PIRG), the American Medical Student Association (AMSA) and the American Student Association of Community Colleges (ASACC), all based in the Washington, DC, area. The five organizations represent millions of undergraduate, graduate and professional students at more than 1,000 campuses throughout the United States. Other national student organizations have been invited to participate.

The student groups established the week of March 13 to March 20 for a week of cooperative action designed to make members of Congress aware of the need to continue federal support for student aid. In particular, the organizations hope that

students will impress their members of Congress on the need to maintain the federal in-school student loan interest exemption.

"The interest exemption is the backbone of the student loan program," the group said in a joint statement. "The interest exemption is essential if our nation is to have an educated citizenry and a well-trained workforce. The interest exemption makes education affordable in an environment of escalating costs." Presently, the federal government pays the interest on federally guaranteed student loans while students are in school. Estimates of the loss per student if the exemption were eliminated range from an average of \$4,000 for undergraduates to a high of up to \$35,000 for graduate & professional-degree-seeking students. The interest exemption has been identified as a source of funds to pay for tax cuts and budget cuts in the Republican Contract with America.

The Alliance to Save Student Aid, an organization of higher education associations including many of the national student groups, supports the cooperation of the students as part of the effort to make Congress aware of the need to continue to fund student aid. "Mobilizing students to support these programs is key to our efforts," said David Merkwowitz, spokesman for the Alliance and Director of Public Affairs

for the American Council on Education. He added, "Students communicating with their member of Congress is the most effective way to ensure that student aid is not dramatically cut in the next budget."

"While we recognize that tough decisions need to be made to cut our nation's budget, these cuts should not be made at the expense of our future," said Kevin Boyer, Executive Director of the National Association of Graduate-Professional Students. "Graduate students, in particular, represent our nation's future research & development, our future teachers, our future business leaders, our future artists & thinkers. To deny many the opportunity to pursue an education - a necessary result of significant cuts in student aid - is to deny our country the rich benefits to be gained by an educated and productive population."

Students interested in participating in the cooperative efforts should contact their member of Congress March 13 to March 20. To work more closely with the student groups, make the following contacts: NAGPS: 71551.3365@compuserve.com or (708) 256-1562
USSA: mcclintockl@aascu.nche.edu or (202) 347-8772
US PIRG: (202) 546-9707
AMSA: AMSAlad@aol.com or (703) 620-6600
ASACC: (301) 933-7268

Want to Get Involved in Campus Life and Get Paid?

ASCIT members may now apply for the office of *The California Tech Business Manager*. The manager receives a salary and is responsible for the advertising in *The California Tech*. If you're interested in the position, sign up by Winnett or by the glass displays by the mailboxes. Sign-ups will come down on Friday, March 10 at 5:00 P.M. Interviews by the BOD will be on Saturday, March 11 in the afternoon.

Glee Clubs Introduce Winter Concert Tonight

by Don Caldwell

Tonight at 8 P.M. in Dabney Lounge the Caltech Glee Clubs and Chamber Singers will present a Choral Concert featuring music by composer greats Henry Purcell, Igor Stravinsky and Benjamin Britten. Admission is free.

There will be a broad spectrum of musical styles, including epics from 17th century England and 20th century America. The Women's Glee Club will present Purcell's famous birthday ode *Come ye Sons of Art*, commissioned by Queen Mary in 1694. This wonderfully festive piece, accompanied by recorders, oboes and a harpsichord, includes lively duets and magnificent choruses.

In a complete change of style the combined Glee Clubs will sing the final movement of Stravinsky's 20th century master work the *Symphony of Psalms*. Written for the 50th anniversary of the Boston Symphony, the movement combines the tautness of

symphonic development with the lyricism of language. Inspired by such Biblical imagery as dancing before the Ark and Elijah's chariot climbing to heaven.

A Men's Glee Club section follows, featuring the most unusual piece of the evening: *The Ballad of Little Musgrave and Lady Barnard*, which was written in 1943 for British POW's in Germany during WW II. The text is a rather naughty English Ballad dating from Elizabethan era and abounding with marvelous effects created by tempos ranging from prestissimo to lamentoso.

The sixteen voice Chamber Singers will conclude the concert with the Song of the Mass, written by Stravinsky in the late forties. This is a highly challenging work with many unusual rhythmic qualities making use of dissonance. This is one of Stravinsky's most challenging vocal pieces. Both Caltech Glee clubs hope you can attend.

Sailing Club Returns

by John Ward

There is good news for nautical-minded Caltechers: the Caltech Sailing Club is back in action. Currently, the club possesses four boats (two-man dinghies called Flying Juniors) and has over forty members. Right now the club's main emphasis is on cruising. The club has sponsored about one cruise each month since last fall, ranging from afternoon outings on 27 foot sloops to overnight cruises to Catalina Island aboard a 65 foot MacGregor. Pos-

sible future activities include racing, beginner lessons, and dinghy sailing, depending on interest in the club.

There will be a club meeting next Wednesday (March 8) at 4:00 in Winnett Lounge. During the meeting, topics ranging from lessons for beginners to starting a racing team will be discussed. Caltech students, faculty, staff, employees, alumni, and families are invited to attend. For further information, read the html <http://cco.caltech.edu/~ward/sailclub.html>.

ASCIT Minutes 2/27/95

Disclaimer: if you are easily offended by somewhat humorous material, do not read these minutes. Thank you.

Present: Jon, James, David, Kanna, Tom, Ken, Greg, Rachel, Laura, Melissa, Mory, Seth, Grace, Jenny, and Darth.

☞ We wait for Kanna (who was fashionably late, but at the meeting when it started). The meeting doesn't start until 10:10.

☞ Immediate Business: We get little invitations to the official ASCIT BOD swearing-in ceremonies at the MOSH's house.

☞ Jenny asks for Fleming's multihouse money, citing their social record. Fleming gets \$200 (money already allocated by old BOD).

☞ Less Immediate Business: Ruddock asks for \$200 in addition to the \$200 for multihouse funds for OPI and not \$400 in addition to the \$200 or \$400 in addition to nothing, and certainly not \$100 or \$300.59 in addition to the multihouse funds. They're already spending \$2000 of their own money and want ASCIT to fund them on a percentage basis of how much they spend. Kanna says the old BOD overspent the social budget but we still have leftover funds from extra sources needed for contingencies. Ruddock mentions they might get funds from Lloyd. James asks if this is the same budget crunch as last year, and the budget turns out to be about the same as usual (around \$3,300, give or take \$200 or so). Laura (not Rachel) calls Rachel (not

Laura), but Kanna (not Rachel or Laura) dials the phone. Rachel confirms through Laura that Ruddock gets Lloyd's \$200 in multihouse funding for this term. The actual funding will be discussed in a closed meeting at the end of the session.

☞ It's 10:28. Gavin enters, and says that it's about time to open the application period for Tech business manager. We should post a bulletin and put something in the Tech. Signups will go up on Tuesday and come down on Friday, March 10, 1995, at 5:00 PM, Pacific Standard Time.

☞ Greg asks if we should have closed budget meetings, and James and Ken argue that we're representatives of the people and should be able to listen to them.

☞ Gavin says the old copier's not working, and Laura says she'll find out about the service contract.

☞ Dave gives the BOD lots of random junk mail, and it is promptly put in a pile to be thrown away. Also, Dave says that we need a new printer because the current printer is on loan and runs slowly.

☞ Kanna says some people need new ASCIT phone lines, and we need to get them the ASCIT numbers. James is DEFINITELY getting his new phone line put in on Tuesday.

☞ We discuss going to Capra Ranch some more (when, etc.).

☞ Ewald noticed mysterious charges from Physical Plant that he thinks has to do with van stuff.

Kanna tells Laura about it and she said she'll check in on it.

☞ Jon found some old ASCIT minutes somewhere and we should try to put them in the ASCIT office.

☞ James asks for Blacker interhouse money, and Greg asks for Page interhouse money. We give them their \$200 apiece for this term.

☞ Jon and everyone will go to the bank on Friday.

☞ Melissa and Laura have no exciting news, but Laura found an extra set of van keys.

☞ We need a representative for the multicultural task force, and Melissa says she's multicultural. We all agree, and thus she's the representative.

☞ Greg needs a date for the formal. He says May looks good, and James says that she does. Jon can't go if it's in late May. Greg asks if it

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What do you think of this paper? Would you like to see more features? More comics? More news? More announcements? Please send your opinion via e-mail to editors@tech, or by campus mail to Caltech 40-58 SAC. JPL members and Caltech staff too; we value your opinion! Don't forget to tell us if you do not want your comments printed.

Letter to the Editor

I cannot agree with Eric Dennis' criticism of Mitra Hartmann's article about Feynman. Eric apparently believes that Feynman was right in exercising "his own cleverness irrespective of what effects it may have on others."

Einstein said it best:

"Concern for man himself and his fate must always form the chief interest of all technical endeavors...in order that the creations of our mind shall be a blessing and not a curse to mankind. Never forget this in the midst of your diagrams and equations." — From his speech in 1931 at Caltech

Computer viruses are becoming extremely sophisticated in order to avoid detection by anti-virus programs. While it can be fun to speculate on how to escalate such an arms race, and really good programmers typically enjoy the challenge of trying to implement such ideas, those who release viruses cause a lot of damage and are, in my opinion, simply malicious.

I know how to forge email addresses, and I have lots of ideas for how to automate mail bombing, how to get people to unwittingly mail bomb themselves, how to write Usenet viruses, and how to bring the

entire Internet to a grinding halt. From a purely intellectual perspective, it would be interesting to try to implement some of these ideas to see if they would work, but, considering the consequences, I'm not irresponsible enough to actually try any of them.

To return to Feynman, I admit that bothering a waitress is not on the same scale as bringing down the Internet, but it does seem mean-spirited to bother the employees of a restaurant where one enjoys eating, and it doesn't require much ingenuity to invert a full glass of water when one has a flat serving tray and a flat table.

Sincerely,
John Lindal

P.S. S&M is actually quite good.

Please send submissions for letters to the editor to The California Tech, Caltech 40-58, Pasadena, CA 91125, or by electronic mail to editors@tech.caltech.edu. Deadline for submissions is Monday at 5pm on the week of publication.

The editors reserve the right to edit or refuse to print any letter for any reason.

Opinion

Dick Feynman Envy?

by Aimée Smith

Last week's letter by Dennis brings up so many issues, it is hard to know where to begin, so I will limit myself to the most troubling ones.

First of all, it is frightening to see that not only does a student seem to believe that creative expression by certain individuals is justified regardless of the consequences, he is willing to openly admit it. What exactly does Caltech do to insure that such attitudes do not go untempered as the institution "arms" the students with the tools to engineer and improve on such "creative expressions" as tanks, missile guidance systems, etc.? Obviously not enough since I know of current students, alumni and even current faculty willing to work on just such projects.

Feynman himself also seemed to miss out on such training. In the hours he spent teaching himself math and physics and all the years of education, he clearly missed out on the human decency lessons of life. That must be how he managed to work long and diligently on man's [not humanity's] greatest tool for destruction to date without once stopping to wonder about how horrible it was. And even after he witnessed the successful test, genius that he was believed to be, couldn't figure out why his colleague looked so down, while everyone else was celebrating. Only one among them seemed to realize that it wasn't the Fourth of July, and that the test wasn't success for success sake, but success toward ushering in a whole new era in violence technology. Mine is the generation that could never be sure that tomorrow would come...

Of course, the Atomic Bomb Project is only the most obvious example of how Feynman's lack of forethought and/or lack of consideration

for others has negatively affected individuals. As a woman at Caltech, it is hard not to wonder how his blatant misogyny, as preached through various texts (see *Surely You're Joking, Mr. Feynman*, by Feynman himself, particularly chapter entitled, "You just ask them?"), and excerpt from Nobel Prize acceptance speech, *A World Without Women*, by Noble) gave/gives license to men here to alienate at best and to harass or abuse at worst, women who seek and have sought to become members of the scientific community. He clearly had very little intelligence when it came to dealing with women. He is proud to have thought of women as "bitches" and called one a "whore" in order to get them to sleep with him. Any half-way aware human being would be repulsed by the idea of such a sexual encounter. But he, in his boyish enthusiasm, tells the tale as if it were an exciting scientific discovery. Here again he fails to consider the implications of his actions toward these women and toward his own sexuality. I would *not* be honored or happy to meet such a man.

A word of caution to Mr. Dennis or anyone else who slips into this same narrow way of thinking: it is important to remember that just because a person studies at the same place as you and perhaps shares some common interests does not mean she or he will necessarily have the same values as you do or a share common list of heroes. For myself own list of heroes, Feynman is nowhere to be found, instead you will find people like Dr. Vandana Shiva, an Indian woman physicist who does excellent work on studying the impact of various so-called development projects around the world, Anne Frank, Harriett Tubman, Gandhi, Dr. Marie Curie—a scientist who fought to have her work be used for *healing purposes only*. These people are a few of those

that I admire and look to for example. Mitra's list is most likely different—it will reflect *her* beliefs, values and experiences and not ours. Therefore, saying that she makes the observations that she does out of some form of envy borders on ridiculous. (Actually, it is well within the realm of the absurd.) This is not to say that Dennis' arguments are original. It is the same old trick of trying to silence legitimate issues raised by a person who challenges the status quo. In Victorian times, Freud (also absent from my hero list) tried this by coining the term "penis envy" and based his theory of female development on it, in spite of the fact that society bears out just the opposite sort of behavior. Karen Horney, a less well known psychoanalyst, had a competing theory she called "womb envy" which could possibly explain men's continual efforts to control women's bodies through legal, so-called medical, or even violent means throughout history in western society. But perhaps I am losing some of you...

Lastly, no matter how brilliant people on campus may believe Feynman to have been, we have no way knowing that Mitra or anyone else here *including* staff aren't just as, or perhaps even more, brilliant. In that case, hadn't we better treat everyone with respect and with an open ear (if the fact that we are all "fellow" human beings isn't enough for you), just in case we have something important to learn from them?

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Caltech 40-58 SAC, Pasadena, CA 91125
phone: (818) 395-6153
e-mail: editors@tech.caltech.edu
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COMICS EDITOR
Wei-Hwabert@

ASSIGNMENT EDITORS
Krishna Gidwani
Saurabh Saha

MANAGING EDITOR
Yingzhong Tian

COPY EDITOR
Shay Chinn

LAYOUT EDITORS
Steven Van Hooser
Wei-Hwa Huang
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EVENTS AND NOTICES
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Samantha Foster

WRITERS

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Zackary Berger
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Royden Jones
Michael Kantner
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FEATURES

Ross Brown
Jeff Goldsmith
J. Random Hercrosh III
Wei-Hwa Huang
Lauren
Sharon & Marc
Adam Villani

CONTRIBUTORS

David Relyea
Topher Hunter

ADVISOR

Hall Daily

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Letters to the Editor — 5 P.M. Monday

Events and Notices — 5 P.M. Tuesday

Unsolicited Articles — 5 P.M. Tuesday

Regular/Semi-Regular Columns —

5 P.M. Wednesday

Articles, News Submissions —

5 P.M. Wednesday

Art/Photo Submissions — 5 P.M. Thursday

Work for The Tech!

It's fun!

12:15, Fridays, Coffeehouse

SPACE FILLER

From a recent newspaper:

"The most powerful form of hacking into modern computer systems is a method known in hacking jargon as "cracking route." Several of our sources affirm that if they can crack route, they can get complete access to the system and basically do anything they want on the remote computer."

SOMETHING DIFFERENT AT CALTECH

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FRIDAY, MARCH 3, 1995 8 PM
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THEATREWORKS/USA
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SATURDAY, MARCH 4, 1995 / 2:00 PM
Beckman Auditorium
\$9.00 Adults — \$5.00 Children

Coleman Concert
ARDITTI QUARTET
SUNDAY, MARCH 5, 1995 / 3:30 PM
Beckman Auditorium
\$22.50 — 19.00 — 15.50 — 12.00

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Super-Sized Phunnies

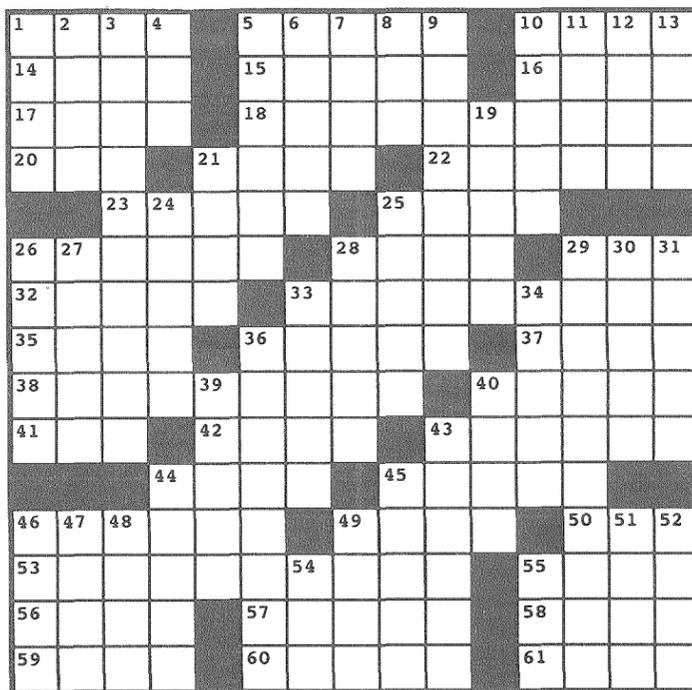
by Shumway, M.D.

- Question 1:
Where do you find baby soldiers?
- Question 2:
Where does a king keep his armies?
- Question 3:
Why did the cat join the Red Cross?
- Question 4:
What do you call a bunch of scared trees?
- Question 5:
If cats have 9 lives, is there anything with more lives?
- Question 6:
Why are restaurants dangerous?
- Question 7:
What do people hang up on the fourth of July?
- Question 8:
What is a comedian's favorite breakfast cereal?
- Question 9:
What is the correct way to file an axe?
- Question 10:
How do we know that owls are smarter than chickens?
- Question 11:
What is the difference between a ball and a prince?
- Question 12:
What do you get when you pick a four-leaf clover from a poison ivy patch?

1. In the infantry.
2. In his sleeves.
3. It wanted to be a first-aid kit.
4. A petrified forest.
5. Yes, a frog, because it croaks every night.
6. You might bump into a man carrying fish.
7. Decorations of Independence.
8. Cream of wit.
9. Under the letter 'A'.
10. Have you ever heard of a Kentucky Fried Owl?
11. One is thrown to the air; the other is held to the throne.
12. A rash of good luck!

Crossword - "Fat"

edited by Wei-Hwa Huang



Across

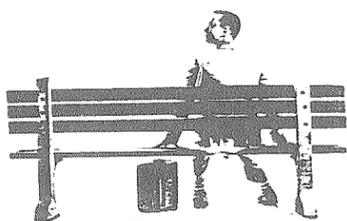
- 1. Young ewes
- 5. Ito, for one
- 10. Some wills?
- 14. Eye
- 15. From port to starboard
- 16. L. A. expertise
- 17. Round
- 18. Fat
- 20. Superlative suffix
- 21. Class Aves
- 22. Place near the 35-across
- 23. What 21-across does
- 25. Student house
- 26. Night waker
- 28. Mulgrew of Voyager
- 29. British bar

- 32. Pachelbel had one
- 33. Magnet
- 35. What Stratford is on
- 36. Pigs
- 37. Milo's pal
- 38. Funny
- 40. Verboten
- 41. Higher trains
- 42. Region
- 43. Mickey, e.g.
- 44. Drinks
- 45. ___ Goddess from Mars
- 46. Weighted
- 49. Right or left
- 50. Mead or Noyes
- 53. Fat
- 55. Rib

- 56. Flaccid
 - 57. Fructose, e.g.
 - 58. Slimy
 - 59. Gait
 - 60. Easter or circus, e.g.
 - 61. Songs
- Down**
- 1. Hamlet's query
 - 2. Is
 - 3. Fat
 - 4. Appoint
 - 5. Some negligees, e.g.
 - 6. Not retry or fail
 - 7. Person who got the last clue
 - 8. Cover
 - 9. Makes as if
 - 10. The Goodnight girl
 - 11. Jenny
 - 12. Crazy train?
 - 13. Submachine gun
 - 19. Broadway boxes
 - 21. Was
 - 24. Incorrect
 - 25. Diego man
 - 26. Fish music?
 - 27. Nautical orange?
 - 28. Piggyback marsupial
 - 29. Fat
 - 30. The north
 - 31. Stupefy
 - 33. Earring place
 - 34. Yes-man
 - 36. Nudity
 - 39. Being forced to go
 - 40. Shade
 - 43. They were rough
 - 44. Take in
 - 45. Necessary
 - 46. Light music
 - 47. Ruler of an emirate
 - 48. Magazines, e.g.
 - 49. Long story
 - 51. Can do
 - 52. Rulers of Tunis and other Turks
 - 54. McClanahan
 - 55. Earthy

Tonight's ASCIT MOVIE

Forrest Gump



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Free



Free

Caltech Glee Clubs
Caltech Chamber Singers

Purcell Come, Come Ye Sons of Art
Stravinsky Mass, Symphony of Psalms mov. III
Britten The Ballad of Little Musgrave and Lady Barnard

Friday, March 3, 1995, 8 pm
Dabney lounge, Caltech

Yes, it's time once again for another edition of "Ask S&M." We get so very many cards and letters every week, asking us for advice on such a wide variety of issues, that it's almost impossible to choose what to respond to and what to completely ignore. We use a complicated matrix-style evaluation method to aid us in our choices, encompassing attributes such as literacy, topicality and, of course, social class (we don't want any of those White Trash questions that are so common in some other advice columns). We took advantage of last week's disease-ridden hiatus to cull the best of said missives, and now share our responses with you, our devoted readership.

Dear S&M: I really liked the first episode of "Star Trek: Voyager." But the ones which followed were frighteningly reminiscent of most episodes of "The Moron Generation." What should I do?

S&M: We can sympathize with your dilemma. Right before "Star Trek: Generations" came out, we prayed to every god we knew (including some that had been recommended to us by an atheist) that the movie hadn't been written by the same people who worked on "Moron." Clearly our fervent supplications went unheeded. And it appears that an equally unfortunate fate has befallen "Voyager." Your only solace lies in the fact that at least it's better than "Star Trek: Deep Space Nine." Perhaps you can sate your need for quality science fiction television by watching "Babylon Five."

Dear S&M: My cat likes to eat tortilla chips and salsa. I'm worried that he might be affected by the recent passage of Proposition 187. What should I do?

S&M: It's a well-known fact that your cat does not have to be an illegal immigrant from Mexico to enjoy chips and salsa. Marc's cat Persy, in fact, has been known to down a chip or two on occasion, and he's about as blue-collar American as a cat can be! Nevertheless, the finer print of Proposition 187 requires us to inform the I.N.S. that you may be harboring a feline alien.

Dear S&M: I like pumelos, but my significant other prefers grapefruits. What should I do?

S&M: Sit down with your significant other and, in a non-threatening and non-confrontational manner, inform them that they are



completely insane. Anyone with even a small fraction of the normal number of human taste buds can clearly judge pumelos to be an astronomically superior fruit experience. Not that we're fanatics or anything. If your S.O. persists in asserting this incomprehensible preference, nod understandingly as you slowly back away towards the nearest exit. No telling what they might be capable of.

Dear S&M: I noticed that the Los Angeles Times has raised the daily price of a newspaper to fifty cents. What should I do?

S&M: We too have taken note of this alarming occurrence. It seems like only last year that the Times raised its price from 25 cents to 35 cents. Marc was so incensed that he called the paper and threatened to pull his weekly personal ad,

a major source of revenue for them (after all, how many personals are eight-stanza limericks?) They refused. So, if you're looking to buy a paper, but don't want to blow four bits, take a drive out to Glendale! The L.A. Times is still just a quarter out there. See, we don't only say bad things about our verminous neighbor to the west!

Dear S&M: I recently hacked to death my ex-wife and some guy she was with. What should I do?

S&M: Thanks for writing! So often we hear from drunk drivers or petty thieves that it's refreshing to get a note from a multiple murderer. First, make sure to deny everything. Your best defense is probably to foster a sense of mental instability. Pretend you're going to surrender. Then pretend to try to escape. Remember, media visibility is the key here. Were you sloppy? Leave a lot of clues? Try to preprejudice the jury.

Maybe you could write a book. And make sure, above all else, to have a lot of expensive, media-savvy lawyers. Except Alan Dershowitz. That would be a sure sign of guilt. Good luck!

Dear S&M: Apparently "mabominable" is some sort of horrible expletive in Swedish. What should I do?

S&M: Don't worry, be happy! Inhabited by a pale and humorless people, Sweden offers nothing to the world, except good watches and cool army knives. Any odd aspects of their trifling language can be ignored. What? Swiss what? Oh. Well, this is rather embarrassing. Okay, forget what we said about the watches and knives. Sweden has actually enriched the world, not only with their patented Swedish massage, but also with ... uh

... with IKEA. Not that their language is any more significant than Switzerland's.

Dear S&M: Twiglets are undoubtedly the foulest-tasting snack food on the face of the Earth. What should I do?

S&M: Sigh. Not a week goes by that we don't receive another anguished letter regarding the devil's own junk food, Twiglets. In fact, there's so very much to say that space limitations prevent us from addressing the subject this week. In the near future we will devote

Sit down with your significant other and, in a non-threatening and non-confrontational manner, inform them that they are completely insane.

an entire column to Twiglets, provided we don't toss our cookies just thinking about them.

Dear S&M: The Academy Award nominations this year seem to be more a case of "What Didn't Stink" rather than "What Was Good." What should I do?

S&M: It's sad but true. Not every year brings us a "Robocop" or a "Die Hard," or even a "Ace Ventura: Pet Detective." And think of the poor members of the Academy, who don't have the luxury of awarding the Oscar to "None of the Above." Yes, the only excitement this year will be in see-

ing if the award for Best Supporting Actress can once again be the most amusing selection of the night. Although we can hardly wait to bask in the musical comedy of "the host with the most," Billy Crystal. Somehow he makes it all worthwhile. At least that'll never change!

Dear S&M: Another Friday night and I ain't got nobody. What should I do?

S&M: Friday night, eh? Well, you could give in to peer pressure and attend some drug- and alcohol-saturated raucous party, waking up the next morning with some stranger, hopefully of your preferred gender. OR, you could treat yourself to the stylin' sounds of the Caltech Glee Club, who are giving a free concert tonight in Dabney Lounge. And if their melodious manners aren't enough to tempt you, they also have free refreshments for concert-goers after the performance. Remember, they don't call them the "Glee" club for nothing!

Dear S&M: No matter how hard I try, I still inevitably refer to him as "Prince." What should I do?

S&M: As luck would have it, both of us were members of the Committee to Determine a New Designation for the Artist Formerly Known as Prince. Unfortunately, none of our suggestions were adopted by the committee, but you are certainly welcome to use any of them. Our first choice was the (admittedly) lengthy "The Repulsive Runt who Appolonia Wouldn't Have Even Bothered to Spit On if He Hadn't Somehow Turned Her into a Star." Next was the catchy "That Purple-Clad Loony-Tune." And finally, the brief yet oddly appealing "Shmince."

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YESS '95

Teaching position in the Young Engineering and Science Scholars (YESS) Program is available for a mathematics class this summer. YESS, a residential program that introduces high school students to the joys of intensive scientific investigation, runs from July 10th to August 11th. The job entails teaching math, with emphases on mathematical reasoning and critical thinking, to 40 students for 3 hours a week at a level accessible to entering high school seniors.

Applications, which will require an outline of proposed curriculum, are available in the Caltech Y, and are due on Friday, March 24th. Undergraduates, graduates, and all others are encouraged to apply.
For more information, contact Athena at x3180.

Summer Bridge Positions 1995

Announcement of openings for the following positions

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and
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Program Dates

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Frank Vargas or Michelle Medley
Office for Minority Student Recruitment and Retention
287 South Hill, 2nd Floor (La Casa), 395-6208
call or visit for more information and an application

Application Deadline: March 20, 1995

Space 101 Makes a Big "Impact"

by Ross Brown

This last Saturday, the Caltech Space Society held an educational conference for Los Angeles area high-schoolers. About 35 students from diverse backgrounds visited Caltech for a day of workshops on space. This year the theme was "Impact!"—discussions about the possibility of an extraterrestrial object hitting the Earth.

The students were accompanied by their teachers and, in some cases, parents as they learned about the different aspects of this threat. Many of the questionnaires the students filled out afterwards were very positive, and many couldn't wait until next year's Space 101 conference.

Following a keynote address on Shoemaker-Levy 9 by Dr. Goodstein, the students were divided into two groups. Both of these groups rotated through the four workshops that day: Science, Technology, Policy and World Wide Web exploration. Each workshop consisted of a lecture followed by an activity to demonstrate the concepts learned.

Devon McClain gave the science lecture. The science curriculum was developed at MIT for this conference, and was ready to be used by students here at Tech. After the Science lecture, the attendees got to make their own comet with dry ice, dirt, water and assorted other household items.

After they built their comets, they got to watch them fall off of Millikan Library into a wading pool filled with dirt and topped off with flour. This demonstrated cratering quite well! Each comet reached a velocity of 70 miles an

hour before digging out a crater in the pool.

The Technology section was led by Ross Brown, who gave a short talk on the technology we possess to knock out an intruder. He also talked about the orbital dynamics involved. To demonstrate the Keplerian motion of the planets and asteroids, Ross had them roll marbles and small balls around on a trampoline. The trampoline's center was deflected downward by a weight, producing "curved space."

Cherish Bauer led the Policy workshop. The attendees heard about rational choice, game theory and other concepts used to study political dynamics. The focus was on situations where a comet or asteroid was going to hit the Earth, thereby creating a tense political climate. The students then engaged in a debate on the issues raised by the discussion.

An unusual highlight of Space 101 was an internet session. Steve Van Hooser led an hour-long journey through the space links of the World Wide Web. Additionally, Steve and Scott Driggs collaborated to create an up-to-date summary of the conference on the CSS homepage. Students were able to see pictures of themselves building comets, listening to a lecture, or browsing on the internet within twenty minutes of its occurrence! Check it out at <http://seds.lpl.arizona.edu/> (select the CSS homepage).

Stay tuned for next year, when the Caltech Space Society puts on Space 101 '96! Thanks to all of the people here at Tech who helped make this exciting day possible, we appreciate your help!

Bike Theft

Green, Schwinn, 26" mountain bike and water bottle holder, valued at \$255, was taken from the bike rack on the south side of the Catalina Complex, Building 1028. Victim secured the front tire of the bike to the rack with a Kryptonite lock on February 12. Upon returning on February 20, discovered the front tire attached to the bike rack, but the remainder of the bike missing.

FEBRUARY 23

Automobile Theft

Blue Mazda RX-7 valued at \$3000 was taken from the West Wilson Lot. Victim parked vehicle on February 21, at noon. Upon returning on February 23, at noon, discovered the vehicle missing. Pasadena Police department notified.

Armed Robbery

On February 23, an armed robbery occurred in the parking area of 255 S. Wilson Ave. Suspect approached victim from the right rear side of the victim's vehicle. Suspect told the victim not to scream and showed the victim a handgun tucked inside his pants. Suspect then demanded victim purse, book bag,



and jewelry. Victim complied. Suspect departed in an unknown direction. Victim was not injured.

Suspicious Person

Male, black, 20, 6"0", 250, black hair, dark complexion. Subject was reported leaving 270 Holliston at 3:55 PM. Security responded, subject was no longer in the area.

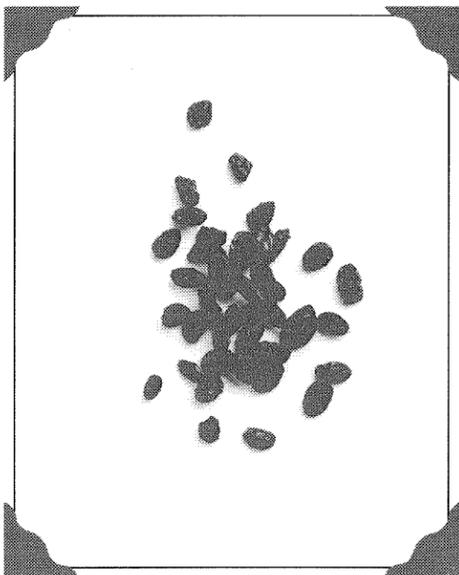
Fire Alarm Activation

On February 25, at approximately 3:00 am, six fire alarm pull stations were activated. Four activated in the Student Activity Center, one activated in Blacker House and one activated in Ricketts House. Security responded to the alarm activations, Black ash marks were discovered on the front door of room 42 in Blacker House, no other apparent cause for activation.

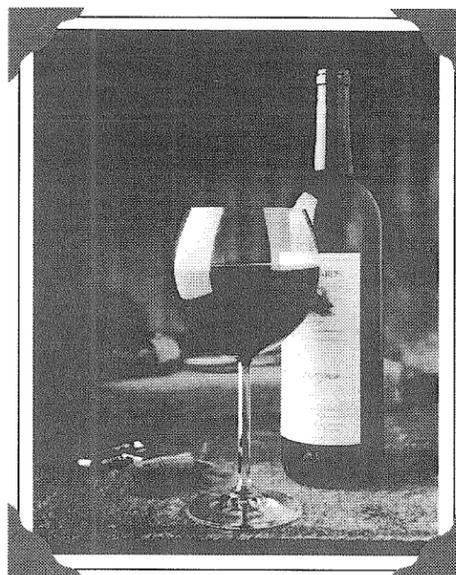
Fire Alarm Activation

On February 26 at approximately 1:40 am, a fire alarm pull station was activated in Ricketts House. Security responded, no apparent cause for activation.

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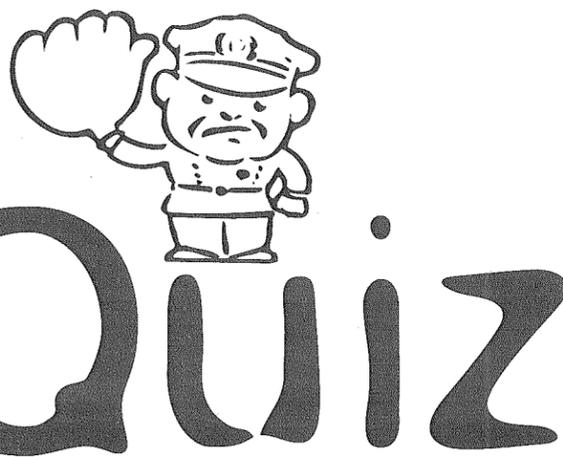
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Quiz

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 - C. Hot new communications software that makes going on-line easier than ever

2. With WinComm PRO you'll be able to:
 - A. Quickly access on-line service using predefined scripts for CompuServe, MCI Mail, GENie and others
 - B. Send and receive Internet e-mail using Delrina Internet Messenger™
 - C. All of the above

3. When the prof gives you an assignment you:
 - A. Panic
 - B. Think to yourself 'It'll be easier the second time around.'
 - C. Smile smugly because you have WinComm PRO 1.1, the perfect research tool that lets you access on-line information with the click of a button

4. Dylan is currently dating:
 - A. Kelly
 - B. Valerie
 - C. Who cares, tell me more about WinComm PRO.

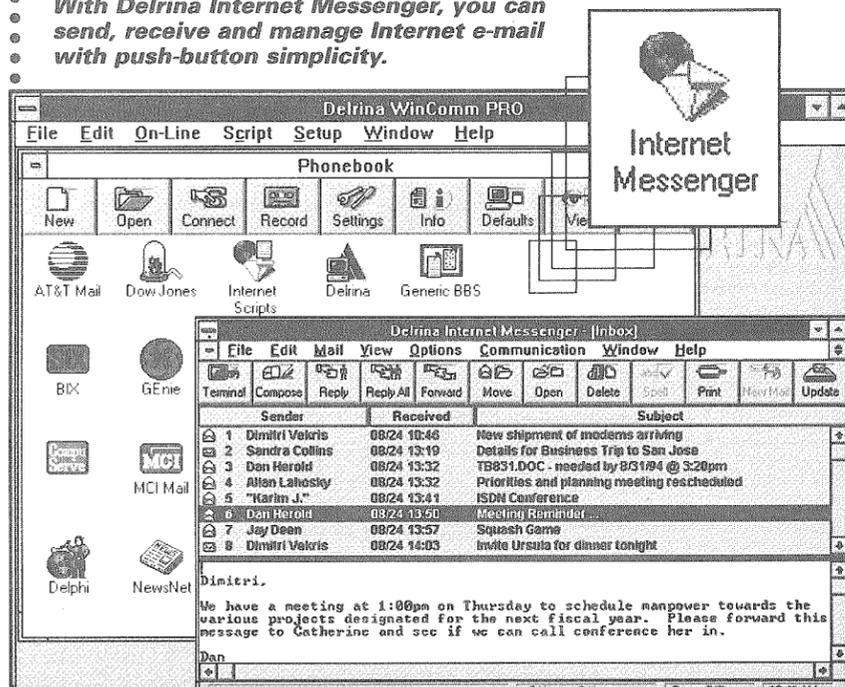
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SPORTS

Fencing Beavers Tear Through Conference

by Austin B. Collins

Last weekend, Caltech's winningest athletic team finished up its regular season at Long Beach State. At the end of the day, three of Caltech's five different fencing teams had claimed placing in the top 3 in

this conference. A Division I NCAA conference, by the way, including the likes of UCLA and Long Beach.

The newest nuisance to those that must fund the trophy cabinets in the new gym is Caltech's women's épée team, which took third in the conference, despite being recruited

late into the season. Their opposition had more candidates, more time to train, and better equipment. None of this was enough, however, to overcome this particular group of armed Caltech students.

Armed Caltech students are becoming a more and more common

sight in awards ceremonies in this division, as our women's foil team made their second consecutive appearance at this year's award ceremony, claiming third place for the second year in a row. Moreover, one of the female foilists, Michelle, claimed third place in the individual rankings as well.

Caltech's sabre team brought a sense of déjà vu to this year's proceedings, taking first place in the division for the fourth year in a row. Also taking first place for the fourth year in a row was Kevin Boyce, setting a record by becoming the first individual to win the sabre title four years in a row. The other sabre teams in the land cheered loudly as it was announced that this was Kevin's final year, but were dismayed by the ranking of sophomore sabre fencer Austin Collins — who placed second in the division, right behind Kevin.

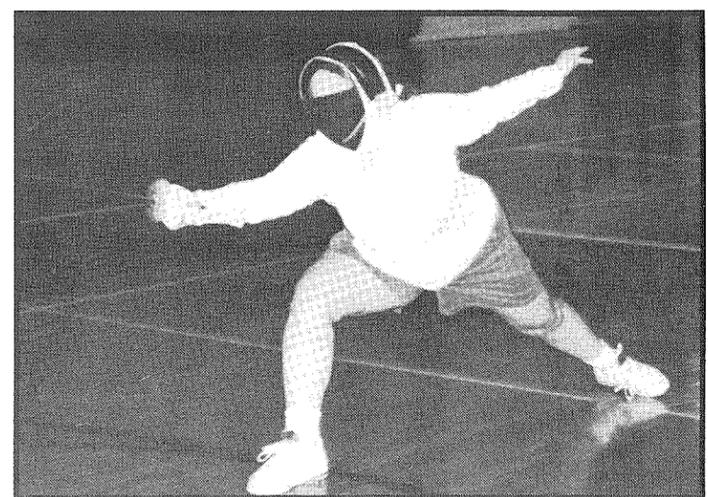
All in all, Caltech brought home 1 trophy, 3 individual medals, and

15 plaques — and that was just practice. That's right, just practice, because this weekend will be the *real* test of the Caltech fencing team. This weekend is the Western Regional championships, featuring all the good schools from this division, with the Air Force Academy and Stanford thrown in just to make things interesting.

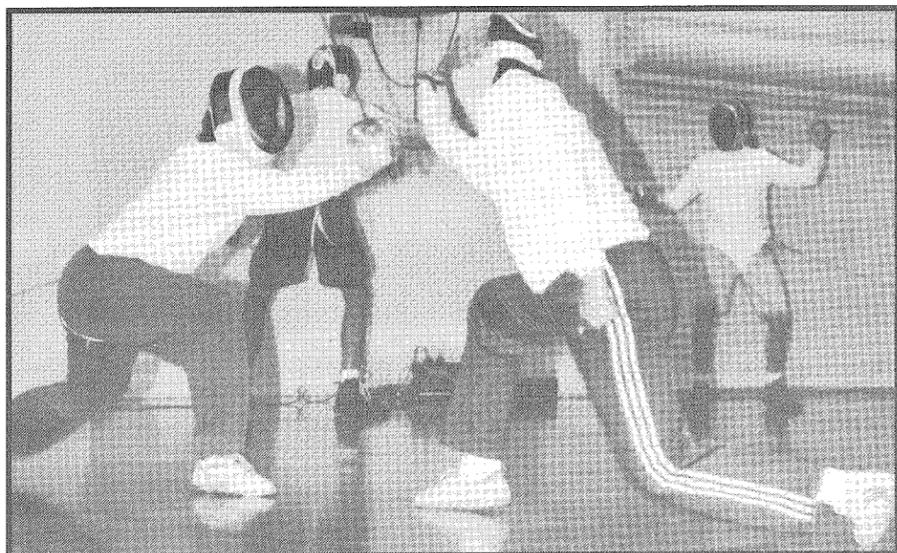
And interesting things will be. With only one member graduating from both Air Force's and Caltech's sabre teams, Air Force will be back and looking for revenge after Caltech humiliated them 6-3 last year.

This year's team has worked all year for this one competition — and it shows in our fencing. So if you see a fencer, shake their hand or give 'em a hearty slap on the back. They've earned it.

Oh yeah, and tell them to kick some <expletive deleted> this weekend at Western Regionals.



Rhonda warms up for the big match on Saturday.



Austin Collins and Keith Seitz sharpen their sabre skills. The sabre team has high hopes for next weekend's Western Regional.

Volleyball Team Dominates at Pomona-Pitzer Invitational

by Rich Chin

Last Saturday, the 25th of February, eight teams met at Pomona-Pitzer for the Pomona-Pitzer Invitational Tournament. The teams included representatives from Cal Poly Pomona, Pacific Christian College, Mount San Antonio College, Southern California College, Claremont-McKenna, two entries from Pomona-Pitzer (Blue and White), and Caltech. Right from the start, the teams realized that it would be as much a test of endurance as one of power and precision. The format: two four-team pools, with matches in pool-play to best-of-three, after which the teams again would have to compete in best-of-three games per match in playoffs. Pool play was to start at 9 in the morning, and the championship match was projected to occur at 7pm.

The first match of Caltech's pool was between Pomona-Pitzer Blue and Caltech. These two teams already had a history as Caltech had lost to Pomona on January 31st in a 5-set heartbreaker. Pomona started quickly, capitalizing on miscommunication in the Caltech defense and a sluggish offense. However, momentum was to swing to Caltech's favor as Andreas Masuhr began to blast kills from the outside. Added to blocking by Ken Wiberg and Mark Lonergan that shut down Pomona's strongest hitter, and Caltech was able to pull ahead to win the first game, 15-13. Caltech then blew away at Pomona's exposed weaknesses and took the second game, 15-1.

Caltech's second opponent was Southern California College. Drop-

ping the first game 11-15, Caltech came back in the second and third under the guiding hands of setter Chad Edwards. Outside hitter Andy Berkin also began to display some of the tools in his repertoire of shots as he racked up the kills. Masuhr was in his element, blasting balls as often over the blocks as by them. Tech took the match in the second and third, 15-7, 15-8.

The team thought it would be in trouble later in the tournament. Masuhr, the powerhouse outside, was scheduled to leave at 2pm, and the matches were long enough that 1:30 came around at the beginning of the Caltech-Claremont-McKenna match. Masuhr was able to play the first game, but CMS came out with a roar, and was able to win, 15-11. However, Caltech persevered in the second, aided by the efforts of defensive specialists Dave Perkel and Rich Chin, and grunted it out to a victory, 18-16. Also, credit must go to Wiberg and Lonergan in figuring out the CMS offense and backing up the serves with monstrous blocks. Unfortunately, the necessity of the change-up in the rotation was to cost Caltech the first seed position as it narrowly lost the third game, 14-16.

Second seed still meant advancement into the championship bracket, though, and Caltech was scheduled to meet the first seed of the other pool. In this case, it meant facing Pomona-Pitzer White. Again, Caltech started slowly, letting Pomona develop a fair lead in the first game. But the passing began to firm up, and Lonergan started pounding away balls almost at will. Stuart Demcak and Ken Wiberg shut

down the Pomona middle attack, and Caltech took the game, 16-14. The middles also became potent offensive weapons as the match continued, and, compounded with everything else, Caltech rolled in both the second and the semifinal match, 15-4.

From a somewhat surprising conclusion to the earlier semifinal, Caltech the faced Mt. SAC in the finals. It took a little time to figure out exactly how to shut down their offense, but Wiberg, Demcak, Lonergan, and Edwards soon dominated the net. Coupled with precision serving by Chin and Edwards, who mercilessly picked on Mt. SAC's weakest links, Caltech was able to take the first game, 15-10. In the second game, Mt. SAC started with a vengeance, trying its hardest to blast past the block and defense with sheer power. Wiberg came up with Caltech's response by roofing Mt. SAC's best hitter 3 times, consecutively. As coach Aaron Kiely later said, "Everything clicked at the right time," and Caltech took the championship, 15-11. Though everyone on the team was jubilant with the victory, the more prevalent emotion was one of exhaustion, as the team had just finished played 14 games of volleyball over a span of 11 hours.

This weekend will also be packed with volleyball. Caltech hosts Azusa Pacific tonight in Brown Gym at 7:30pm, and Mt. SAC comes here on Saturday at 3:45pm. Come out and see Masuhr's "how-does-he-do-that??" kills, and why Edwards' feet are loved almost as much as his hands.

Caltech Track Team Readies for Season

by Dan Kleiman

On a gray day, the Caltech men's and women's track teams had plenty of bright spots as they finished second and eighth, respectively, in an eleven team invitational. Their performances, both individual and team, served notice to the rest of the conference that this year's track teams are planning to do some damage at the conference meet.

For the women, a squad hurt by injury still managed to turn in several high quality performances. Sophomore Radhika Reddy started the Lady Beavers out on the right foot with a win in the meet's first event, the 10K. Cailin Henderson finished the Caltech sweep of the distance events with wins in the 3000 and 1500, both in personal best times. Amy Oldenburg also finished in the money for Tech, with a sixth place showing in the discus in addition to her fourth place performance in the javelin. Gretchen Larson missed points in the long jump by under an inch before having to turn in early due to a muscle injury. Anna Varshavsky continued to improve after coming out late for the team, running 2:46 for 800 meters.

In spite of the small size of the team, the women were only points out of fourth place. Henderson and Oldenburg have already turned in marks which would place very high at the conference championships, and Reddy is undefeated for the season. The women get their first test against confer-

ence competition tomorrow versus Cal Lutheran, Redlands, and Whittier.

Joining the women's team at tomorrow's meet is the men's team, which turned in impressive performances of its own last Saturday. Showing that they, too, could run the distance events, the guy Beavers started quickly, with freshmen Brad Nakatani and Harmesh Lad finishing third and fourth in the 10K. Matt Metz showed his quickness over hurdles through a 6th place finish in the 110 hurdles and a second in the 400 hurdles. Junior Rob Bergeron continued his stellar season with a personal best of 52.04 in the 400 in addition to his 23.75 in the 200. Ron Stieger finished less than one-half second out of scoring in the 800 with a strong race, again coming from behind to pull in the leaders on the second lap. Art Greenberg showed his versatility through several events, highlighted by a personal best long jump and fourth place in that event. The meet ended with the 4x400 relay team running their fastest time of the young season in order to hold off Concordia College, in from Minnesota, by only a few yards, crossing the line in second place.

The men's second place team finish showed that they are ready for whatever the conference throws at them. The Beavers have several strong All-Conference candidates on both the men's and women's teams. The battle for conference titles starts tomorrow on the Tech track at 11 a.m.

Kreative Korner

**The land is
white and silent
Covered in ash.**

**—Michael D.
Benedetti**

Kreative Korner Policy

Guidelines for Submissions.

Submissions are generally creative works, such as narrative, fiction, drama, poetry, artwork, or photographs. Essayists are encouraged to submit to *The California Tech*. Most cartoons should probably belong in the Inside World.

1. All submissions must be in by the Tuesday preceding the issue in which the submission is to appear.
2. Submissions may not contain libelous material without consent of those being libeled. It is the responsibility of the author(s) to check on this fact. Suspicious submissions will not be printed.
3. Submissions may not contain vulgarities. The editor has judgement on what constitutes a vulgarity.
4. Submissions must be turned in by e-mail, Macintosh disk, or 3.5" high-density IBM compatible disk.
5. The author must be part of the Caltech/JPL community. Certain waivers for alumni, friends of the community, etc. may be made at the editor's discretion.
6. The editor reserves the right to edit, shorten, disallow any submission, or take exceptions to these rules.

Bridge Without Sam Good Fences

by Jeff Goldsmith

"Good fences make good neighbors," or so the saying goes. In bridge, "building a fence" means making life easy on partner, so maybe the saying ought to go, "good fences make good partners."

Playing a regional Swiss with a strong partner and good teammates we got blitzed early and are on the comeback trail. In the last match, we cannot win the event, but a big win will see us through to second place. We have obtained a helpful draw for the last round.

No one vulnerable, I pick up in third position

♠ 1042
♥ J9753
♦ QJ105
♣ 10

Partner opens a 10-12 no-trump and while I'm deciding what response to psyche, RHO overcalls 2♥ showing both majors. I doubt I can disrupt this auction, so I pass and hear the following auction perpetrated.

PARTNER	RHO	ME	LHO
1NT	2♥	Pass	2NT
Pass	3♣	Pass	3NT
Pass	Pass	Pass	Pass

Partner leads the ♦3 and I see

♠ J9653
♥ KQ42
♦ VOID
♣ KQ86

♠ 1042
♥ J9753
♦ QJ105
♣ 10

Declarer nonchalantly discards a small heart from dummy and I am thinking, luckily. The normal play here is the ♦10, but I think that is wrong. We play Smith Echo, which means that I can high-low in the first suit declarer plays to show that I like the opening lead suit. With this partner, I have the express agreement that a Smith Echo shows the next higher honor. If I play the ten and Smith, partner will still not know where the ♦Q is and will not be sure to continue the suit. No, it must be better to play the Jack, concealing the Ten from partner temporarily. I'll then Smith to show the Queen, and when partner underleads his other honor to me, I can play the Ten, making all clear.

I play the ♦J to trick one and declarer wins the trick with the King. He cashes the ♠AK and I high-low, a Smith Echo, averring possession of the ♦Q. Declarer continues with a small club and partner smartly hops up with the Ace and plays a small diamond. My Ten and Queen hold, of course, and we run the diamond suit. Partner also cashes the ♠Q for down two.

This is an 11-IMP pickup, since our teammates find 5♣ on this hand, making an overtrick. Declarer has bid badly; he held ♠AK ♥6 ♣K864 ♦J9732. Luckily, we were able to make him pay for it.

The 11 IMPs help produce a full blitz; we end up second in the event.

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YNEWS

by Topher Hunter

Congratulations to Random Acts of Violence, winners of this term's Boffo Boncrusher Broomball Tourney! Competition was stiff, but RAV won out in the end. I'd like to offer my personal congratulations to Team Blacker and the Thundering Herd for outstanding good sportsmanship. I'd also like to offer my thanks to Donna and Alain for their assistance as Health Advocates during the evening. We had a few close calls, but in the end, everyone came out all right.

There's only one week of classes left, and that means Decompression is on the way (next weekend, to be exact). Sign-ups will be going up in the houses today for volunteers. Remember, volunteers receive a free limited-edition T-shirt.

The last bit of news this week is best wishes to Chris and Robin Sundberg, who are expecting their second child to be born sometime this week. Good luck to them both!

That's the news, folks. Hang in there, only one week left!

ASCIT MINUTES

FROM PAGE 1

should be at the Athenaeum, and Jon says it's "really cool to have it somewhere else." If we hold it off campus, more faculty might attend because they're always at the Ath. Students would also prefer off-campus. However, off-campus costs a lot more than the Ath. Greg will talk with some people before finalizing a date (to remove the possibility of conflicts) and he'll look around for places off campus and their schedules. May 20th is extremely tentative. Also, the point comes up that if we could get the alumni could come, they might want to, but we'd have to limit their numbers (or they might outnumber the number of Caltech undergrads there).
 ⇒ Greg also submits a revised proposal for his idea of replacing multihouse funding with \$200/week-end. He admits that the house social directors wouldn't want their money to restricted. Kim gave Tom a hazy answer on a replacement for multihouse funding. Tom brought up the idea at the IHC, and the only comments he received were opposed to the idea. However, last term, Page, Lloyd, Ruddock, and Blacker didn't use their

multihouse funds. Most people (James, Tom, and Ken) think this will lead to big parties every weekend and that this is very undesirable for some people.

⇒ Many questions arise, most dealing with the nature of how ASCIT should fund social activities and what it should be funding. Eventually, we come to the obvious consensus that we should "fund programs to benefit the student body," and opinions on the weekend idea are mostly negative.

⇒ James and Tom are throwing around a paper airplane that clearly wouldn't fly if you tied it to a bird.

⇒ Ken will definitely have an ARC (Academics and Research Committee) by next term (we need to appoint the reps at large.) Ken also is not in charge of the Clue this year, as our new by-laws make the Director for Academic Affairs responsible for the Clue in the school year after they take office. Thus, Flora Ho should be doing the Clue this year (everyone is happy about this, even though Ken will do a good job next year).

⇒ People push the table around a lot. It ends up right where it started.

⇒ Kanna brings up the food issue

again. She too wants food for the meetings. Serious discussion about how we might acquire food.

⇒ James: Maria Satterwhite and John Joseph Carrasco are the new BOC reps at large. He also asks about the Chem 1 grading policy. The general consensus is that first term was awful, but the policy second term is good.

⇒ Jon briefly mentions the SAIG again (when they're meeting, what will be on the agenda, etc).

SEMI-CLOSED DOOR SESSION (not an actual closed door session, or else I'd be in big trouble for printing this) **BEGINS:**

⇒ Lloyd, Page, Ruddock, Blacker, and Fleming all get their \$200 for multihouse funding for second term.

⇒ Discussion on extra funding for OPI: pSSSSST.... psst.... psSSSSt.... hush.... HUSH. psst.

⇒ Everybody agrees that ASCIT shouldn't give extra money to any one particular house, regardless of circumstances. Thus, the vote not to give Ruddock extra money for OPI passes 5-0-3.

⇒ Everybody leaves. Dave complains that we need to close the meeting and is ignored, so meeting closes by default.

Submitted respectfully,
 David Relyea, ASCIT Secretary

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DILBERT® by Scott Adams

1. I'M HAPPY TO REPORT THAT THE "EXCELLENCE IN TEAMING" READ-OUT IS NEARLY READY.

2. IT'S TAKEN FORTY PEOPLE FROM A DOZEN DEPARTMENTS TO COMPLETE THE STUDY. WE FINALLY GOT COMPLETE BUY-IN.

3. IS THAT THE STUDY OF WHY WE CAN'T MAKE DECISIONS? ORIGINALLY, BUT IT EVOLVED INTO MORE OF A DISCUSSION OF SQUIRREL MIGRATION PATTERNS.

4. AND TED GETS THIS SINGULAR ACHIEVEMENT AWARD FOR CREATING THE "WE ARE TEAMS" CAMPAIGN.

5. IT'S A CHECK FOR A THOUSAND DOLLARS! LET'S ALL GIVE TED A HAND.

6. THESE THINGS NEVER WORK THE WAY YOU WANT THEM TO. **SLAP WHACK OW!!**

7. WHY IS IT THAT I NEVER HAVE TIME TO EAT BUT YOU MEN ARE IN HERE EVERY DAY AT 11:35?

8. BECAUSE THE HOURS WE SPENT UPGRADING OUR PCs HAVE FINALLY PAID OFF BY GREATLY IMPROVING OUR EFFICIENCY.

9. I THOUGHT IT WAS BECAUSE WE GET HUNGRY AT 11:30.

10. WE CAN'T REVEAL ALL OUR SECRETS.

11. WE'RE ANNOUNCING TWO NEW PROGRAMS FOR EMPLOYEES.

12. THE FIRST IS A NEW DIGNITY ENHANCEMENT PROGRAM AND THE SECOND IS OUR NEW RANDOM DRUG TESTING INITIATIVE.

13. THE CLUE METER IS READING ZERO. YOU EACH GET A HANDSOME COFFEE MUG AS PART OF THE KICK-OFF.

14. DROP YOUR TROUSERS AND TURN AROUND. I NEED A DNA SAMPLE.

15. WE'RE SCANNING FOR ANY FATAL GENETIC PROBLEMS THAT COULD HURT PRODUCTIVITY.

16. UH... WE DECIDED TO MOVE YOUR PROJECT DEADLINE UP A WEEK.

17. FROM NOW ON, SALARIES WILL BE BASED ON YOUR PREDICTED SUCCESS, NOT YOUR PAST PERFORMANCE.

18. WE RAN A COMPUTER MODEL AGAINST YOUR EDUCATION AND DNA INFORMATION WE PREDICT YOU'LL DIE IN A STAPLER MISHAP WITHIN A WEEK. WHAT IF I DISAGREE WITH THIS PREDICTION? WRITE UP YOUR OPINION AND STAPLE IT TO THE ANALYSIS.

FOXTROT

by Bill Amend

1. MOM! MOM! I DID IT! I THOUGHT IT'D BE IMPOSSIBLE, BUT IT WASN'T!

2. SHAKESPEARE'S NOT SO TOUGH! SHAKESPEARE'S NOT SO HARD TO LEARN! IT TOOK A COUPLE WEEKS, BUT I'VE GOT THIS BABY DOWN COLD.

3. I'M GONNA WALK OUT ONTO THAT STAGE WITH MORE CONFIDENCE THAN YOU CAN IMAGINE. YOU MEMORIZED ALL YOUR LINES?

4. I MEMORIZED MY ENTRANCE CUE. PAIGE, THIS PLAY OPENS WHEN?

5. SEE THIS TAPE ON THE FLOOR, PAIGE? THIS IS YOUR MARK. WHEN YOU FIRST ENTER THE SCENE, I WANT YOU TO BE SURE TO HIT IT BEFORE YOU START SPEAKING. GOTCHA.

6. OK, PEOPLE, LET'S TRY THIS AGAIN. HUSH! HERE COMES ANTONY. NOT HE; THE QUEEN. WHAM! WHAM! WHAM! WHAM!

7. I MEANT STAND ON IT, PAIGE. THAT WOULD MAKE MORE SENSE.

8. ACT IV, SCENE XV. HUH?

9. ACT IV, SCENE XV. WHAT ARE YOU TALKING ABOUT? BLAH BLAH BLAH... "I AM DYING... EGYPT, DYING... BLAH BLAH BLAH... I DARE NOT, DEAR... BLAH BLAH BLAH... AACK! THEY KISS?!"

10. NO, PAIGE, YOU CAN'T HAVE A STUNT DOUBLE. LOOK, I'M NOT SUPPOSED TO DIE UNTIL ACT V...

11. OK, ANTONY, YOU'VE JUST BEEN TOLD THAT CLEOPATRA HAS KILLED HERSELF AND THE ANGUISH CAUSES YOU TO THROW YOURSELF UPON YOUR OWN SWORD.

12. TELL YOU WHAT—LET'S USE YOUR DAGGER INSTEAD. I THINK ABOUT THAT THIS PLAY WAS BEING A MY TRAGEDY DAGGER.

13. PAIGE, LET'S TRY A RUN-THROUGH OF CLEOPATRA'S DEATH SCENE. OK.

14. SNAKE?! YOU WANT ME TO HOLD A SNAKE?! AAAA! GET IT AWAY FROM ME! AAAA!

15. GET IT AWAY! WHAM! WHAM! WHAM!

16. I SAID CLEOPATRA'S DEATH, NOT THE PROP BOY'S. HE COULD HAVE TOLD ME THE THING WAS RUBBER.

17. OK, LISTEN UP, PEOPLE. TOMORROW IS OPENING NIGHT, AND I WANT TO MAKE ONE THING PERFECTLY CLEAR... THINGS MAY GO WRONG. SOMEONE MAY FORGET A LINE. THAT'S THEATER. BUT REMEMBER, THE SHOW MUST GO ON! I DON'T WANT TO SEE ANY OF YOU CRYING OR PANICKING OR FALLING APART AT THE SEAMS. ...THAT'S MY JOB. IF WE SEE SOMEONE WE KNOW IN THE AUDIENCE, IS IT OK TO WAVE?

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Now that you've seen how much fun theater can be, working on the next TACIT production, *Assassins*, will be ten times as much fun! Additional auditions will be held Sunday—see the announcement on page 12 for time and place. Theater Arts can use help offstage as well as on—call x6259 and volunteer!

Notices

NEW The Caltech Y is planning a biking trip on Moab Mountain between March 27th and April 1st. If you are interested in joining in, please contact Chris at the Y, extension 6163.

The Alumni Association is sponsoring small lunches for alumni, students, and faculty. Any student or small groups of students interested in meeting alumni and having lunch with them are welcome to call Karen at extension 6593 or to e-mail her at karen_carlson@starbase1.caltech.edu. The Alumni Association also has funding available for student organizations that encourage interaction between students and alumni. Please contact Karen for more information or to get an application form. The application deadline is March 15th, with funding to be approved by the Student/Faculty/Alumni Relations Committee of the Alumni Association Board of Directors.

The Totem is now accepting submissions! All undergraduates, graduates, and faculty are welcome to submit poems, short stories, essays, photos, art, music, or any original compositions. The Totem is also looking for a creative cover design for this year's volume. Designs should be drawn in ink and be 8 1/2" x 11". Please limit designs to two colors. The winner will receive \$25 and a free, autographed copy of The Totem! The deadline for both talent searches is April 14th. Send all submissions either by e-mail (totem@tech.caltech.edu), mail (MSC 990), or by foot (Page, room 132).

Sharyn Slavin, Assistant Vice President for Student Affairs, and

Stan Borodinsky, Student Affairs Administrator, invite you to stop by the Coffeehouse on Friday afternoons from 2 to 4 p.m. to talk with them. All students are welcome, and free drinks will be available. Please drop by and get to know Sharyn and Stan. They

will be happy to answer questions or provide assistance.

The AIDS Service Center presents "Just Say Know," a free educational support group that will explore different topics related to HIV and AIDS. "Just Say Know" will meet every Tuesday from 6:30 to 8:30 p.m. through March 21st at the AIDS Service Center, 126 West Del Mar Boulevard, Pasadena. To participate, call

Tom Drake at (818) 398-4553.

The Caltech Muslim Student Association will hold Muslim Friday Prayers weekly in the Y-lounge at 12:15 p.m.

"Take a Break and Spend Some Time with Friends." The office of the International Student Programs would like to invite you to our Open House for coffee, tea and conversation. Every

Wednesday from 4:00 p.m. - 5:30 p.m. at the office of International Student Programs, Olive Walk. Open to the entire Caltech community.

NEW The California Tech would like you to help! We are especially looking for photographers now, but anything will do. Come to the meeting on 12:15 today in the Coffeehouse, or talk to a current editor.

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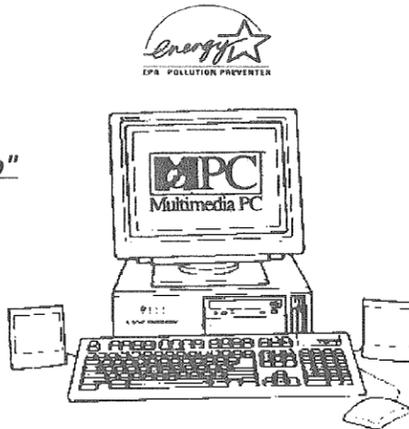
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PCI 486DX2-66MHz w/o CPU	\$135
Pentium 66MHz 256k, w/o CPU	\$195
Pentium 90MHz 256k, w/2 16550C serial, EPP parallel, FD/HD controller	\$275

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ACER 14" 1024 .28 NI SVGA	\$225
ACER 15" .28 NI, LR, "GREEN", Digital	\$335
ACER 17" 1280 .27 NI, LR, "GREEN"	\$615
CTX 14" 1024 .28 NI SVGA	\$235
CTX 15" .28 NI, LR SVGA	\$295
CTX 17" .28 NI, LR SVGA	\$595
MAG 15" .28 NI, "GREEN" SVGA	\$370
MAG 17" 1280 .28 NI, "GREEN" SVGA	\$635
NEC 15" XE15 .28 NI SVGA	\$595

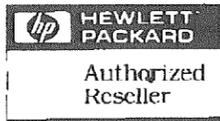
Fax/Modem	Price
14,400 (Internal) w/American Online	\$68
14,400 (External) w/Bit Com	\$95
14,400 PCMCIA w/Software	\$175
28,800 (Internal) w/Software	\$195

Mouse	Price
Microsoft serial mouse	\$39
Compatible 3 button mouse	\$15
Microsoft bus mouse	\$65
Compatible trackball	\$35

Multimedia	Price
Sony 2x Multisession Photo CD	\$125
Teac 4x Multisession Photo CD	\$235
Nec 3x Multisession Photo CD (w/o Controller)	\$265
Sound Blaster 16	\$95
Sound Blaster AWE 32	\$285
Creative Lab - Omni CD 16: 2x CD ROM, Sound Blaster 16	\$195
7 CD Title (Included: Encyclopedia, Aldus Photo)	\$195

Tape Backup	Price
Conner 250MB (Internal) w/Tape	\$155
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From the Counseling Center

The Gay, Lesbian and Bisexual Support Group meets the first and third Tuesdays of each month at 7:30 p.m. in the Health Center Lounge. This confidential meeting is open to all Caltech community members looking for a supportive context in which to address questions and concerns about sexual orientation — including coming out, being out, self-discovery, coping with families... We begin with a focus topic but move to whatever is feeling most relevant to the group that night. Refreshments are served. For information, please call 395-8331.

Coming Events

The Winter Choral Concert, sung by the Caltech Glee Clubs and the Caltech Chamber Singers, will be held on Friday, March 3rd, in Dabney Lounge at 8 p.m. This free concert will include Purcell's "Come, Come Ye Sons of Art," Stravinsky's "Mass, Symphony of Psalms, mov. III," and Britten's "The Ballad of Little Musgrave and Lady Barnard."

The Children's Center at Caltech will be presenting a benefit concert, "An Evening of Chamber Music." The Hye Art Piano Trio will perform works of Tchaikovsky, Mendelssohn, and Babadjanian. The concert will be held on Saturday, March 4th, and 8:00 p.m. in the Dabney Hall. Tickets are \$20.00 a piece.

Math professor Rick Wilson (on baroque flute and recorder) will be joined by local musicians Marisa Rubino (viola da gamba) and Howard Posner (theorbo) for a free concert entitled, perhaps enigmatically, "Basso non continuo", in Dabney Lounge on Sunday, March 5th, at 3:00 p.m. Early and late Baroque music by Frescobaldi, de la Barre, Telemann, Vivaldi, and others will be provided.

The Theatre Arts at California Institute of Technology announces auditions for the production of Steven Sondheim's *Assassins*, a controversial historical musical about the Americans who kill. There are currently about twenty-one roles available in various age ranges, including one male child and several non-singing roles. Auditions are scheduled for Sunday, March 5th at 6:30 p.m. in the Ramo Auditorium on the Caltech campus. All auditioning are asked to be prepared to sing and dance. The production also needs instrumental musicians, especially trumpet, trombone, and woodwind players, as well as technical help. The performances will be from May 26th through June 4th. Please stop by the auditions if you are interested, or phone TACIT at x6259 for more information.

The Arditti String Quartet will give a Coleman Chamber Music Concert on Sunday, March 5th at 3:30 p.m. in the Beckman Auditorium. Included in the program will be Dutilleul's *Ainsi La Nuit*; Gubaidulina's Quartet No. 3; Nancarrow's Quartet No. 3; and Berg's Lyric Suite. Fifty tickets to this concert will be available to Caltech students with identification. (limit two tickets per I.D.), available from the Caltech Ticket Office north of the Beckman. Tickets are regularly priced from \$12.00 to \$22.50.

The Eaken Piano Trio will give a free concert on Sunday, March 12th, at 3:30 p.m. in the Dabney Lounge. This Paco A. Lagerstrom Chamber Music Concert will include Haydn's Trio in A-flat, Hob XV:14; the world premiere of Lalo Schifrin's "Homage à Ravel"; and Mendelssohn's trio in D-minor.

The Caltech Folkdancers Club will be hosting a concert starring Miamon Miller and Friends "playing for your dancing and listening enjoyment" on March 14th at 9:00 p.m. in the Dabney Lounge. For more information, please call 797-5157. Donations will be graciously accepted for this concert.

The Pasadena Center will be holding a Star Trek Grand Slam Convention from March 17th through March 19th from 11 a.m. and 6 p.m. This convention will "celebrate three decades of television's favorite interstellar phenomenon when a galaxy of stars from all four Star Trek incarnations come together." The convention will host guests Majel Barrett, Avery Brooks, John DeLancie, Kate Mulgrew, William Shatner, Brent Spiner, George Takei, and more. Tickets to the convention will be \$35 for Friday, \$40 for Saturday and Sunday. Call x1543 for more information.

The Ysaye Quartet will give a Coleman Chamber Music Concert on Sunday, April 2nd, at 3:30 p.m. in Beckman Auditorium. Included on the program will be Mozart's String Quartet in C Major, K. 465, "The Dissonant"; Erwin Schulhoff's Quartet #1 (written by this Czech composer in 1924, this piece is described as impressionist, atonal and jazz influenced); and

Announcements

☉ denotes a new announcement.

Mendelssohn's Quartet in D Major, Op. 44 No.1. Fifty free tickets will be available to Caltech students with I.D. through the Caltech Ticket Office, just north of the Beckman Auditorium parking Lot. Tickets are regularly priced between \$12.00 and \$22.50.

Talks, Lectures, and Seminars

Dr. Lee-Lueng Fu, senior staff scientist at the Jet Propulsion Laboratory, will give a Earnest C. Watson Caltech Lecture entitled "The Ocean and Climate: Observations from Space" in the Beckman Auditorium at 8 p.m. on Wednesday, March 8th. Admission for this lecture is free.

There will be a course in self defense held by the Women's Center in the Winnett Lounge on Tuesday, March 14th, at 5:00 p.m. All those interested in attending are asked to reserve a place by calling the Women's Center at x3221.

Club Announcements

The Caltech Ballroom Dance Club is now offering free beginning ballroom classes to all. Our beginning classes are Mondays at 7:00 p.m. in Winnett Lounge. You don't need any experience, nor do you need a partner to join in on the classes. On March 6th we will learn the rumba, and in future classes we will cover the cha-cha, fox-trot, and swing. For more information, contact Bob Herman at rherman@arms.gps.caltech.edu, or at 393-4720.

The Caltech Ballroom Dance Club is also sponsoring an open ballroom dance practice this Friday, March 3rd, at 7:00 p.m. in Winnett Lounge. Come with or without a partner. All experience levels welcome.

The Caltech Swedish Club will meet at 3 p.m. on Sunday, March 5th, at 2508 3rd Street, Apartment 8, Santa Monica to drink coffee and eat "semlor" and Swedish cookies. Anyone interested in Scandinavian culture or speaking Swedish is welcome. For more information please contact either Lars Svensson, at (310) 450-4008 or at e-mail svensson@isi.edu or Lena Peterson at extension 6994 or e-mail lena@pcmp.

The Caltech Folk Music Society are looking for more volunteers to help with mailing and publicizing their concerts, learning how to engineer the sound system, setting up before and tearing down after the concerts in exchange for free admission and a great opportunity to schmooze with guitarists, songwriters, and bluegrass musicians. If you are interested in giving a few hours a month, or would like to receive announcements for each concert, give Rex a call at 791-4583.

Internships and Competitions

The Congressional Research Service, a department of the Library of Congress created to provide research, analysis and reference services exclusively to Members and committees of congress and their staffs, is seeking out volunteer interns to assist CRS analysts in two areas: Native American issues and issues in the Education and Public Welfare Division, such as current financial reforms. Volunteers will assist professional CRS staff in performing research and reference in response to public policy related inquiries. Some volunteers can assist in the development, planning, and coordinating of seminars and briefing programs for members and committees of Congress and their staff. Open to college undergraduates, graduate students, post-graduates, and professionals, candidates should have food research and writing skills, and knowledge of computer and statistical skills are a plus. Although there is no financial compensation, volunteers will be able to participate in the legislative process and develop their research skills in a prestigious public policy institute. Appointments are typically three months to a year, and applicants simply need to send an application for Federal Employment (SF-117) or resume along with a writing sample, a cover letter with dates of availability, area of interest or expertise and two references from faculty members and/or employers to Warren Lenhart, CRS Administration Office Library of Congress LM-208m Washington, D.C. 20540-7110. There is no deadline on sending your application.

The Literature faculty is pleased to announce the 49th Annual McKinney Competition. The Mary A. Earl McKinney Prize is awarded each year for excellence in

writing. Only full-time students officially registered at Caltech as undergraduates are eligible to enter the competition. This year prizes will be given in three categories: poetry, prose fiction, and non-fiction essays. All submissions must be typewritten and double-spaced. In the poetry category, entrants may submit up to three poems. Submissions of prose fiction should not exceed 12,000 words. Essays may be ones prepared for a humanities class or any good piece of original writing on a topic relevant to the humanities. The prizes in each category will be \$300. Each student is entitled to only one entry in each category. All contestants must submit their work to Professor Jenijoy La Belle, Division of the Humanities and Social Sciences, 101-40, by no later than May 4th. No entries will be returned. Each category will be judged by a committee from the Literature faculty. Essays will be judged on the quality of thought and the effectiveness of the writing. Winners will be announced the last week of May, and the names of the winners will appear in the commencement program. The Committee may divide the award in each category in case of more than one outstanding submission. Previous winners in any one category are not eligible for the competition in that category. If you have any questions, contact Professor La Belle at extension 3605, or Barbara DiPalma at extension 3609.

The 1995 Hydro Power Contest provides students throughout North America an opportunity to demonstrate their engineering prowess, ingenuity, and mechanical skills while competing for recognition and thousands of dollars worth of scholarships, cash, and prizes. To participate in the competition, contestants are required to construct a device that converts the gravity potential of water into mechanical power. Competitors can either design a device producing maximum power or maximum efficiency. College students, as well as other interested individuals, are invited to enter this contest, which is being sponsored by over 37 governments, utilities and government organizations in the U.S. and Canada. The contest will be held during the Waterpower '95 conference in San Francisco, July 25th through 28th. To enter, competitors must purchase a turbine kit for \$15. To purchase a kit or receive more information, contact Laura Smith-Noggle at 410 Archibald Street, Kansas City, MO, 64111, or at (816) 931-1311.

The Deans' Office is accepting proposals for the Monticello Foundation Internship. Three Caltech undergraduate women (current freshmen, sophomores and juniors) will be given an opportunity to participate in research projects outside the Caltech-JPL community for ten weeks during the summer. Each student will receive a \$3,600 stipend. Applicants are required to identify the projects in which they wish to participate. All arrangements with the principal researcher will be the responsibility of the student. If you are interested, simply identify a sponsor for your experience at a research facility for a ten-week period. In a short essay, describe your project, and submit it to the Deans' Office, 102 Parsons-Gates, along with two faculty recommendations. Proposals are due by March 3rd.

The John Locher Memorial Award Competition will be holding their ninth annual Editorial Cartoon Contest for amateur cartoonists between the ages of 18 and 25. Sponsored by the Association of American Editorial Cartoonists, the award winner will receive an all-expense paid three-day trip to the AAEC cartoonists convention in Baltimore. To enter, simply submit clean photo copies of your best four editorial cartoons to Dick Licher, room 444, The Chicago Tribune, 435 North Michigan Ave., Chicago, IL 60611-4041. The deadline for this competition is April 1st.

Fellowships and Scholarships

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

Green Hills Software annually awards several merit scholarships in the amounts of \$2,500 and \$5,000 to Caltech undergraduates who have demonstrated ability and special aptitude in computer science. Those awards are for the Junior and Senior school years. In addition, Green Hills will award one or two Undergraduate Fellowships consisting of a Senior year scholarship plus a \$6,000 summer internship for the preceding summer. All awards are merit awards, given

without regard to financial need. Any student currently holding a Junior year award must reapply in order to be considered for a Senior year award. The deadline for submitting the Green Hills Scholarship application to the Financial Aid Office is March 10, 1995. Applications are available at the Financial Aid Office, 515 S. Wilson, and the Dean's Office, 102-31.

The American Scandinavian Foundation of Los Angeles (ASF/LA) is awarding four \$1,000 scholarships to undergraduate and graduate students with a demonstrated interest in Scandinavia. Applicants must have strong academic qualifications and must show financial need. Two letters of recommendation, appropriate transcripts, and the completed application are due by March 15, 1995.

The American Association of University Women, Danville-Alamo Branch, will be awarding several scholarships of \$500-\$1,000 to female students who will be juniors or seniors in the 1995-96 academic year, and who are from the San Ramon Valley (Danville, Alamo, San Ramon, or Diablo, CA). For more information or an application packet, send your request with a \$52 stamped, self-addressed large envelope (minimum 9" x 6") to: Janet Lather, 703 Contada Circle, Danville, CA 94526. Completed applications must be postmarked by March 31, 1995.

The Sunkyoung Group of Korea presents its Third Annual Essay Contest for undergraduate and graduate students in the areas of business, government/law, science, and journalism. There will be four \$500 awards, four \$1,000 awards, and four \$2,500 awards. The \$2,500 award winners will also receive a one-week trip to Korea. Past winners of the essay contest are not eligible to compete. Guidelines for the essay contest are available at the Financial Aid Office. All contest entries must be postmarked no later than April 7, 1995.

The Chinese-American Educational Foundation is offering scholarships to graduate and undergraduate students of Chinese descent. All applicants must be full-time students in 1995-96, and have at least a 3.0 GPA, and undergraduates must have completed at least one year of study. Completed applications must be received by April 10, 1995.

The Jewish Community Foundation and The Jewish Vocational Service have scholarship applications available now for several different scholarships under their administration. The scholarships are designed to provide financial assistance to Jewish students who are legal residents of Los Angeles County, enrolled full-time, and are able to document significant financial need. Application forms may be obtained from Jewish Vocational Service until March 1, 1995. Write to: Room 303, 6505 Wilshire Blvd., Los Angeles, CA 90048, or call (213) 653-2858. Completed applications are due April 13, 1995.

The American Women's Club in Sweden announces that a travel grant will be awarded for study and research in Sweden. The amount of the grant will be equivalent to the cost of an APEX round-trip ticket between New York and Stockholm. To qualify you must be: an American citizen; female, age 18 or over; accepted for a period of study or research at a Swedish educational institution or agency; and show evidence of need. The completed application and all supporting documents is due no later than April 15, 1995.

The American Electroplaters and Surface Finishers Society is offering scholarships to upper class undergraduate and graduate students who are interested in careers in the surface finishing field. This includes those majoring in the fields of Chemistry, Chemical Engineering, Environmental Engineering, Materials Science, Materials Engineering, Metallurgy, or Metallurgical Engineering. Applications and all requested documents must be postmarked by April 15, 1995.

The John Gyles Education Fund is again this year offering financial assistance to students in the United States. Canadian or American citizenship is a requirement. Awards are available for all areas of post-secondary study. A minimum GPA of 2.7 is required. Criteria other than strictly academic ability and financial need are considered in the selection process. Selected students will receive up to \$2,500. Deadlines for 1995 are April 15th, June 15th, and November 30th. Applications must be mailed by those dates. Students may receive applications by sending their request, along with a self-addressed, stamped (US 32 cent) No. 10 envelope to: The John Gyles Education Fund, Attention: R. James Cougle, Administrator, P.O. Box 4808, 712 Riverside Dr., Fredericton, New Brunswick, Canada E3B 5G4.

FIND/SVP is offering eight scholarships totaling \$25,000. Under the Tools for the Future Scholarship Program, eligible students can apply for two \$5,000 awards with 40 hours of FIND/SVP research services and a paid summer internship; or for six \$2,500 awards. To be eligible for these awards, in the Fall of 1995 you must be in an undergraduate or master's degree program in business, library science, computer technology, information studies, market research, or journalism/communications. You must also be a legal resident of the U.S. Completed applications and all supporting documents are due no later than April 28, 1995.

The meeting for Fellowships and Scholarships has been moved from March 24th to April 17th due to a conflict with spring break. All Juniors and Seniors are highly encouraged to attend this meeting at 12:00 noon in Winnett Club Room 1; Fellowships such as the NSF, Marshall, Rhodes, Hertz, and Fulbright will be discussed, and a pizza lunch will follow. If you would like to attend, please e-mail your name, class, and major area of study to: Lauren_Stolper@starbase1.caltech.edu by April 13th. If you have any questions, please call x2150 or e-mail to the address above.

Traveling abroad this summer? Then pick up the newest edition of Student Travels Magazine in the Fellowships Office. The latest edition covers European train travel, volunteer work in France and Germany, snowboarding in Chile and Argentina, and how to get a job abroad. If you would like a copy sent to you through campus mail, e-mail your name and box number to Lauren_Stolper@starbase1.caltech.edu.

If you enjoy teaching and kids/teens in the K through high school range you might enjoy doing a Teaching Fellowship after graduation. Science and math teachers are usually in high demand, and many Caltech students have teaching or tutoring experience. A teaching fellowship can be a wonderful interim year and a great way to experience a different part of the United States. Some independent schools are residential and others are day schools. I have recently acquired a list of current teaching fellowship opportunities at independent schools. Typically fellows receive a stipend (approximately \$15,000 to 17,000 at a boarding school plus room and board). At a day school the fellowship will have a slightly higher stipend. If you would like a copy of this list, more information on these fellowships, or help applying email Lauren Stolper at Lauren_Stolper@starbase1.caltech.edu. Deadlines vary and can be as early as February or as late as June, so start exploring this fellowship now.

Attention undergraduates interested in the application of technology, innovation, or entrepreneurship: Spend next fall as a Lemelson Fellow at Hampshire College in Massachusetts. As a Lemelson Fellow you are part of a group of fellows from across the country. Each fellow participates in a special fellowship course that focuses on solving real-world problems using innovative ideas and technology. Fellows also choose courses at Hampshire and the other schools in the Five College Consortium (Amherst, Smith, Mt. Holyoke, Hampshire and U. Mass Amherst). This fellowship honors Jerome Lemelson who holds more patents than any other living American and the third largest number in American History. Lemelson, now 70, spent the majority of his career as a successful, independent inventor. Full-tuition and fees are paid for Fall 1995. The application deadline is March 15th, 1995. Email Lauren Stolper at Lauren_Stolper@starbase1.caltech.edu for applications.

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