



The California Tech



Volume XCV, Number 28

Pasadena, California

Friday, May 20, 1994

Karate Alumni Honor Ohshima Sensei

by Betsy Marvit

Mr. Ohshima, who has taught Karate at Caltech for 37 years, will be retiring at the end of this term. A 'final practice' and demonstration are planned for this Sunday at Brown Gymnasium at 2 P.M.

Heaps of mail have been arriving from alumni who cannot come. If it were possible to do so without a breach of faith, I would simply print their letters. Nothing else I could possibly write would convey just how much of an impact Mr. Ohshima has had on the lives of the students he touched.

Just how special a teacher is Mr. Ohshima? One could talk about

how competent, how famous, or how humble he is. But really, the

response of his old students speaks for itself. On the order of one hundred alumni will be coming to this practice from all over the country—many of whom have not been back to Caltech in twenty to thirty years—to convey their gratitude and respect.

Caltech karate-ka spanning the whole 37 years will be present. The higher ranking of them will be giving demonstrations that really are not to be missed. All are welcome and encouraged to watch from the stands. Even if you are not interested in martial arts, you may never get another chance to see such a high-powered group in one place again.



Tsumoto Ohshima meditates. He will retire after this term.

PHOTO BY BOB GOLDMAN

Women's Water Polo Takes on Whittier

by Agota Spizts

Last week, Whittier came over to Caltech for a midweek game. Both of the teams were evenly matched as no lead was safe from the other team's offense. In the opening minutes of the game, the Techers were throwing the ball wide of the goal, although three shots did find their mark in the first quarter. But Whittier scored two goals in the last 26 seconds to take a 4-3 advantage. Highlights of the first stanza included a quick inside goal from Nikki Takaraise and Cheryl Anderson breaking into the open for a nice drive-in goal. In the second

quarter, both teams scored three goals as Freshman Jennifer Ohgi came alive to pop in two goals within a minute, and Anderson finished a three-on-two break with a tip-in goal. Halftime still found Caltech down 7-6.

In the third quarter, Caltech came alive from the setter's position as Anne Hover dominated the position with a four-goal quarter, and Anderson scored another outside shot. Those five goals pulled the Techers even with Whittier at eleven all. The large crowd was rocking as

both teams traded goals, and the defense began to stiffen, thanks to Cary Gazis playing the field and Suzanne Rosik's solid stops in the goal. The fans were standing as Hover put Caltech into the lead, 14-13, with 1:50 left in the game. Whittier was working hard and tied the game with 48 seconds remaining. It looked like the game would be heading into overtime when a Whittier player was found to be playing a little too rough and was ejected with 17 seconds left. A quick shot by Gazis was blocked and landed just to the right of Anne Hovel who shoved the rebound in to win the game with nine seconds left. Final score: Caltech 15, Whittier 14.

Scoring for Caltech was Anne Hover 6, Jennifer Ohgi 4, Cheryl Anderson 4, and Nikki Takaraise 1. Also singled out for outstanding play were Freshman Jen Holland, who played her first game and did a great job at midtank; and defensive specialist Cathy Trachok. Coach Dodd seem pleased with the team's effort and picked Hover's effort in the second half as the key to the victory: "Anne scored her six goals all in the second half when both teams were tired from the fast pace of the opening period."

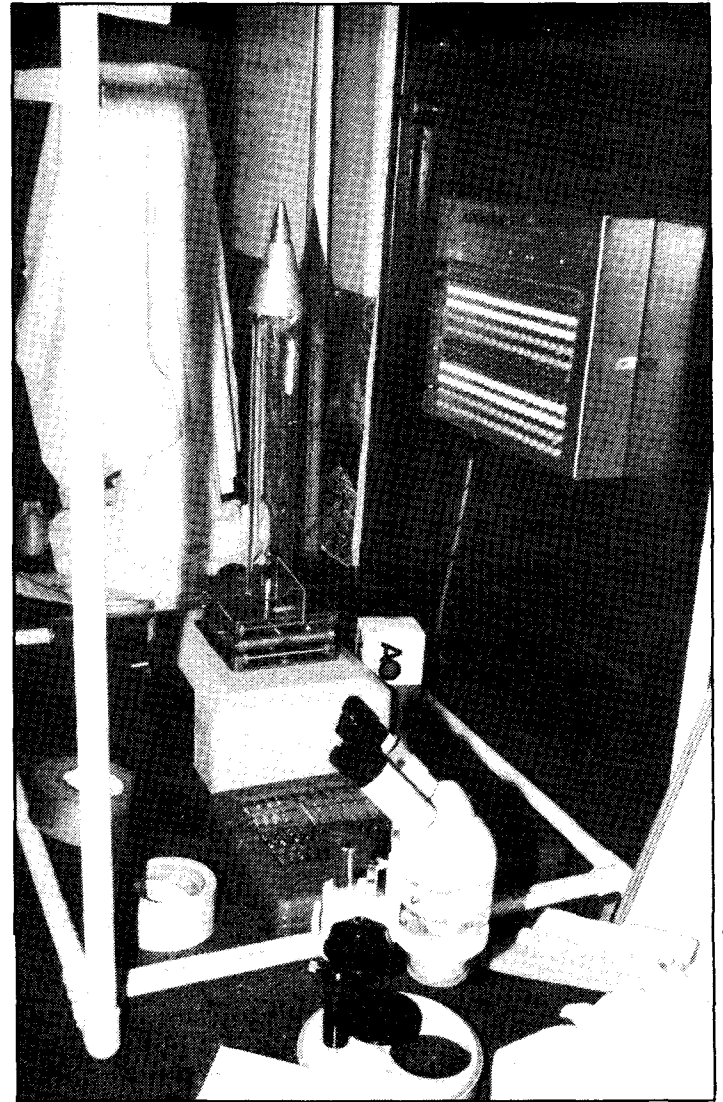


PHOTO BY SCOTT NOBLE

DITCH DAY '94

Just a typical nuclear warhead on Ditch Day. For more on what happened on Tuesday, see pages 4-5.

Class Officer Nominations Opened

by Cedric Hobbs

Nominations will open on Wednesday, May 25, 1994 for the President and Secretary/Treasurer of the Senior Class and the President and Secretary/Treasurer of the Junior Class. The senior class officers are responsible for setting the date of Senior Ditch Day and for determining the form of the year's commencement exercises. Nominees must be members of the current junior class. Junior class officers are responsible for planning Mudeo, which is a freshman-sophomore event held during first term, and they must also obtain a speaker for their class's commencement exercises. Nominees must be members of the current sophomore class. The officers of each class will be elected

by members of that class.

Nominations for the four offices will be open until 5:00 P.M. on Tuesday, May 31, 1994. If you are interested in running for one of these offices, please print your name on the nomination sheet posted on the east side of Winnett and send a signed note to the ASCIT Secretary, David Derkitts at MSC #553. In addition, it is recommended that nominees submit a statement to *The Tech*, the deadline for submissions is 5:00 P.M. on Wednesday, June 1, 1994. Elections will be held on Friday, June 3, 1994.

If you have any questions, feel free to contact me at cedricit@ugcs, 568-0001, or MSC #260. Thank you, and good luck to all nominees.

A letter was received by us last night at 6:30 P.M. from ASCIT President Angie Marie Bealko, right before the Tech went to press. The contents of the letter are as follows:

I, Angie Marie Bealko, do hereby resign from the position of ASCIT president. Thank you.

(signed)
Angie Marie Bealko
May 19th, 1994

For additional information regarding the search for the ASCIT President's replacement, see the follow-up article on page 14.

Free Pizza!

Coffeehouse, 12:15, Today

OF COURSE, THERE'LL BE A SMALL FAVOR YOU'LL HAVE TO DO FOR US.

Letters to the Editor

A View on Mr. Lieske

In Mr. Lieske's editorial last week, he argued that if a man could love a man and a woman could love a woman, then just as easily a human could love a dog or even a can opener. I don't know how Mr. Lieske spends his free time, and I won't deny that pets can be comforting, but I have never had a conversation of significant depth or emotional content with a dog. Perhaps in the near future Mr. Lieske's smiling face will appear on the front page of *Weekly World News* under the title "Man Finds Affection, Intellectual Stimulation, and Support in Time of Need from his Appliances," but such relationships are beyond my realm of experience. Even if Lieske has received emotional support from a can opener, I would like to see him try to return that support. After all, mutuality is an essential part of a relationship.

However, I do have friends who are male and friends who are female, and I might even say they have been equivalent <gasp> in their emotional importance to me. If both sexes can be equal as far as fulfilling all of the emotional roles of a friend, I do not think it is too large of a step to say that both sexes can fulfill the emotional roles of a lover.

To dismiss homosexuality as a sexual fetish on the level of bestiality or appliances—to ignore the mutuality, the trust, and the emotional independence—does not demonstrate much understanding of love, the very subject of much of Mr. Lieske's article. I think it is Lieske's arguments which should be dismissed instead.

Kevin Boyce

Calculator Love

Regarding the article "A Liberal's View on Bestiality" in the May 13, 1994 issue of *The Tech*. In order for the author's argument by *reductio ad absurdum* to hold any water, one must hold that love as experienced between two humans is indistinguishable from a love of animals or of inanimate objects. To most people, the distinction is obvious and does not require quantifying. And here, I had thought the stereotype of the Techer in love with his calculator was only a myth.

Kevin Cooper

A Modest Proposal

We are all becoming more and more aware of the earth's overpopulation. Cursed with a geometrically increasing reproduction rate, humankind is drowning in the Malthusian swamp. Most solutions to the problem devised so far involve birth control or self-control on a large scale. I would like to put forth a modest proposal which requires action only on the part of an intelligent, sensible, wealthy, and politically powerful few.

See, we take all the liberals, and all the conservatives, and all the religious fanatics, and anybody else with a Cause, put them into one big spaceship, and launch them all into the heart of the sun. If they don't debate each other to death along the way, trying to convert people who are firm in their beliefs and happy to demand that others share them, maybe the intense radiation will mutate them into beings capable of respecting other people's views and maintaining their own at the same time.

Think of what we could accomplish with a whole species of constructive, collaborating, intelligent beings. Why, limited resources would be no barrier at all to a species whose members can cooperate with each other while maintaining their own individuality. Think of the efficiency! Instead of pumping billions of dollars into propaganda machines, lobbies, and election campaigns, they could spend their resources on improving communication, information management, and resource processing.

Admittedly, this plan is not detailed, and I suspect that there may be a few rather difficult details to overcome. I suppose there's also a slight chance that the radiation from the sun would thoroughly broil the said Crusaders before they mutated into nice people. But then we'd have lots and lots of pre-cooked nutrition, safe to eat in 50,000 years or so. Think of it as an investment.

In the meantime, people who consensually love people of type A could consensually love people of type A, and people who consensually love people of types B, C, and D could consensually love people of types B, C, and D, all in peace and quiet. And nobody would have to waste time debating definitions for something as patently undefinable as love.

Love,
Matthew Derer

A View of Bestial Liberals

In "A Liberal's View on Bestiality", appearing in the May 13 issue of *The Tech*, Steven P. Lieske criticizes Vicki Brown's article, appearing in the April 29 issue of *The Tech*, where she asserted that love between members of the same sex has the same validity as that between the opposite sexes, and society should recognize that. Lieske's *reductio ad absurdum* response is to say that if you're going to accept Ms. Brown's assertions—her paradigm?—at face value, then you'll have to recognize prostitution, bestiality, etc., as valid forms of love also. A point that Mr. Lieske gets to, when he stops being facetious, is:

If we accept the loose interpretation of "free love" that I have made use of, then we are left with a situation in which one's fondness for a particular can opener can be elevated to the level of marital bliss.

Alas, nobody, not even Mr. Lieske, is using that interpretation, except for stuffing strawmen. The trouble with this argument is not that there's a slippery slope down, but that there's an even more slippery slope up.

It used to be the case that blacks were believed to be incapable of love—only sexual attraction—and they could not legally marry. Interracial love was condemned, so there were laws against miscegenation. Premarital intercourse was illegal. By today's standards, these laws are intrusive, archaic, even hateful. Today, opposite-sex couples of legal age can,

with very few exceptions, get married regardless of their individual physiologies or backgrounds. Society recognizes their union as, to use Lieske's words, "a valid form of love." Society didn't always do so. Was society right back then? Were not slip-

pery arguments advanced to defend such laws? Was the Supreme Court wrong to strike down Virginia's miscegenation laws? What's missing from the argument is that bestiality is no closer to homosexuality than it is to heterosexuality. What is closest to homosexuality and bisexuality is—surprise—heterosexuality.

Lieske goes on to say:

If, however, we demand a stronger definition of love, then there must be some sort of objective criteria which love must meet. This is the key point which any discussion of homosexuality must address... Unfortunately, as it is the human condition that we are dealing with, it seems impossible both to establish these criteria and to determine whether they are satisfied by a given relationship.

That's like setting the bar so high

"The trouble with this argument is not that there's a slippery slope down, but that there's an even more slippery slope up."

that people not only can't jump over it, they can't even see it. Even if such "objective criteria" can be found, why wouldn't we be applying the same criteria to straights? The only criteria for society's acceptance, in the legal sense, of heterosexual love is the ability to say "I do" in front of a minister or a judge. Isn't it time we just took the word of adults who say they love each other and stop gerrymandering the definition of love to exclude people that large segments of society don't like?

Finally, I take issue with the whole way that Lieske made his critique of Brown. He cannot make extensions,

even in jest, between same-sex domestic partnerships and "canine partnerships," and not strain credibility when he says "nowhere did I express my opinion of homosexuality in any way." Maybe he didn't, but when you kick [expletive] in someone's direction, don't expect to keep the shine on your shoes.

Bill Irion

Please send submissions for letters to the editor to The California Tech, Caltech 40-58, Pasadena, CA 91125, or by e-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. Anonymous letters will not be printed.

The California Tech

Caltech 40-58 SAC, Pasadena, CA 91125
phone: (818) 395-6153
e-mail: editors@tech.caltech.edu
ISSN 0008-1582

VOLUME XCV, NUMBER 28
MAY 20, 1994

EDITOR-IN-CHIEF
Jeff Denniston

MANAGING EDITOR
Cherish Bauer

COPY EDITOR
Kenneth Lee

LAYOUT EDITORS
Wei-Hwa Huang
Tom Grundy

BUSINESS MANAGER
Dov Rosenberg

ILLUSTRATIONS EDITOR
Annaliese Beery

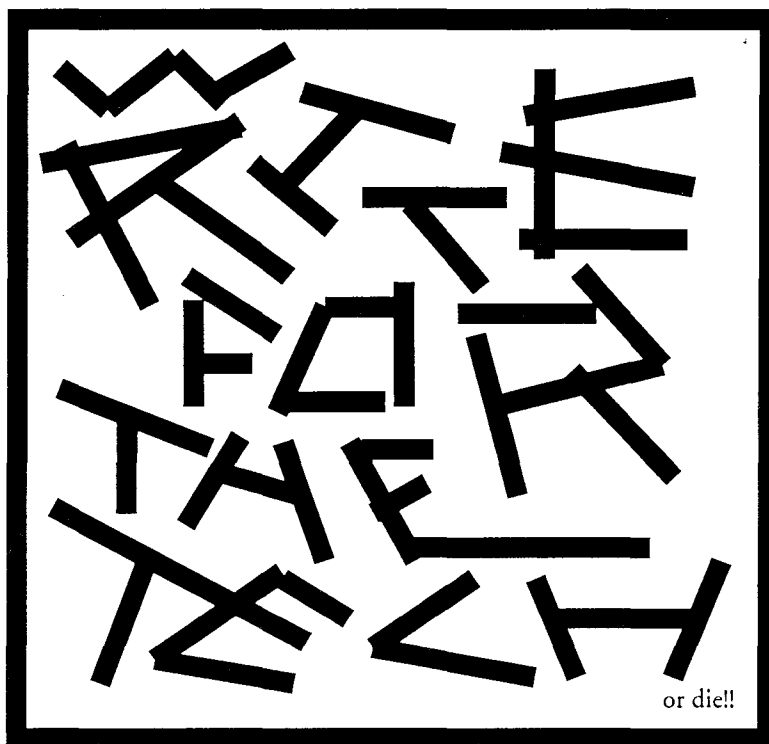
SPORTS EDITOR
Anil Roopnarine

CIRCULATION
Rebekah Mills
Wei Lin

STAFF WRITERS
Toby Bartels
Margaret Belska
Zack Berger
Ross Brown
Connie Chang
Jeff Goldsmith
J. Random HercFrosh III
Wei-Hwa Huang
Michael Kantner
Lauren
Laurent Stadler
Adam Villani

CONTRIBUTORS
David Derkits
Tom Dmukauskas
Flora Ho
Mitra Hartmann
Axel Kratel
Sakae Suzuki
Sam Webb
Charles Witham

PHOTOGRAPHER
Richard Zitola



Editors' Corner

As usual, here is the list of submission deadlines for *The Tech*:

Letters to the Editors—5pm Monday
Events and Notices, Unsolicited Articles—5pm Tuesday
Regular/Semi-Regular Columns, Assigned Articles—5pm Wednesday
Art Submission—5pm Thursday

Our last two issues of the year should both be 12-pagers, so we could use lots of news (our Dilbert is running thin). So make sure to come to our Friday meetings at 12:15pm

in The Coffehouse and get the scoop on the latest news ready to be written up. With the help of the student body and an enthusiastic staff, we should be able to finish off the year with some quality issues.

The issues which have arisen in the past few opinion sections have generated some very interesting debate. The opinions of Techers are finally beginning to show through, and this is a trend we would like to continue all the way through to the end of our editorial term next year.

THIS FRIDAY, DON'T MISS THE ASCIT MOVIE!
"TWO THUMBS UP, WAY UP!"



"IN A WORD, GREAT!"
—JOEL SEIGAL, GOOD MORNING AMERICA

THE
JOY
LUCK CLUB

Baxter Lecture Hall
and next week:

7:30 & 10:00pm



\$1.50 for ASCIT
\$2.00 all others

ADAM VILLANI: MEDIA GUY



By Adam Villani

The Crow

The Crow is not a fantastic movie, but it is an exciting action flick that goes a step beyond typical fare like *No Escape* with its slick cinematography, macabre *Batman*-esque cityscape (at a fraction of the production cost), matching modern soundtrack (featuring the Cure and the Thrill Kill Kult), and a charismatic lead who doesn't talk like a robot. The story and screenplay are the movie's weakest points. It's a standard "guy gets killed and comes back for revenge" story, and much of the dialogue and situations seem contrived. There's also little suspense; since the Crow (Brandon Lee) is invincible for most of the film, offing the bad guys is just a matter of logistics. The visuals more than make up for this, however. Lee writhes in pain quite well, and the camera follows him like a panther. I also liked the calmer scenes in which Lee tries to understand his undead condition; he's believable both as a normal guy and a creature of the night simultaneously. It's best to turn off your brain and just watch this one. It's probably the best no-brainer since *Terminator 2*.

Positive P.C. points for casting Brandon Lee, a Eurasian, in a non-Asian-specific role. He doesn't even do any Kung Fu. Negative P.C. points for continuing the "Oriental Dragon Lady" movie stereotype. Bonus awarded to the casting director who managed to find a sympathetic kid—in a supporting role—who isn't annoying.

Thirty-Two Short Films About Glenn Gould

Director François Girard has created a new way of doing biography pictures with this innovative film that delves directly into Canadian pianist Gould's psyche instead of cheapening his life by turning it into a story. I had hardly heard of Glenn Gould before I saw the film, but after twenty minutes I felt as if I knew him personally. The thirty-two component films that form a larger whole range from interviews with collaborators to narrative vignettes to the classical equivalent (?) of music videos. Gould was an eccentric, fascinating person. He stopped performing concerts at the age of 32 and instead only made studio recordings; there is a clever and insightful bit written by Gould himself in which he interviews himself, playing devil's advocate to his ideas on performance. As the movie progresses, we gradually learn what caused his demise at the age of fifty in 1982, and all the way, we learn more about his habits, mannerisms, neuroses, desires, and his whole person. I highly recommend this excellent film.

Mosaics at LACMA

I had never been to the Los Angeles County Museum of Art before this week, and I wish I had had more time to visit. One particular exhibit I wasn't expecting, but was particularly intrigued by, was the Gilbert Collection of mosaics. The most jaw-dropping of the works were the Roman micromosaics, which have hundreds of tesserae (individual pieces of colored glass which compose the larger picture) per square inch; upon first inspection I didn't even believe some of them were mosaics at all. Also on display were a number of Florentine mosaics; these use much larger marble tesserae and are interesting particularly from a geometrical point of view. I'm no art critic, but I know what I like and I suspect that many Techers would also find this exhibit interesting.

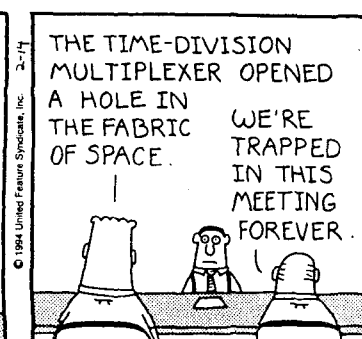
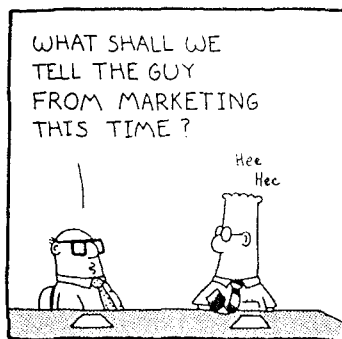
Subtle Idiocy in *Rolling Stone* Magazine

The *Rolling Stone* letters page, which, as a holdover from a bygone era is still called, "Correspondence, Love Letters, and Advice," features several small cartoons each week illustrating a sampling of that issue's mail. Upon closer inspection, it is revealed that the cartoons add no new ideas or interpretations to the letters they illustrate. They simply serve as a sort of illiterate TV-generation shorthand of the letters page for those who feel like picking up a magazine but don't feel like reading. But then, the letters to *Rolling Stone* are perhaps even more moronic than the magazine itself, so it's not like people miss much by not reading them.



PHOTO BY RICH ZITOLA

The Caltech Glee Clubs will present Gilbert and Sullivan's "Trial by Jury," a comic musical, at their annual spring concert. The performances will be in Dabney Lounge tonight and Saturday night at 8 pm. The Glee Clubs will also sing a selection of opera choruses from such operas as *The Magic Flute*, *Carmen*, *La Traviata*, *Faust*, and *MacBeth*. Tickets are available at the door for \$5 student admission, \$7 general admission. Seating is limited; arrive early to ensure yourself a place. A reception will follow both the Friday and Saturday night concerts.



Poo Ping Palace Makes Great Thai Food

by Michael Kantner

Some restaurants have good names, some have bad names, and some have names that leave you wondering. The Poo Ping Palace, a Thai restaurant, falls into the last category. Seven friends and myself drove to Tujunga to see what is perhaps the worst named restaurant in all of Los Angeles. Could you imagine being the clerk that handled their permit application? Don't they pay city employees to give a little advice? I was informed that the Poo Ping Palace is a royal home in Thailand.

Once we were done joking about the name, we looked at the menu. Since I had never eaten Thai before, I had no idea what to order. I decided to be brave and avoid the Chinese dishes. I chose Kan Ka Ree, a curried dish. My friends selected orange flavored beef, Da Nang chicken, and several other dishes with names I could not spell. Egg rolls and tempura were chosen for appetizers.

The restaurant does mostly take out business. The dining area was not elegant—Plexiglass covers the tables. Surprisingly, linen napkins and non-disposable chopsticks were used. The service was good, although our waitress (perhaps the owner) could not explain the menu very well.

When I asked what Kan Ka Ree was, the response was "a curry." I knew that much. Overall, it was nicer than I expected.

My only previous experience with Thai food was eating Thai potstickers from Trader Joe's. I thought they were horrible, so I was worried about my dinner. Fortunately, all my worrying was for nothing. The appetizers were delicious. The egg rolls were hot, crispy, and not too greasy. They contained no meat, so the two vegetarians in the group could eat them. The tempura was not soggy at all—the batter was

perfectly fried. The dinner entrees were equally good. I can't describe the dishes well, but I liked each dish I tried. Everyone thought the food was good. Dinner, including tax and tip, was \$12 per person.

Since I've never eaten Thai before, I do not know if it was worth the drive. However, for a restaurant to survive with that bad of a name, the food must be good.

Poo Ping Palace. 6583 Foothill, Tujunga, CA. The nearest cross-street is Tujunga Canyon Road. (818) 352-6061. Entrees range from \$5.00 to \$10.00.

Ocean Coral Restaurant

Two-Star Award Winner
by the Southern California
Restaurants Association

2475 EAST COLORADO BLVD., PASADENA
FOR RESERVATIONS: (818) 449-8018

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

MANDARIN CUISINE AND SEAFOOD

LUNCH SPECIAL
Choice of 13 entrees
11:30 a.m.-3 p.m. from **4⁵⁰**

EARLY BIRD DINNER SPECIAL
Choose from 13 items
3-7 p.m. DAILY ONLY **5⁹⁵**

CLASSIC DINNERS
Sunday-Thursday 3-10 p.m.
Friday-Saturday 3-10:30 p.m.
Between Altadena Dr. & Sierra Madre Blvd.

DITCH

RUDDOCK

by Tom Grundy

Ditch Day in Ruddock this year combined a little of everything. Some stacks required sheer brute force, while others involved tests of knowledge. All in all, Ruddock's Ditch Day turned out to be fun for all the underclassmen.

The "Mr. X" stack kept us all guessing for most of the day, searching for clues in various parts of Pasadena and all corners of campus. Some of the more obscure clues involved decoding pages of musical notes and attempting to funnelate

apples and oranges with air compressor tubing, which gave an effective range of nearly ten feet. The set included a pleasant escape from the north half of the Ruddock Library which was converted into a kidnapping scene.

Another notable stack in Ruddock House was modeled at least in part after the movie *Sneakers*, which by its very nature promised for an exciting day of sleuthing and other covert operations. Despite computer problems and other small hindrances, this stack was hailed as one of the most interesting ones in Ruddock.

Other Ruddock stacks included a Mafia setup, a drug cartel, and a large spider suspended in the middle of Beckman Institute's courtyard. Several seniors also got together to construct a relatively straightforward brute force stack on the side to relieve the load from the other stacks. While this one may have been straightforward, it took the energy of a large number of Rudds and a few very large and heavy tools to break through the three layers of reinforced cinder block, rebar, and plate steel.

By the end of the day, Ruddock was back to normal—filled with happy Techers and the cries of "Ditch Day is tomorrow, frosh!"

RICKETTS

by Wei-Hwa Huang

According to some, Ditch Day '94 was worse than the previous years. These people cite the fact that there were people who managed to sleep until noon before getting up and coming to that realization. For the rest of us, however, this Ditch Day was as interesting as any other Ditch Day we went to.

For these fortunate (or unfortunate, depending on your point of view) souls, at 8:30 a.m., they witnessed a large maypole being constructed in the middle of the Ricketts pot. A group of eight people weaved in and out, running in circles,

until the colorful ribbons ran down to the bottom of the pole. "What? You mean there were *more* instructions?!" At around 9 a.m., witnesses could see a sorry group of students unraveling a tightly ribboned pole.

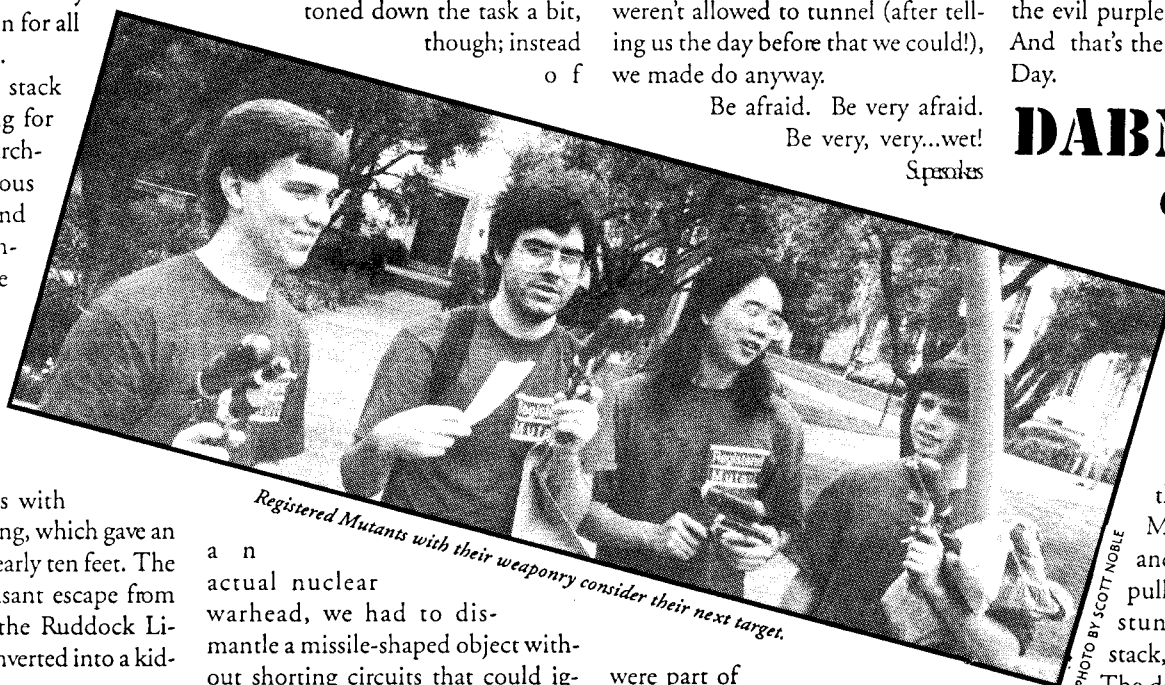
In another part of the house, a few of us were trying to defuse a nuclear warhead. The senior had toned down the task a bit, though; instead

that with the Lobster Quadrille...Uh-oh, the lobster tails in the Jabberwock disintegrated. Time out! We're going to catch us some crawdads before we can finish this stack. Hey, after making the Cheshire Cat disappear and after going down the rabbit hole, we can do anything! Although Housing told us that we weren't allowed to tunnel (after telling us the day before that we could!), we made do anyway.

Be afraid. Be very afraid.

Be very, very...wet!

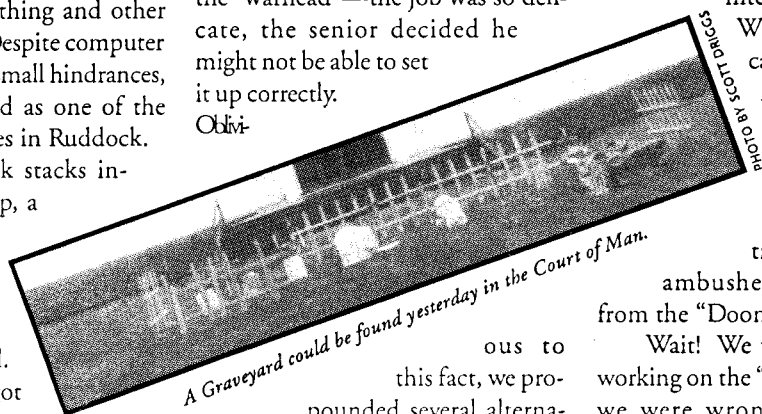
Speakes



Registered Mutants with their weaponry consider their next target.

a n actual nuclear warhead, we had to dismantle a missile-shaped object without shorting circuits that could ignite and destroy the vital clue inside—well, that was the idea. Actually, because of a mistake we might as well have used a sledgehammer on the "warhead"—the job was so delicate, the senior decided he might not be able to set it up correctly.

Obvi-



A Graveyard could be found yesterday in the Court of Man.

ous to this fact, we propounded several alternative methods of getting in, including melting a hole in the plexiglass with a soldering iron.

Another group was running around campus, looking for places mentioned in the "1001 Ways to Use a Towel" stack. We had to rack our brains amidst the Vagon poetry readings to come up with different ways to use towels—or go and look for the

credit

vouch-

ers. We

decided

to go for

the

vouch-

ers.

Around

lunch-

time, we

took a

rest with

a variant

o f

cricket

that involved

hitting people's

shoulders and

chanting "Beeblebrox."

After lunch,

those of us in

the "Alice in

Wonderland"

group were

just about ready

to kill the

Jabberwock with

our vorpal blades

that went snicker-snack. (Actually

it was just a piñata.) We followed

were part of the "Paranoia" stack, where we shot each other over and over until we ran out of clones...like we're going to run out of an infinite number of clones.

We traveled around campus, watching the maypole group shoot rockets from BBB to Baxter. After finding our own clue, we traveled back...to get ambushed by those people from the "Doom" Stack.

Wait! We thought no one was working on the "Doom" Stack! Well, we were wrong. Although the "Doom" Stack got off to a slow start, two of us managed to score enough points by doing various asundry things—including sneak attacks on the Paranoia stack—and so we got to split the giant bribe among two people!

Bullocks. That sign. It doesn't say "Bullocks" anymore. Do you know what it now says? No, you



How To Make Ice Cream: First, get some LN2...

think too dirty. It now says "Bollocks," which is in reference to a early twentieth century part of pop culture when...but we can see you're really not interested. Maybe later.

BOOOM! What was that? The Fleming cannon sounded already? But those of us in the Smiling Happy

Barney Stack weren't finished yet! We only just found a newscaster (yours truly) to defeat in "Don't Break the Ice!" and still have to decode this "Teweik Dor" person! No matter, we'll continue working on the stack...and sure enough, around 6 p.m., we treated all of the Scurves to a glorious dissection and burning of the evil purple dinosaur in the Pot. And that's the real ending of Ditch Day.

DABNEY: "KISS"

by Michael Benedetti

How do you combine the Gods of Rock and a small electric fish into a coherent stack theme? Just ask Jim Murdoch, Aaron Petty, and Kevin Kraft, who pulled off this unlikely stunt in making their stack, "Kiss My Fish."

The day began as the tired but excited underclassmen crowded around Kevin's door, staring at a small computer screen. After reading a short essay on how Kiss changed Kevin's life—man, is this guy old!—we were told that, as rock stars, Kiss loved glistening, wet women. After a series of clues, the focus of the stack gradually shifted to glistening, wet fish, specifically, the

small electric fish living down stairs in Dabney.

We learned that this "Fish God" had caused Kiss to break up and that it was our task, as the Kiss Army, to defeat the slimy devil. We wandered around campus, searching each of fifteen "fish lairs" for clues. After taking a break to duct tape a senior to a tree, we were able to use the clues—with the help of the Kiss WWW server, here at Caltech—to enter the Kiss Altar, Kevin's room. There, four of our number donned makeup and became the members of Kiss.

After lunch, we followed more clues in our attempt to destroy the evil fish. We were to attack the "Fortress of the Green Elephant," the Dabney courtyard, and demand that the people working on the other stacks surrender a clue they had stolen. Meanwhile, Daniel "Paul Stanley" Maskit received a psychic message telling him that the attack

instructions were a trap by the Fish God and that we had been possessed by his evil spirit.

And so the Kiss Army attacked the other stacks with water weapons, driving everyone from the courtyard. In a last ditch effort, Daniel blasted the Kiss classic "Firehouse" and shouted the words of exorcism. The other members of Kiss, wary of the evil spirits, apologized to the other wetter underclassmen and continued with the stack.

A second round of clues led us to the "underwater tunnels" where we were to find the equipment that would allow us to reclaim the Power of Kiss from the Fish God. After a tortuous and painful journey to the farthest reaches of the tunnels, we had a small radio, a tape recorder, and some electrodes. What were we to do? Someone suggested we measure the electric field of the fish and record it on tape. After allegations of drug abuse, we tried this, and it worked! (The fish buzzes at around 730 Hz.) We had "taken the power from the Fish God." We played the tape into an input on Jim's door, transferring the power back to Kiss and opening his transom.

Man, what a stack! Thanks to all the seniors (and Vanessa too!).

BLACKER

by Zack Berger

The stacks of Mole seniors were inspirational, ambitiously creative reworkings of modern societal assumptions; and they didn't suck.

Sarah Yoder's "Griffin Sierra" stack asked its participants to find Sierra, an artist-poet with griffinish affinities; with this stack was associated an exhibit of griffin theme art. Gary Olsen's "The Mission: Impossible Rookie Team" stack featured



Junior John King breaks into the Ruddock Brute Force Stack.

hardworking, ordinary Moles transformed—through impossibly arduous tasks—into a crack intelligence unit. Silly people worked on Sandee Perez's "Alice in Wonderland" and did silly, fun things, while the weather-beaten and adventurous braved the wilds of Speck Green and Joan Marie Gimbel's "Backcountry" stack. The latter involved crossing—by pulley—a rope bridge over the Filipino courtyard. Chandler McDowell's "Manly Men and Womanly Women" had as its deceptively simple-seeming task the lifting of a 55-gallon drum of water, attached to a ten-foot buried pipe, without touching its bottom. Ten Dennis

DAY 1994

Quaids saved Mars in Bevan Bennett's "Total Recall" stack, getting help in a lunch time meeting with rebel leader Kuato at Eddie's Market. Israel, Russia, and the USA competed in the "House o' da Munt's International, Cosmopolitan" stack. P.J. Go and Wurzel Keir trapped clues to their "Edgar Allan Poe" stack inside a concrete box; the final solution required the assembly of a map-drawing computer program. Late into Tuesday night, and into Wednesday, concrete hammering could be heard throughout the house. Matt Johnson's "The Mechanical Engineering Universe: Advanced Edition" involved "just a bunch of cool stuff," someone said helpfully. Not the least of these was Miikka Kangas's; his opulent bribe (a six-pack of Dr. Pepper, a ball of twine, and some plastic flashlights) merited a counterstack (a van de Graaf generator, a fan, and bean-bag filler).

Many of these stacks used the courtyard's Maze of Housing Furniture, a one-and-a-half-story-high hymn to humanity's struggle to succeed.

LLOYD

by Jane Brock

Lloyd had a variety of stacks this year, most of which involved both tasks and brute force. Don North, Craig Smith, and Keith Schneider built "The Three Stooges" for which the first task was to brute force into Craig's room. After getting through a plaster barrier, they were faced with concrete wall reinforced with steel bars. Breaking through this, they found a television screen monitoring their activities. They were then required to find three keys to open the next door to discover their bribe.

Karen Shih and Christy Esau's "Foul Play" began with a list of the murders of 26 seniors and the locations which these murders occurred. At these locations, further clues were discovered as to what the victims were doing at the time. Solving these clues led to additional letters. After this we were given a sledgehammer to knock down the brick structure. In the structure we found a doll in which the location of the bribe was included.

A group from a variety of houses including Dan Millward, Justin Lawyer, Aaron Hawkins, George Papa, Mike Maxwell, and Mike Goody put together a stack which involved making a calendar of the "Men of Caltech" and videotaping "Every-

thing you've ever wanted to see at Caltech." Highlights of the calendar, which required the models to pose shirtless, included "model" Harry Gray. Unfortunately, President Everheart refused to be included. The videotaping included the swimming coach being rescued

the tunnel the group reached a waterfall and was finally able to climb into the purple monsters computer control center. They were then forced to solve a computer maze, with the screen only visible from the cave and the commands only able to be entered from the Lloyd computer room.

A very impressive Vikings ship was built by Lisa Moesker, Wendy Belluomini, and Deb Martin as part of their "Vikings" stack. One of their many tasks was to retrieve the contents of a helium balloon that had been allowed to float to the ceiling in Dabney Hall. A final stack in purple alley was "Mars Observer" by Hyong Lee. Their clues were located all over Pasadena—including at JPL—on a hiking trail in the San Gabriels and in a rented storage shed.

BLACKER: COUNTER-STACK

by Tatsuya Murase

It was Tuesday, and it was Ditch Day. I had decided that I wanted to work on Miikka Kangas's stack. James Honaker, Ken Walsh, Mike Stage, Ernest Tomlinson and Seong-Yun Kim also decided that they needed to spend the day under Miikka's command. It was 8:05, so we felt compelled to open the envelope marked "open at 8:05". It was the "usual" introduction into a stack, and told us to take a shower and be presentable by 8:25.

The 8:25 clue instructed us to go to the top of Millikan to eat a hearty breakfast of "Team Flakes" cereal. The next task was to drop oranges from the top of Millikan to a plastic sheet below so we could drink some of the "juice of the gods", and to calculate the height of Millikan from how long it took the oranges to fall. I can't remember what we calculated, but the right height is something like 140 ft.

So far not too exciting.

Next we were to take some cans of spray paint and touch up the "Midnight Oil" graffiti in the tunnels. Then we were to add the Dirac equation for spin 1/2 particles somewhere.

Still, not very exciting.

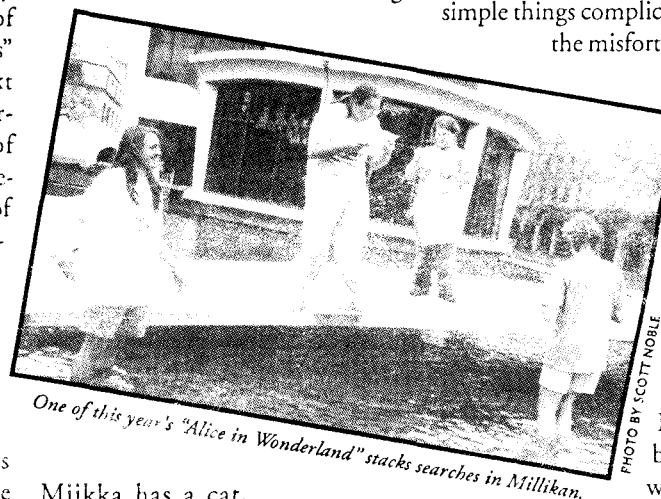
We were done with what we had to do before noon at around 10 AM. Ken and James mumbled "lame" and "counter" and "stack". We agreed this had better get more exciting after lunch.

At exactly noon, we met up with Prof. Schwarz, Prof. Wise, and Prof. Preskill for an appetizing lunch at Eddie's with about 200 other stacks. It was pretty interesting talking with them about stuff, especially jumping behind a rock when a nuclear device goes off nearby. We parted ways and went back to work on Miikka's stack.

We did some other random things, like passing out flowers to secretaries, um, I can't remember what else. But we were finished at around 3, and found ourselves the proud winners of Miikka's bribe that consisted of: rolls of film, lots of hot cocoa packets, a six-pack of Dr. Pepper, a bottle of Trader Joe's juice, flashlights with batteries, a ball of twine, and Uncle Sam's Cereal ("a natural laxative"). After much "what the heck"ing Ken and James went to that bean bag store on Rosemead, and Mike and I went to requisition one Van de Graaf generator from 201 Bridge. When we got back to Miikka's room, we started charging up the bean bag filler (aka little insidious bits of styrofoam) with the van de graf. Then the fun began. Ken and James, donning masks, spread the bean bag filler all over the place, spreading it all over the loft where Miikka slept, and every single breast pocket of Miikka's jackets. We brought in a fan to speed things along. There was a good 6 inch layer of bean bag filler all over his floor.

Then we waited until Miikka returned. He was a bit surprised at the extent of how thorough Ken and James had been. But he laughed, and made a snow angel in the stuff anyway. Then we went out to eat, whereupon he explained that he (ahem) didn't have enough time to finish the bribe. Most of us were dead asleep at the restaurant so it didn't really matter.

There is an "epilogue" to this whole thing.



One of this year's "Alice in Wonderland" stacks searches in Millikan.

Miikka has a cat, Splotch. He was careful to make sure Splotch didn't go through any of the styrofoam and placed Splotch on the loft which he had cleaned out a bit. So he sat there petting Splotch, de-

ing his homework for a while, when Splotch suddenly jumped down from the loft. Having been petted for an hour, Splotch had accumulated a pretty good charge and well, there was all that bean bag filler left down there...

FLEMING: "QUICK ENTRY"

by Marc Coram

One of the most intriguing and technological stacks among Fleming's Ditch Day Stacks was Joseph Chiu's "Quick Entry" stack. It began by suggesting, through several cryptic clues, that its participants stroll around campus sweeping the grass with bright orange metal detectors. This began well; it was a paved



"I love you, you impale me..."

that the participants were on the trail when they found a metal loop among the grass, but this was just the beginning of their confused adventure. This time, the loop was a device of intentional misdirection. It slowed them down a bit, but in some time, they found the correct loop, which was attached the room's key.

Now, they needed only the room's combination. The solution was not too complicated: follow some clues to retrieve a listening device; use the listening device on wall of his room to hear a low frequency message which revealed the room's combination. Tech students, however, can always find a way to make simple things complicated. They had the misfortune of noticing

that one of the circuit diagram's of the metal detectors was different than the others by complete accident. It wasn't long before they were opening the detectors clues and trying to decipher the "secret" message in the diagram. Reminiscing, one tech commented, "Oh well, it was fun... we should have known not to make it too complicated."



Senior Paul Rothmund gets duct-taped to a chair after being discovered in Beckman Institute

PHOTO BY SCOTT NOBLE



Maypole in Ricketts Courtyard

PHOTO BY SCOTT NOBLE

IHC Minutes

May 16, 1994

Present: Stanley Grant [Chairman], Dennis Ugolini [Ru], Kevin Boyce [Ri], Mike Pawson [Proxy for Mike Debar, LI], John White [Fl], James Honaker [Bl], Jim Murdoch [Da], Mikey Ng [Pa], Biff and Tom Mannion [Housing Office], Alison Slomp [Secretary], and David Derkits.

General

Tom says that the son of Lord Walker from England is making a round-the-world trip for graduation and is coming to Caltech. He is arriving on the 18th and will be staying in Braun House. He is either graduating from high school or college. Tom is not sure. Tom would like it if the houses wouldn't mind if he came to dinner during his stay so he could see how the undergraduates live. He will be staying through the 28th. Everyone seems interested.

Jim mentions he'll be here for Dabney's Drop Day party.

Tom also mentions that housing has ordered chicken wire and plastic

for Lloyd's party this weekend.

New Housing Contract

Biff wants to talk about the terms of the new cancellation policy. It is a different procedure from last year in that housing wants people who have picked institute housing for the fall and know they will not be using it to cancel on or before June 1st.

This change has been made in attempts to reduce the number of people on the waiting list. Biff says there is too much uncertainty for those on the waiting list under the old policy and too many vacancies are created in the fall that housing can't fill because those people on the waiting list have given up hope and found other accommodations. People who do not cancel properly (on or before June 1 for Fall housing) will be responsible for full first term room, and board if applicable. If you can replace yourself with someone who is without a contract or on the waiting list then you are cleared.

But the question is proposed, "What if the student can't find a replacement?" There has been a suggestion to spread out the fees and a student would only pay for the net damage, such as if there are thirty cancellations and 25 replacements are found then the people who canceled after the deadline would split the cost of five rooms—and board, if applicable.

However, problems arise. The incentive is to get someone not on any list to replace canceled students. This shafts those who are on the waiting list—those who housing is trying to help. Going down the waiting list first however would be unfair to the student leaving the room as they have to wait for this procedure to end before being able to find someone on their own.

The possibility of imposing a prorated penalty is brought up. Mike Pawson thinks this is unfair. Someone in a premium room has no incentive to cancel early because they will have to share in the penalty. If they know they can fill the room (a Del Mar single for example) then they will wait until after the September 1st penalty deadline.

John he was the one who origi-

nally looked at the contract and talked to Tom about the problems he had with it. John continues with the problem saying that housing is not responsible for the rules a leaser would be in terms of commitment. Someone in a Marks single would not necessarily be able to fill from non-waiting list people since they will probably have found housing by September 1st.

Tom says that the prorated charge policy would then work as a minimum charge that increases towards the maximum as the deadline approaches.

Mike Pawson says that we should not want to drastically change the policies now that a lot of people have submitted contracts. He questions if this would be fair or right.

Tom and Biff say that the policy for filling a space was not explicitly stated in the new policy as to leave room for different interpretations so they could see how it would work.

John suggests allowing the person canceling to find a replacement they may not end up there if housing finds someone more appropriate (e.g. someone from the waiting list).

Kevin thinks people would abuse this. People might say "oh, I found someone so I don't have to pay."

Mike Pawson says that having them sign a contract to prove it isn't fair because they aren't guaranteed the room.

Stan wants to know how much money housing is losing due to all the vacancies.

Biff guessed that they lose \$75,000 - \$100,000 a year because of vacancies.

Kevin suggests that changes to the contract will be okay since it can be done before the off-campus picks and that the only people who have signed the contracts have picked on-campus and those people aren't very likely to cancel.

James disagrees. Blacker has several people that have picked on and are probably moving off.

Dennis says Ruddock has several, too.

Biff says that anyone who signs a contract is signing it for the entire year. Withdrawal and graduation are understandable exceptions. Someone signing a contract for first term is committing to a full year. There is an increasing number of people moving into non-institute housing which is okay, as long as this trend is not a result of spaces not being available.

Kevin suggests mailing a statement telling people the problems that are caused because of people picking rooms with no intention of living there. He thinks people might be more reasonable if they knew there were seriously disadvantaging others.

Stan says that people in premium rooms on-campus will not want to fill there room with someone on campus with a lesser room so they will find someone to move in to avoid having to fill a lesser space. This causes a problem with house picking orders.

Biff says that this is not a problem for first term, but will be a problem in subsequent terms.

John suggests having the net payment divided among everyone.

2:05 p.m. Mike Debar enters.

Mike Pawson thinks that housing is giving the people canceling the wrong incentive.

John reiterates that the vacancy charges should be divided among all the people who violated the cancellation policy regardless of whether they filled their space or not.

Biff says that there would be no incentive to cancel early.

John suggests a first month - last month policy for after September 1.

Biff says that people will be charged the minimum first. Best case is \$0 before June 1st and worst case (full) by Sept. 1.

Mike Pawson says that prorating the board contract gives people the right to use it if they are paying for it.

Tom says that at another school if someone breaks the housing contract they are responsible for the full charges and the room remains empty (because someone has paid for it).

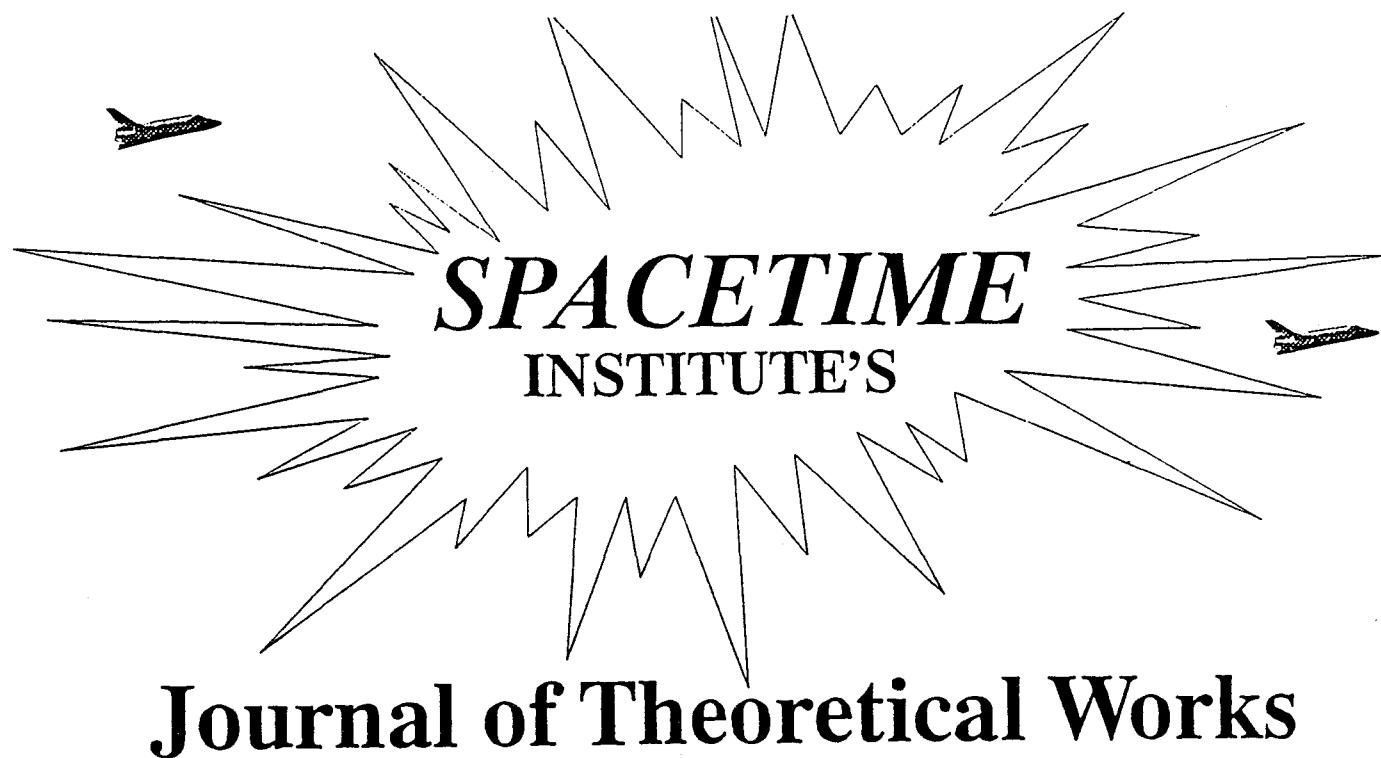
Kevin says housing should take out the provision of filling the room. Policy violator will have to pay something, regardless of filling the room. It's not fair to people with low picks. They have no chance of filling the less desirable rooms.

Stan comments that most people didn't realize the change in the policy when they signed.

Biff says the policy gives the student the chance to try and minimize the loss.

Kevin says that having the per-

SEE IHC, PAGE 8



...CONCEPTS, IDEAS, AND OPEN THOUGHTS...

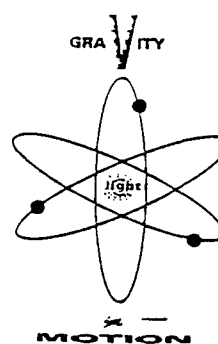
Ever wanted to publish a new idea? The SPACETIME INSTITUTE needs your help to communicate new ideas in cosmology, astronomy, particle physics, matter waves, optics, electromagnetism, gravity, and other modern physics subjects. The JOURNAL will also publish papers concerning the state and well being of the scientific community. Suggestions on how to improve the flow of information, ideas, and teaching methods in science will also be included in the JOURNAL. Over 500 colleges, observatories, and laboratories participate in our writing network. Someone in the network may be on the same wavelength as you. It's a GREAT OPPORTUNITY to communicate important ideas. Tell a friend!!

Every new concept or idea is welcome. Professors, higher degree candidates, students, and hobbyists are all encouraged to participate. If published, you will receive **\$250.00!!!**

LET THE GOOD THOUGHTS FLOW!!!!

Send your papers to: SPACETIME INSTITUTE
1058 Hampton St. NW
Atlanta, GA 30318-5439

Or call: (404) 892-5499





Student Opinion

A Beast's View on Liberality



by Vicki Brown

Hmmm. Er, yes. Well! Where to begin?

I guess I'll begin at the end. The end of Ms Lieske's Author's note, that is. Ms Lieske said that we should "demand a stronger definition of love" and "some sort of objective criteria which love must meet." I'm tempted to say something along the lines of "typical scientist" on the one hand, and "I have that definition/those criteria" on the other. Actually, though the authors failed to mention it, a whole paragraph that I had submitted was left out. And guess which paragraph that happened to be. Here's that paragraph for one to examine under sterile logic:

"This article, for those who care, will be written from a "free love" standpoint, for whatever that means. I guess it's because I've always felt that that's what it means to me: Who can you truly love and be happy with? The ingredients of this are different for everyone. For me, there's a necessary level of comfort and equality that must be there for me to be in love. I have to trust that my partner will never hurt

me and will feel bad and make amends if he/she does so without meaning to and I point it out. By equality, I mean that I can neither feel superior to my partner nor inferior. A relationship must be mutual in the eyes of both people; if there is an imbalance, then the expectations of the more dominant/successful person will take precedence over those of their partner. At first, the other partner might claim to have no expectations and to live for their love, but resentment easily builds and takes over. Even those who model their marriage after the Bible's advice experience this. The Bible gives the man head of the household, but he must support his wife in other ways. As long as each gives as much as he takes, then they're okay."

While it's not that great a paragraph, it makes a lot of my first

article's intent and subsequent ramblings clearer. I do happen to believe that there are "higher criteria" than physical/emotional attraction when you choose a life partner, but I'm hard-pressed to find the words to describe them. I could clumsily summarize by saying "mutuality," which hopefully would knock Ms Lieske's can

special circular saw <sigh>. Excuse me? Does this mean that because Caltech started admitting blacks and women that it should enroll three-year-olds and Cabbage Patch Kids, too, since that is the logical conclusion of such a broadening of admissions standards?

May I take the liberty and answer for Ms Lieske? "No". May I cliché-ize (there should be a verb like that) and say that "too much of a good thing is not good"? In other words, stretching society's protective apron of marriage and acceptance around our gay friends does not mean that the threads will break

and render marriage meaningless. The puppies and canine buddies can still be told to stay out from under the apron. That is, when they ask to get shelter. Which I'm not sure they have. So, I plan on not worrying my liberal little head about it just yet.

One last reassurance. I know that true love is a lot of work (a whole

lot... <sigh>). Anyone who's experienced this would naturally bristle at my striving towards "free love," which makes love sound so tawdry. My intent was to connote a "freer love," as in less bounded. My premise is that this is not mutually exclusive with keeping a high standard for committed relationships. Ms Lieske is correct in pointing out that a truly free love is antithetical to valuable committed relationships.

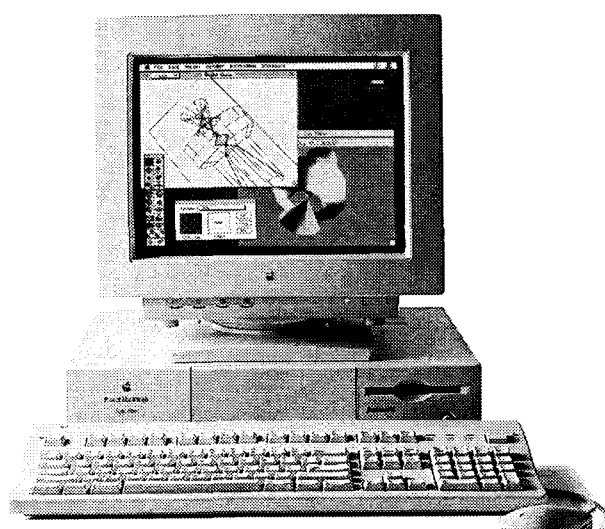
Author's Note: I am not saddened by the necessity, but I do want to make it clear what I had in mind by the Ms Lieske references—that's Ms without a period, by the way. I meant them tongue-in-cheek, to caricature his use of "Ms Brown," which may or may not be proper journalistic style. I am not a Ms Brown. I'm not a Ms anything! I'm Vicki Brown; I have been since I was born and will be until I die—even through marriage. In other words, what seemed to have been meant as a good, pointed, yet stylistically light-hearted article, became insulting with solely the insertion of so many obnoxious Ms Browns. I guess I never really paid that much attention to it—and I am making up for it by paying too much attention now! But from now on, I plan to reference an author first by his full name and subsequently by his last name only. Ah, I should have been an English teacher...

"I do happen to believe that there are 'higher criteria' than physical and emotional attraction when you choose a life partner, but I'm hard-pressed to find the words to describe them."

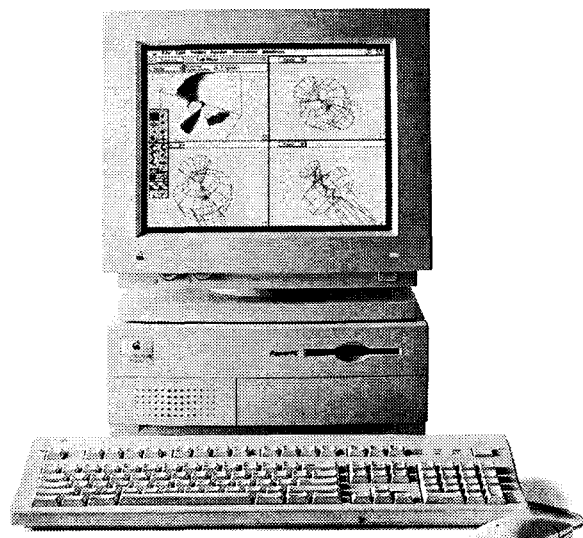
opener out of the running.

One thing that I must pick on, and I'll do it on logical terms now, is how Ms Lieske said that opening the bounds of committed love to persons of the same sex reaches the "logical conclusion" of opening it to other species and objects, such as can openers, though my preference would be for a certain

Introducing the fastest ways to get through college.



Power Macintosh™ 6100/60 8/160, Apple® Color Plus 14" Display, Apple Extended Keyboard II and mouse.



Power Macintosh™ 7100/66 8/250, Macintosh® Color Display, Apple® Extended Keyboard II and mouse.

Speed. Power. And more speed. That's what the new Power Macintosh™ is all about. It's a Macintosh® with PowerPC™ technology. Which makes it an incredibly fast personal computer. And the possibilities are endless. Because now you'll have the power you need for high-performance applications

The new Power Macintosh from Apple.

like statistical analysis, multimedia, 3-D modeling and much more. So, what are you waiting for? Visit your Apple Campus Reseller for more information and see for yourself. Now that Power Macintosh is here, college may never be the same.



For further information visit the
Campus Computing Organization
Jorgensen Building 158-79 • 356-4612

IHC Minutes

FROM PAGE 6

son canceling fill the space does not help the waiting list at all.

James thought the change in the policy was spurred by money concerns.

Tom says that first he wants to help the waiting list and a close second is to minimize their income losses.

James says that the replacement policy causes room pick problems because a vacating senior can pull a frosh into a premium room.

Stan says that a student that picks a single can pull in a frosh that is below others in the house room pick procedures. This would be a way for people to circumvent house picks. People don't want to be responsible for filling off-campus room when they vacated an on-campus room that was filled by someone moving on.

Mike Pawson thinks that changing the contract isn't valid if a student who has already signed it doesn't agree to the changes.

Kevin states again that this is not a problem for people picking off-

campus rooms.

Tom wants to be fair to everyone.

Mike Pawson thinks the new policy is ambiguous if people tell housing by the deadline that they are canceling in the middle of the term.

Tom says that's okay as long as housing is told. That way they know what vacancies they will have.

Biff and Mike both bring up the problem with the summer move out date.

Biff says that there are problems with people without fall housing that are on the waiting list who stay in housing for the summer and athlete move into their room before the move out day. Where do they go?

It is suggested that they live in the Catalinas until an institute space opens.

Tom says that the grads really don't like the undergrads living there, especially for \$2 less a day with the amenities of Residence Life and parties.

John said that undergrads don't like living like this in the Catalinas because they can't unpack because they may move any day.

Tom says that first housing has

to address the difference in cost.

Biff brings the topic back to penalty charges. Should everyone have the same penalty and housing goes by the net contract gains? After Sept. 1 people canceling are liable for the entire term.

John still thinks first and last month rent policy is a good idea.

It is mentioned that first and last month rent will almost cover the entire term as it is.

Kevin says to use Oct. 1 as deadline.

Tom says they were planning on using the Sept. 1 deadline and will wait until Oct. 1 to charge.

Mike Pawson brings up the point that housing has the incentive to fill rooms after Sept. 1 vacancies that were declared before Sept. 1.

Tom says that housing wants to avoid double charging for a room.

James mentions that people aren't going to know what they will be charged.

Tom and Biff explain that the difference in full and partial fees will work like a refund.

Tom also mentions that people with extreme cases should talk to him. He thinks the clause in the con-

tract mentions "compelling and unanticipated financial or medical problems" as grounds for canceling with no penalties.

John asks Tom if he has created a list of apartments that will rent for the fall and not charge summer rent for people that are going home.

Tom is talking to a property management company about it now. He also says that they can mail the lists, too.

James asks what the policy is for dogs in off-campus housing.

Tom is open to it on a case by case basis. If there is not a fenced in area a tether or some other way of letting the dog move around without escaping would be okay

2:40 p.m. Tom and Biff leave.

Obscene Mailings

Stan wants to talk about the Dean and mass mailings. Mikey says Stan's referring to Page House. The "obscene" mailing that was complained about by the mail room was a house list mailed to some Page House members. The Page secretary is talking to the mailing people. Supposedly you have to go through the

Dean to get a mass mailing approved. The problem is that no one knows the exact definition (exact numbers) of a mass mailing. Mikey would like this clarified.

Jim mentions that Dabney was told they needed the registrar's permission to mail to all the undergrads.

James questions this since several people besides the mail room have keys to the boxes and use them for mass mailing (e.g. Kim West's Office).

Stan is concerned that the mail room is reading mail that goes through there.

Mikey says that when his secretary talked to the Dean the staple was broken and the mail was open and the "offensive" material was several pages in so it looks like they opened it as opposed to reading through the paper or the corner flipping up.

Stan wants a copy of the mailing.

Mikey says that he was told that inter campus mail isn't necessarily confidential.

Dennis argues that the mail room used its Postal Office status to explain why they could not deliver the Tobsene' mail (unless it was in a sealed envelope labeled obscene) in the first place. They can't have it both ways.

Kevin says that if they want to use the Postal Office rules they can't open the mail.

Stan is scheduling an appointment to talk to the Dean about this.

Frosh Camp

Stan brings up the issue that (strangely) many more people than originally decided (by the Dean and the IHC) have "popped up" on the Frosh Camp list.

Since the IHC was told at the selection meeting that there was a money crunch so there could be no repeats and very few spots why have more people been added?

John is concerned by the factor that the Dean did not want to take people who had gone before. He thinks this should be published on the application so people don't bother applying.

James asks is they should also put "we're not taking males either."

James states that Dean's office was really upset that Blacker picked all males to represent the house.

Tell the houses to spread their selections across gender and ethnicity.

Student-Faculty Committee Appointments

Stan wants to notify people officially by mail of their appointments, but that with Ditch Day he has not had time, but that he did post the selections on the net.

Stan is still trying to determine the number of members of UASH, Academic Policies, and the Athletics and Physical Education Committees, so these people have not been informed as of yet.

2:50 p.m. Dave Derkits leaves.

Student Affairs

A committee has been appointed to review all aspects of Student Affairs and Stan has been asked to get comments from students and find people who would like to talk to this committee concerning good and bad things with Student Affairs.

Stan wants to know what topics the IHC thinks needs to be ad-

Hewlett-Packard Workstations
for
California Institute
of Technology

SERIOUS PERFORMANCE!
SERIOUS PRICES!

New 712/60 and 712/80 Available Now!



UTILIZE YOUR FREE HP EDUCATION SOFTWARE SITE LICENSE!

Hewlett-Packard Series 700 Workstations: Technical Summary and Pricing

Performance:	712/60	712/80	715/75	735/125
MFLOPS (DP)	12.8	30.6	31	57
SPEC INT92	58.1	84.3	80.3	135
SPEC FP92	79	122.3	126.8	201
Memory Capacity	128MB	128MB	256MB	400MB
Xmark/X11	5.9/1.1M	8.2/1.45M	7.7/1M	9.4/1.2M

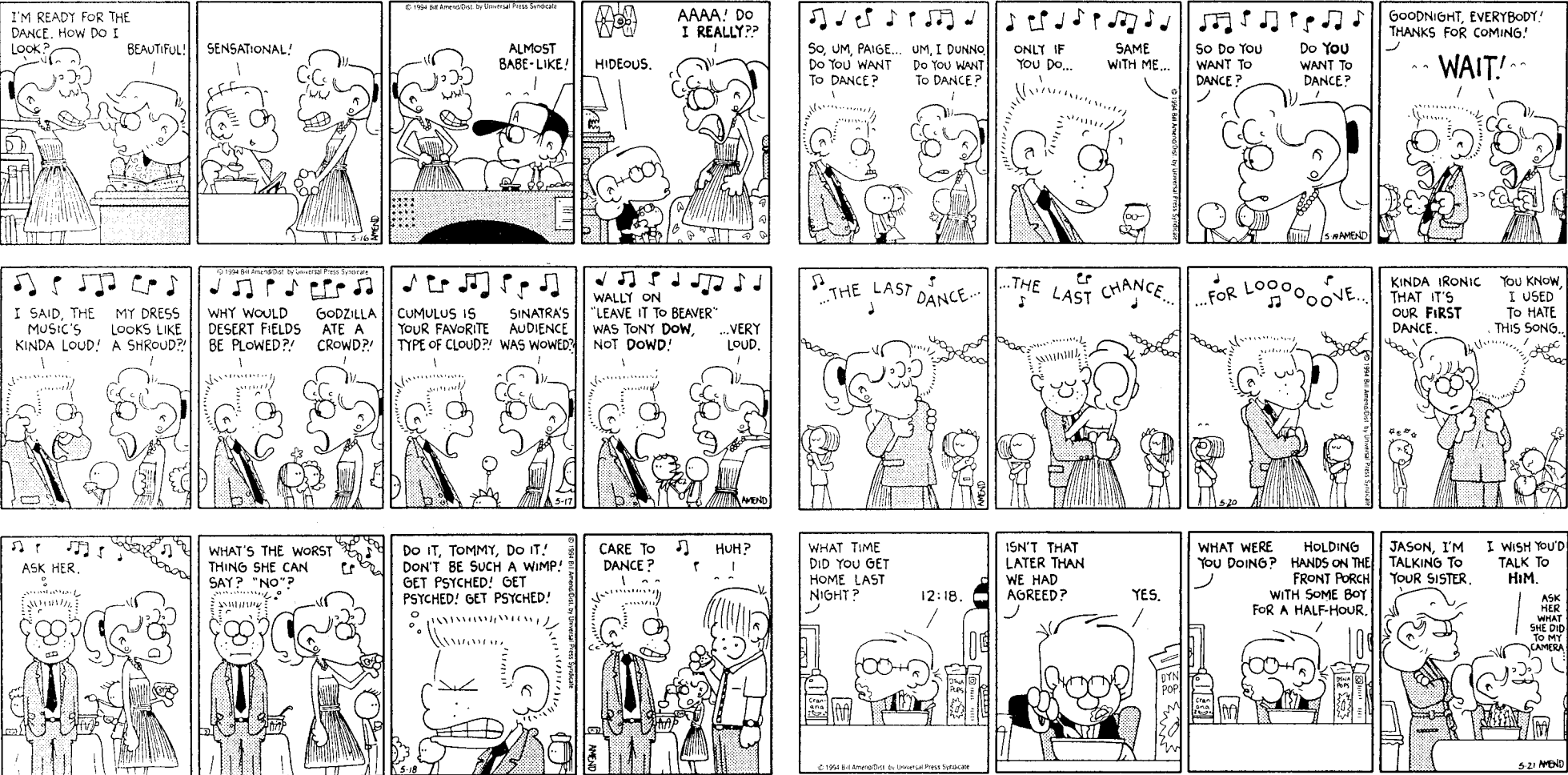
Special.....Educational Pricing w/Color Monitor and Keyboard:

	Net	Net	Net	Net
15", 260MB Disc, 16MB Ram	\$ 2,989	n/a	n/a	n/a
17", 260MB Disc, 16MB Ram	\$ 3,753	\$ 5,735	n/a	n/a
17", 1GB Disc, 32MB Ram	\$ 5,624	\$ 7,607	n/a	n/a
17" Hi-Res, 1GB Disc, 32MB Ram	\$ 5,885	\$ 7,867	n/a	n/a
19", 1GB Disc, 32MB Ram	\$ 6,925	\$ 8,907	\$ 8,583	\$19,552

Up to 20% additional discount with eligible trade-in.
All prices subject to change.
For ordering information, call Linda Thornton (714) 758-5759
E-Mail: linda_thornton@hpatc3.desk.hp.com

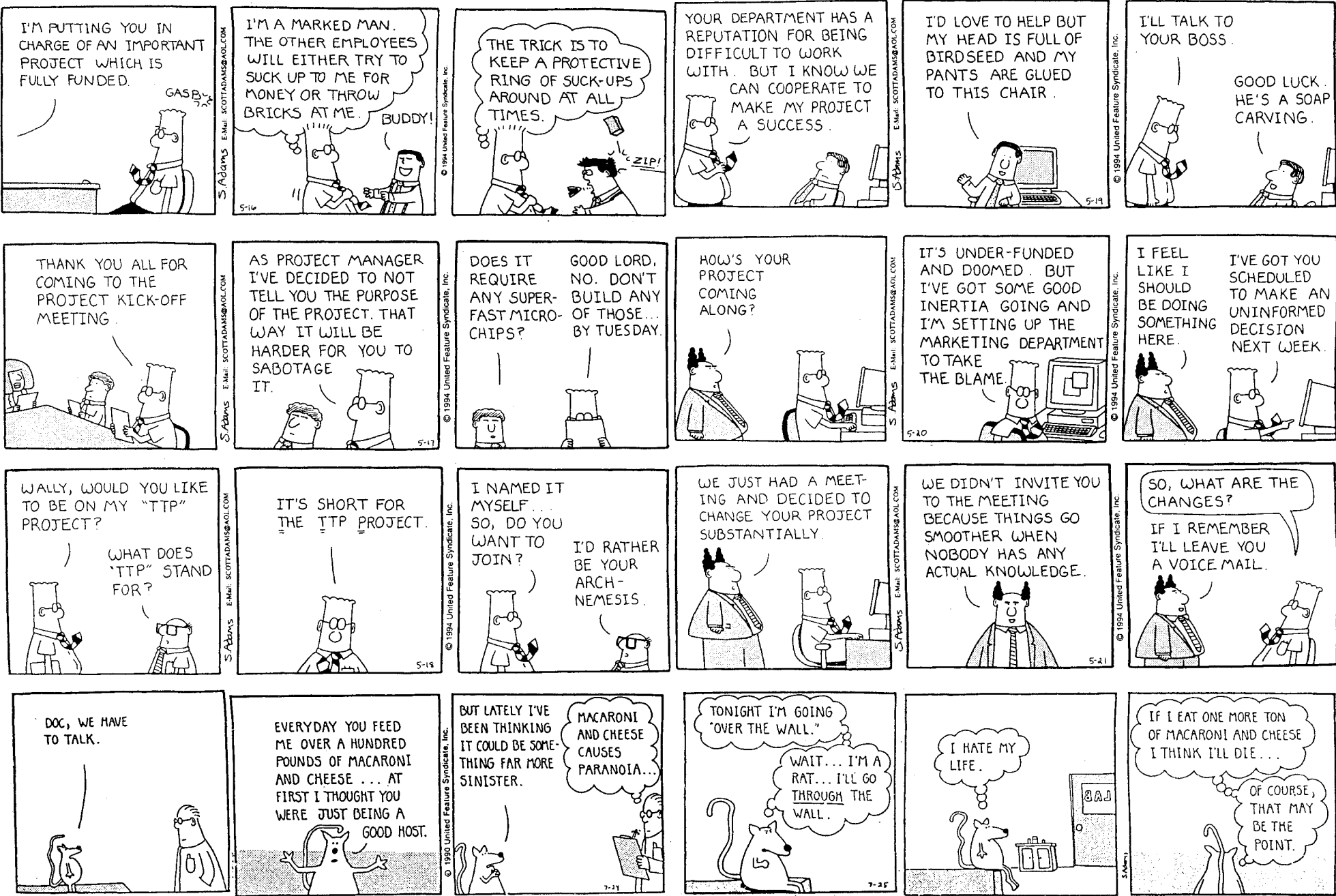
It's Back to the Dance with FoxTrot

by Bill Amend



This Week: Dilbert Takes Charge

by Scott Adams



White Wins in Wiverside

by Michael Kantner

In Caltech's first intercollegiate mountain bike race, Jody White won the Women's B race and Michael Kantner placed fifth in the Men's B. It was Caltech's first victory in any cycling event. None of Caltech's competitors had ever raced off-road before, so the results were even more surprising.

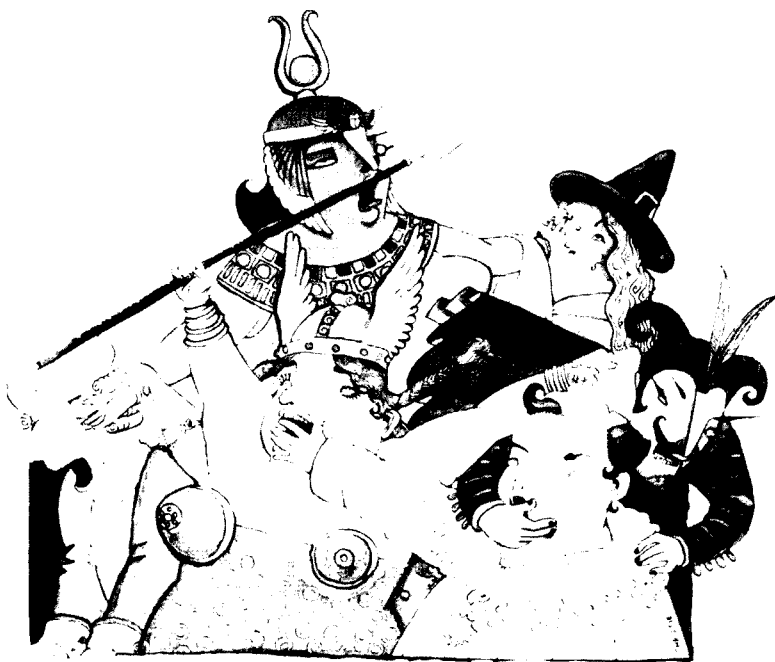
The women raced early in the morning, before the fog had cleared. Visibility was not too bad for the racers, but spectators could see very little. The Women's B race was about five miles long. The race started with a one-mile short loop followed by a four-mile lap. After Jody finished the short loop, she was not seen again until she finished in first place, about 45 seconds ahead of her nearest competitor. It was Caltech Velo's best placing ever.

The men's races started just as the fog was lifting. Marcus Chen, David Krum, and Brett Warneke raced in the C category. Michael and Scott May competed in the B category. In the C race, Caltech's luck was bad. David crashed during the short loop, ending his race quickly. Brett finished most of the first of two laps before his rear derailleur broke. Marcus' face planted near the end of the race while in the top ten. He got back on the bike and finished 22nd, with a head ache.

Caltech did slightly better in the men's B race. During the first short loop, Scott was relaxing on the initial climb. However, he crashed on the downhill and had to drop out of the race. After the first of three laps, it was clear the Michael was racing

for fourth place. The front three people had sizable leads and were stronger than the rest of the field. During the climb at the beginning of the second of three laps, Michael moved from eighth to seventh place, dropping a Claremont rider and nearly catching a UCSB and a UCR rider. However, the other riders had suspension forks—Michael did not—and quickly made up time on the descent. By the third lap, it was clear that Michael had to make the other riders blow up on the climb. The Claremont rider and the UCSB rider both exploded during the climb and lost minutes to Michael. The UCR rider's chain broke, so he had to drop out. Michael was in fifth and the fourth place rider was in sight. By the top of the hill, Michael had nearly caught him. However, Michael lost ground on the descent. The fourth place rider, with a suspension fork, rode away from Michael. Additionally, Michael's front brake became loose during the final descent. After realizing that he could not move into fourth place, Michael finished the descent cautiously. It was clear that as long as he finished, he would take fifth. At the end of the race, Michael was about a minute behind fourth place, and a minute ahead of sixth.

At the end of the day, Caltech had two good placings and some broken equipment. Fortunately, the only injuries were a few bruises and cuts. The team is looking forward to more off-road races this fall. Unfortunately, team results are not available.



The Caltech Men's and Women's Glee Clubs

present

A Night at the Opera

featuring

Gilbert & Sullivan's
"Trial by Jury"
& favorite opera choruses

Friday, May 20 & Saturday, May 21
8:00 PM in Caltech's Dabney Lounge

General Admission \$7.00
Early response recommended due to limited seating.

Caltech Student Admission \$5.00

Caltech Ticket Office
332 S. Michigan Avenue
Pasadena, California 91125
(818) 395-4652
or (800) 423-8849
or fax (818) 577-0130

Boffo Bonecrusher Broomball XV

by Sam Webb

Yep, once again it's time for the Boffo Bonecrusher Broomball Tournament, wrapping up our fifth year of broomball mania. All of the action will begin at the Pasadena Ice Arena at 12:15 a.m. Saturday night. As always, it promises to be a fun-filled activity, an event for the whole family. Guaranteed to be packed full of excitement and hard-hitting broomball. All teams must have their roster submitted and their team paid in full by Friday. Even if you're not playing, it's a great sport to watch. And yes, for those hungry folks, we will have food.

TEAMS

- 1 Blacker Team
- 2 Damn Scurves
- 3 Plaid Thunder Penguins
- 4 Ruddock Hyper Frosh
- 5 Thundering Herd
- 6 Violent Femmes
- 7 Team Not Nick
- 8 Brains Not Bolts

SCHEDULE

12:15 to 12:35	1 vs. 8
12:40 to 1:00	3 vs. 3
1:05 to 1:25	5 vs. 7
1:30 to 1:50	6 vs. 1
1:55 to 2:15	2 vs. 6
2:20 to 2:40	7 vs. 4
2:45 to 3:05	8 vs. 2
3:10 to 3:30	4 vs. 6

FINALS

3:35 to 3:55
4:00 to 4:20
4:25 to 4:45

Bridge Without Sam

Three-Way Finesse?

by Jeff Goldsmith

Some suit combinations, AJx opposite K10x, for example, tend to allow for a guess as to which way to finesse for a missing honor. These are called "Two-way finesses." Every once in a while, we have to play these suits to take the finesse in each way. For the first time, I found a suit in which I had to take a finesse one way then the other, and then back again the first way!

Playing in a sectional pairs event with an intermediate partner, I was fourth to speak and picked up

♠A10 ♥K1053 ♦AQJ1064 ♣3

Dealer, on my left, passed, and partner opened 3NT. We were playing 3NT opening bids show a solid seven-card minor with no side Aces or Kings. RHO passed; I did too, somewhat reluctantly. 6♣ could be cold, or it could be down one off the top. Notrump rates to be our best game, but playing it from partner's hand is not good for us. LHO reopened with a confident 4♥, posing me with a severe bidding problem.

I think it is best to double, but LHO looked pretty confident about his bid. It seems as if he's been sandbagging. If I don't double, what shall I do? 4NT seems wrong; if it makes, so will 6♣ from my side, assuming they don't get a ruff. 5♣ is out of the question; we'll get a bad matchpoint score regardless of whether or not it makes. Finally, I decide that one does not win matchpoint events by sitting by idly, so I leap to 6♣, knowing that my bidding was inconsistent, but amusing, nonetheless.

NORTH

♠ 5
♥ 94
♦ 532
♣ AKQJ976



SOUTH (Me)

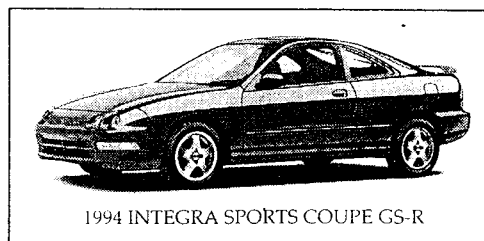
♠ A10
♥ K1053
♦ AQJ1064
♣ 3

I get the lead of a small spade to the King and Ace and draw trump, West having a singleton. From hand, I pitch two hearts and a diamond and West pitches three hearts, echoing. Crossing my fingers, I take the diamond finesse. It holds and West shows out on the first round! What's going on here? West has twelve major suit cards and passed in first chair? He must have 5-7-0-1 or else he might've tried bidding spades at some point. That means that East is void in hearts and I can lose a trick to him safely. Since I need the diamond suit, but have no more entries to my hand, I must take the "ruffing finesse" in diamonds, floating a diamond honor (not the Ace, of course) around to East. He considers this for a moment — and plays low.

Joyful! This finesse worked in both directions. I cannot afford to take it again in this direction, so I ruff a spade and take it again back in the original direction. The ♦A gives me a pitch for one of my losing hearts, so I make exactly six.

Acura of Pasadena

Attention Graduates!



1994 INTEGRA SPORTS COUPE GS-R

Reward Yourself!!

Let us know that you're a Caltech student for remarkable savings on all our new and used vehicles!

Contact John Zachman at
Acura of Pasadena
1285 E. Colorado Blvd. Pasadena 91106
818-792-7979



by Neil Jones

5/11 4:30 p.m. An unemployed man was found placing flyers for a local auto-detailing company on cars. When questioned, he stated that he did not know the person that he worked for since he usually waits for work on a street corner. However, the company advertising was California Auto Detailing, which is located on Colorado Boulevard. The man was advised that he was trespassing, and then left campus.

5/14-5/16 The Caltech Children's Center has recently been suffering a bout of vandalism by an unknown individual. A worker for the Children's Center stated that she was last in the building on Saturday, May 14, and everything was in proper order, but when she arrived at the Center on the following Monday, May 16, the toys had been strewn about the playground, bandages had been thrown on the ground, and various storage cabinets had been opened. Unfortunately, there are no suspects.

5/17 The grand finale of a Ditch Day stack involved throwing a dummy off of the roof of Baxter into the Court of Man. However, when the participants went down to retrieve it, it was missing. The stackers would like to have the dummy back since it contained a pillow, a volleyball, and a shirt and jeans. If anyone picked it up, the stackers would like it returned to Page House, Room 238.

5/17 3:30 p.m. An unnamed undergraduate "borrowed" a Public Events electric cart. The cart was seen swerving recklessly around Beckman Auditorium, but when security arrived, the cart was gone. About an hour later, the cart was again seen on the Holliston sidewalk near Physical Plant. When the student(s) in the cart were accosted by Security, they jumped from the cart and fled in the nearest possible direction, undergraduate houses. The cart's driver was eventually stopped and was suspected to have consumed some alcoholic BEVERage, which would explain the reckless driving. No real information was gathered, and the whole incident might possibly be related to that infamous day at Caltech: D-day. With the Dean notified, the whole thing was swept under the carpet, perhaps as just another Ditch Day stack. This goes to show that Caltech Security is in need of more fleet-footed officers.

YNEWS

by Topher Hunter

Well, we've had a few very busy weeks at the Y, so we're going to take one off before we begin our end-of-year fun. But don't think we're slacking off, though, 'cause we've still got Boffo Bonecrusher Broomball this Saturday night at 12:15 a.m. I'd give you a schedule if I had one, but they don't tell me anything around here. Call Chris "The All-Knowing Beaver" Sundberg at x6164 for information.

As for the future, finals aren't far off, and that means Decompression! Sign-ups will be going around the houses soon. Remember: the first fifty volunteers get a free shirt.

In addition, it's time to start thinking about the Y Hike, folks. This year's hike will be going to the area around Devil's Postpile National Monument. Groups varying from mellow to strenuous will be available, so sign up now. What better way to spend the last week of break than in the mountains with a couple of your closest friends: marmots and mosquitoes.

Spring Garden Chinese Restaurant

Mandarin & Szechwan Cuisine—Best in Town!

LUNCH & DINNER



Lunch Special
Monday–Friday, 11:30–2:30 p.m.

5% discount with Caltech ID
CATERING & FOOD TO GO
Beer • Wine • Banquets
AMPLE FREE PARKING

187 N. Sierra Madre Blvd., Pasadena,
CA 91107

(818) 796-2531

LAEMMLE THEATRES

ESQUIRE

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

Mia Farrow
Joan Plowright
Natasha Richardson

Widow's Peak

Daily 4:30, 7:00, 9:30 p.m.
Sat–Sun Bargain Matinee 2:00 p.m.

COLORADO

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

Pedro Almodóvar's

KIKA

Daily 5:00, 7:30, 10:00 p.m.
Sat–Sun Bargain Matinee 2:30 p.m.

60% of you needed to use this coupon four weeks ago.

That's because 60% of you aren't changing your oil every 3 months or 3,000 miles. If you're a member of this unlucky majority, consider this: The grime from all those miles becomes saturated in your car's oil, leading to irreparable damage to your engine. So get your oil changed with Quaker State motor oil at a Minit-Lube near you. Because this is one majority you don't want to be a part of.

\$4 OFF

\$4 off our full-service oil change. This offer good at participating locations. Not valid with any other offer or coupon. Coupon expires 6/20/94.

QUAKER STATE
minit-lube

Every 3 months or 3000 miles.™

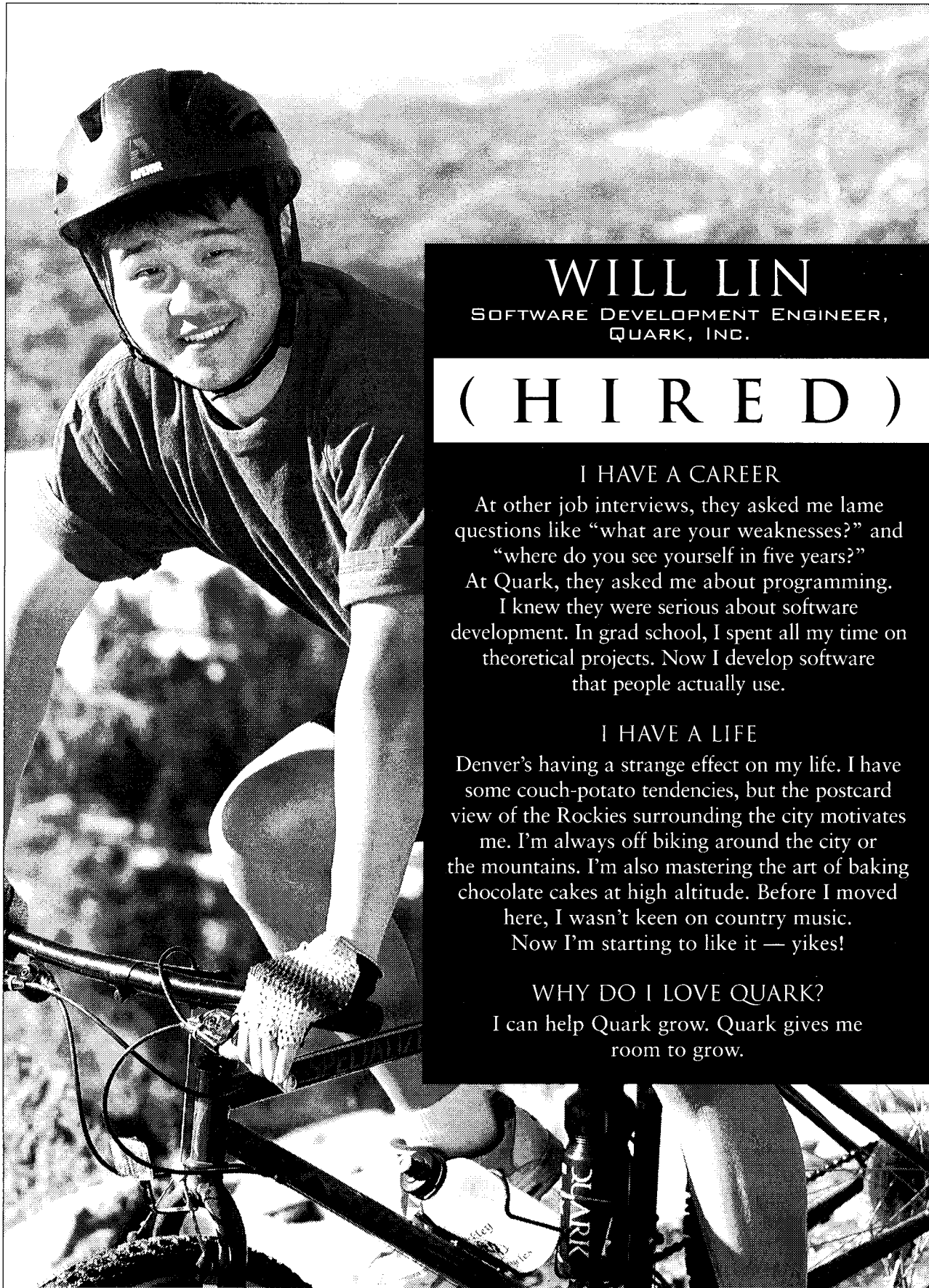
We fill your car with Quaker State at these locations:

PASADENA 1603 E. Colorado Blvd. 449-4396
(across from PCC)

ROSEMEAD 9655 Valley Blvd. 350-5794
(at Temple City Blvd.)

Se Habla Español





WILL LIN

SOFTWARE DEVELOPMENT ENGINEER,
QUARK, INC.

(H I R E D)

I HAVE A CAREER

At other job interviews, they asked me lame questions like "what are your weaknesses?" and "where do you see yourself in five years?"

At Quark, they asked me about programming.

I knew they were serious about software development. In grad school, I spent all my time on theoretical projects. Now I develop software that people actually use.

I HAVE A LIFE

Denver's having a strange effect on my life. I have some couch-potato tendencies, but the postcard view of the Rockies surrounding the city motivates me. I'm always off biking around the city or the mountains. I'm also mastering the art of baking chocolate cakes at high altitude. Before I moved here, I wasn't keen on country music. Now I'm starting to like it — yikes!

WHY DO I LOVE QUARK?

I can help Quark grow. Quark gives me room to grow.

QUARK IS NOT JUST GROWING,

WE'RE EXPLODING

HIRING!

Quark is the international leader in electronic publishing software and related technologies. Our innovative products have set a new standard of excellence for those with ideas to share. Quark's vision is to provide publishing solutions designed to convey ideas — around the globe or around the corner.

With tremendous growth in the last year, and more expected in 1994, Quark is not merely bucking economic trends; it is defining them. Now, Quark is ready to seize new opportunities as it links a promising future to a proven, 13-year track record.

RESEARCH AND DEVELOPMENT POSITIONS

What's it like working in R&D at Quark? Intense, wild, free. Quark is an anomaly in the software industry — because we don't believe in limiting people. Everyone expresses their ideas, develops the software at every level, explores new technologies, and takes on challenging responsibilities. And, when it's time to unwind, everyone tosses the frisbee around the cubes and "researches" flight simulators.

Our engineers design and develop leading-edge, multilingual software for the electronic publishing industry. They combine innovative programming skills with creative interface design abilities. Quark products are customer-driven — we listen to our users and develop features that make sense to them. We also anticipate our users' future needs and provide vital new technologies to meet those needs.

R&D is divided into small, focused teams that allow engineers to direct and take responsibility for their assignments. The project leaders and managers are engineers — they actually write software in addition to providing leadership and focus to their teams.

Positions include:

PROJECT LEADERS

Responsibilities: Direct a team of engineers in the development of a specific product. Combine leadership abilities with programming and user interface design skills.

Qualifications: Strong background in leading all phases of software development projects. Expertise in "C" is preferred.

INTERNATIONAL SOFTWARE DEVELOPMENT ENGINEERS

Responsibilities: Design and develop software tailored to the international publishing market.

Qualifications: Creative programming skills in "C." Knowledge of user interface design or networking is beneficial. We have an immediate need for engineers fluent in Japanese, Chinese, Korean, Hebrew, Arabic, and Farsi; engineers fluent in other languages are also encouraged to apply.

SOFTWARE DEVELOPMENT ENGINEERS

Responsibilities: Design and develop leading-edge multilingual software for the publishing industry.

Qualifications: Creative "C" programming skills on Microsoft Windows, Macintosh, or Power Macintosh. Knowledge of user interface design or networking is beneficial.

ADDITIONAL OPPORTUNITIES

SOFTWARE SUPPORT TECHNICIANS

Responsibilities: Provide telephone, fax, or online support to Macintosh and Windows customers experiencing technical production problems.

Qualifications: Proficiency with Macintosh or Windows. Experience in an electronic publishing or printing environment. Excellent written and oral communication skills; troubleshooting experience.

TECHNICAL WRITERS

Responsibilities: Write and edit software documentation, programming documentation, "help" files, and technical newsletter articles for electronic publishing software. Write and coordinate other projects as assigned.

Qualifications: Bachelor's in Technical Communication, English, or related field, and proficiency with Macintosh or Windows. Some positions require a degree in Computer Science.

TRANSLATORS

Responsibilities: Progress from proofreading, to editing, to translating software documentation and marketing materials. Develop expertise in electronic publishing. These positions are located in Denver.

Qualifications: Excellent grammar, spelling, and writing skills in a native language other than English. Computer literacy is required. We have an immediate need for a Swedish translator.

As Quark continues to grow, we will be hiring translators fluent in Danish, Dutch, Finnish, French, German, Greek, Italian, Norwegian, Spanish, Swiss-German, and many other languages.

DISCOVER DENVER

So, who lives in Denver? Cowboys and skiers, right? Sure, and mountain bikers, musicians, runners, artists, socialites, and everyone else. Denver has it all. You can play pool, drink at microbreweries, listen to jazz, slam espressos, and dance all night downtown. In Denver, you can ride your bike to work, eat lunch in the park, and attend the symphony at night. Athletes and fans have it made with professional football and basketball, major league baseball, and recreational sports teams.

The sun shines more than 300 days each year in Denver, yet the weather's always changing. In this refreshing atmosphere, a snowy Friday can lead to a balmy Sunday. On the weekends, get away to the Rocky Mountains or stay in the city and enjoy the parks, museums, restaurants, and the best shopping in the region. With its combination of urban, cultural, and recreational activities, Denver's diversity is ideal — for everyone.

EXPLORE THE POSSIBILITIES

Quark provides a creative work atmosphere and a comprehensive benefits package, including medical, dental, and life insurance, a very generous 401(k) plan, and tuition reimbursement. For consideration, please send your resume to:

Quark, Inc.
Attention: Recruiting, Department 1005
1800 Grant Street
Denver, CO 80203

Quark is committed to providing equal opportunity for all employees and applicants regardless of race, color, national origin, disability, religion, creed, sexual orientation, age, or gender.

QUARK

Almost a Billion Cooks Don't Eat Frozen Goods:

All Because of Cookie Dough in Edible Foods

by Wei-Hwa Huang

So, what's so special about today's title? Why, it's a capitalized pangrammatic phrase. See today's contest.

Results and Answers

Cross-Number Puzzle

Last week's printed solution contained an error. The actual solution is:

1	9	6		
7	3	4	4	1
2	2		9	1
9	8	1	1	0
		6	3	5

Thanks for all who wrote in!

The Puzzle Universe: Part II

Many nice long solutions were submitted. The \$10 check again goes to Glen Herrmannsfeldt who gave sufficient solutions to all eight problems. Here are the best ones for each puzzle in my opinion (the unlabeled ones come from different sources):

1. Doughnut Hole

Let's start with a simple problem. A metal torus is heated. Does the hole get larger or smaller? Why? A: Assuming the material is isotropic, the hole will enlarge proportionally. While the material will expand toward the center, the dominant effect is the expansion of the circumference, which enlarges the hole. [Glen Herrmannsfeldt]

This puzzle can be made more dramatic by using a metal ball that doesn't fit through the cool hole that will go through the hot hole. This is actually an experiment found in elementary school textbooks.

2. Balloon Ride

The Jones family is leaving the parking lot of Disneyland, and little Rudie is holding a helium balloon in the back seat so that the balloon is going straight up, not touching the ceiling. As the car suddenly accelerates forward, what happens to the balloon? Does it matter if the windows are open?

A: When the car accelerates forward, the air inside the car, which has more inertia than the balloon, rushes to the back, making the balloon go forward! If the windows are open, the potential turbulence makes the problem much less predictable.

This problem was answered incorrectly by a few people.

3. The Centrifuge

Most biologists and quite a few chemists have used centrifuges. All of these people know that it is never a good idea to put just one sample tube into the centrifuge because it

creates an imbalance when the centrifuge is spinning (sort of like an imbalance washing machine, only stronger). However, if we put two tubes in, we could put them opposite each other, allowing them to balance. Suppose we have a twelve-space centrifuge. For what number of tubes can we find an arrangement to balance the centrifuge, and what are these arrangements?

A: For 2, 3, 4, or 6 tubes, you can easily space them evenly. Most people noticed that the complement of any stable position (replacing tubes with holes and holes with tubes) was also stable, solving the problem for 10, 9, or 8 tubes also. Additionally, 11 is impossible since otherwise its complement with one tube would be stable, which is impossible. This leaves only 5 and 7, and some readers said that this was impossible. Actually, 5 can be done by superimposing solutions for 2 and 3, and 7 is just the complement of that.

4. Drop the Bucket

We all know wood floats in water (well, most wood). Let's say we have a piece of wood in a bucket of water that's trying to float, but held just below the water's surface by a spring. Drop the bucket from a large height. What happens?

A: No, I didn't mean what happens when it hits the ground. That's stupid. The other people replied with the correct answer that any buoyant force is canceled, therefore the situation behaves like a simple block on a string problem.

5. CM Cola

Everybody knows that the closer the center of mass of an object is to the ground, the more stable it is likely to be. If we consider a full can of soda pop (assuming it has about the same amount of metal at the top as the amount of metal on the bottom), we can guess that the center of mass is at the center of the can. However, as we start drinking the soda, the center of mass starts to go down. But since the center of mass is back to the center of the can when the soda is gone, there must be a lowest point of the center of mass. How much soda do we need to drink to get a lowest center of mass? What sort of information do we need to know to calculate this? Or is there some simple way to figure this out with an actual can?

A: Most people came up with an equation that depended on the can to drink density ratio that determined the place of lowest CM. However, no one bit on any practical method of finding out. Contact me for details.

6. Mutual Attraction

You are kidnapped by evil psychologists and placed in a room with two identical-looking iron bars. One is magnetized, the other is not. You have no form of metal on your body (they even pulled the gold fillings from your teeth, although gold isn't even attracted by magnets!), and there is no metal you can see in the room either. How can you find out

which bar is which?

A: The intended solution was to position the two bars in the shape of a T. Since no magnet has field lines coming out of its center, this will easily determine which is which. Other proposed solutions included utilization of the earth's magnetic field, which is pretty difficult since the attraction is so slight for a sizable bar. Someone proposed that you should make use of the fact that magnets deflect streams of charged particles, for example urine!

7. Getting Jumpy

If a man can high jump and clear a six-foot bar on Earth, what's the highest bar he might clear if he were on the moon? (This is assuming, of course, that we manage to give him some form of air supply that doesn't hinder his mass.) How about if he were pole vaulting? For a bonus, describe what would happen if we had an entire Olympic Decathlon on the moon.

A: Most people assumed that since the gravity on the moon was 1/6 that

of earth's surface gravity, that the man should jump six times higher — that is, 36 feet. Bzzzt! Although the high jumper has cleared a six-foot bar, he has only elevated his center of mass by about three feet. On the moon, he should be able to elevate his CM by 18 feet — clearing a bar 21 feet tall. Different height estimates give slightly different answers.

8. Slip & Slide

If you were placed in the middle of a giant frictionless surface (say by a helicopter), how would you get off? This problem probably has many solutions; give as many creative ones as you can.

A: All solutions involved some form of expelling matter in a certain direction, both scenic and obscene. Common items were: clothing, breath, and excretion. TFM and Chandler were both mentioned.

Games & Puzzles

This Week's \$10 Contest

Why don't you go Above and Beyond the Call of Duty to give me the longest, sensible, headline you can make that capitalizes the letters of the alphabet in order. If you go past Z, either circle back to A or think of something more ingenious. The longest and most sensible entry will win (credibility is more important than length) ten dollars!

To submit, send your solutions by e-mail only to gp@tech, and how you may be contacted by phone and by mail. Entries must be received by Wednesday, May 25, 8:00 p.m., 1994. You may enter more than once, but entries must be mailed separately. All members of the Caltech/JPL community are eligible, except for me.

ASCIT NEWS

20 May 1994

- See the related article in the Tech for information on the opening of nominations for the junior and senior class officers.
- The office of **Big T Business Manager** is now open for appointment. If you are interested, please sign-up on the east side of Winnett prior to 5:00 PM on Friday 27 May.
- Positions on the SURF Student Advisory Council are still open (sign-ups are on the east side of Winnett). Applicants must either have had a SURF or will have one this summer. The deadline for sign-ups is today, at 5:00 PM.
- **Funding Decisions:**
Broomball - \$350
Entrepreneur Club - \$20
- John White and Brian Katon presented their plan for a new structure for student government. A discussion is currently underway on the newsgroup caltech.ascit.
- This coming week, the BOD will continue to visit the Houses for dinner and after-dinner discussion. Fleming on Monday, Dabney on Thursday. Page may be rescheduled for this week, as it was originally set on Ditch Day.
- Clubs are reminded to pick up their third term funding this term. Contact the ASCIT Treasurer or come to the weekly BOD meeting.
- The IHC has concluded the appointment of student members to the Faculty Committees. Congratulations to those selected.

- President Everhart has created a new committee to address concerns students may have with Student Affairs administrators or policy. If you have concerns, please contact a member of the BOD or a member of the IHC as soon as possible.
- The Special Topics at the last meeting were the ASCIT Donuts and the Election Procedures. It was decided to explore other funding options with respect to the Donuts, but to not rule out any option. Some minor concerns over the election system, including the power of the NO vote and the write-in vote, were discussed. Ways to improve the system may be addressed at the next BOD meeting and may be tried in the Class Officers Election.
- This coming week's Special Topic is the Faculty-Student Committees.
- The Board of Directors meets weekly, every Wednesday, at 7:30 PM in the ASCIT Office, SAC 64. Meetings are open to all members of the Caltech community.
- Please bring 15 copies of handouts to meetings of the Board of Directors.
- Copies of ASCIT BOD Minutes are available by mail or e-mail free of charge on request to students, faculty, and administrators. Requests should be sent to Secretary, ASCIT 64-58 or sec@ascit. The Minutes are available in the House lounges and on caltech.ascit.announce.

the Haircutters

Caltech students —
Save 20% with student ID
on shampoo & style cut

MEN \$16 (regular \$20)
WOMEN \$20 (regular \$25)

(818) 449-1022

(818) 449-6967

1009 E. Colorado Blvd.
Pasadena

Offer expires June 30, 1994



Two-Star Award Winner
by the Southern California
Restaurants Association

2475 EAST COLORADO BLVD., PASADENA
FOR RESERVATIONS: (818) 449-8018

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

MANDARIN CUISINE AND SEAFOOD

LUNCH SPECIAL

Choice of 13 entrees
11:30 a.m. - 3 p.m. from 4⁵⁰

EARLY BIRD DINNER SPECIAL

Choose from 13 items
3-7 p.m. DAILY ONLY 5⁹⁵

CLASSIC DINNERS

Sunday-Thursday 3-10 p.m.
Friday-Saturday 3-10:30 p.m.

Between Altadena Dr. & Sierra Madre Blvd.

CETF News

by Mitra Hartmann and Peter Carlin

Ecology Class

Last week, we tried to do a preliminary survey to determine if there was interest in having an ecology class at Caltech. We asked people who would be interested in taking such a class to send us e-mail. We did not get any responses.

However, we don't know whether this null response reflects a genuine lack of interest in having a course or a lack of enthusiastic CETF column readers. So, if you are *not* interested in having an ecology class on campus, if you think it would be a bad idea or a waste of time, or if could generally care less, please send your opinions to cetfers@cco.caltech.edu.

Good News from the CARB Hearings

On Thursday, May 12, several Caltech students attended the California Air Resources Board (CARB) hearings in downtown Los Angeles. The hearings reviewed the Low-Emission Vehicle and Clean Fuels Regulations approved by CARB in 1990.

These regulations were designed to bring California into compliance with federal and state ambient air quality standards and require automakers to produce cars which meet increasingly stringent emission levels. Specifically, CARB created four new classes of vehicle emissions requirements: transitional low-emission vehicles (TLEVs), low-emission vehicles (LEVs), ultra-low-emission vehicles (ULEVs) and zero-emission vehicles (ZEVs). Fleet average emissions of non-methane organic gases (NMOGs) are required to drop 75% in the next ten years. In 2003, the average new car is required to meet LEV emission standards. In addition, 2% of automobiles sold in 1998 must meet the ZEV standard. This ZEV mandate rises to ten percent by 2003.

The main topic of debate on

Thursday and Friday was the ZEV mandate, which means battery powered electric vehicles in the near future. Testimony from the American Automobile Manufacturers Association (AAMA) urged CARB to remove or at least delay implementation of both the ZEV mandate and NMOG emission requirements. The AAMA argued that ZEV technology is both not commercially viable and not cost effective. The CARB staff countered that the technology is in fact viable, as the 1994 requirements were met; EVs are extremely cost-effective, as measured by cost per pound of reduced emissions; and since the ZEV mandate was adopted in 1990, significant progress in battery technology has been made.

We at CETF are glad to say that, based on the meeting and later reports, it appears likely that CARB will not change the ZEV mandate this year. Contact CETF for more information about low-emission vehicles.

Featured Upcoming Event

Tim Brick, a member of the Board of Directors of the Metropolitan Water District and principal with the Arroyo SECO Council, will discuss the watershed and the plans for restoring the Arroyo in a talk entitled "Hahamonga—Flowing Waters, Fruitful Valley" on Tuesday, May 24, at 7:00 p.m., at The Higher Grounds Coffeehouse, located opposite of the California Pizza Kitchen on North Los Robles. Tim will talk about his collaborative work with the Gabrielino people in the dream of managing the watershed—rather than controlling nature—and restoring the Arroyo.

Please send in your environmental questions, concerns, and comments to: cetfers@cco.caltech.edu, or to CETF, MSC #251-18. CETF meets every Monday at noon in the Judy Library (110 Baxter Hall). All are welcome!



West Bank

Secretary of State Warren Christopher visited a town in the West Bank that Israeli soldiers have just recently withdrawn from. Christopher convened with Palestinian leaders in the police headquarters where the Israelis were once stationed.

Haiti

A World War II vintage anti-aircraft machine gun and a worn armored personal carrier are the instruments the Haitian army claims will prevent any U.S. armed intervention.

Caucasus

A peace treaty between Armenia and Azerbaijan over Nagorno-Karabakh was delayed due to Azerbaijan's refusal to sign a cease-fire agreement.

Dominican Republic

In the presidential elections, "long-time ruler" Joaquin Balaguer maintains a precarious lead. Supporters of his opposition accused election officials of barring many people from voting and tampering with ballots.

United States

U.N. ambassador Madeline Albright supported the United States' advice to hold off on committing any more peace-keeping troops to the stricken country of Rwanda. The U.N. Security Council has agreed to send in

5,500 more troops but will delay in sending them in light of the United States' objections and insistence that more care be put into organization before more troops are sent. The delay did upset some representatives of member countries. One such dissenter was the New Zealand Ambassador.

South Africa

The new government is intensifying efforts to crack down on right-wing extremists. They are now actively searching for twenty-one members of the Afrikaner Resistance Movement, the group responsible for a series of bombs before the first all-race elections. This crack down will cripple right-wing extremists' attempts to undermine the new multi-race government.

Procedure for the Filling the Vacant Presidency

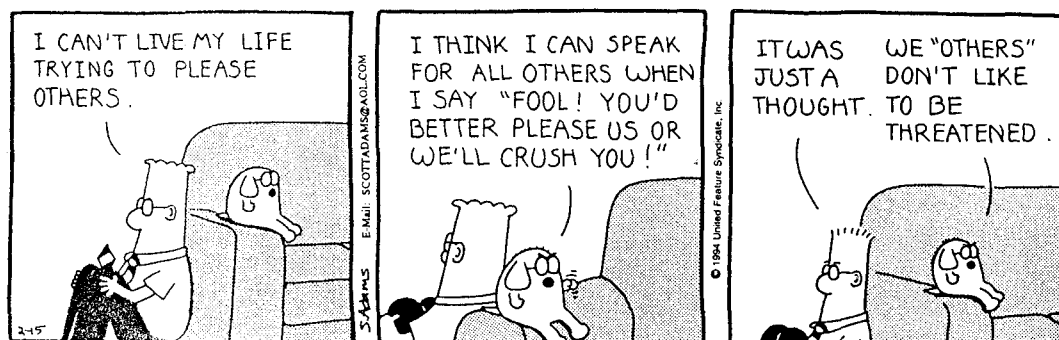
by David R. Derkits

The ASCIT President has resigned her office, effective on 19 May. In accordance with the bylaws, nominations for the office of President shall open on Wednesday 25 May 1994 at 8:00 AM and shall close the following Tuesday at 5:00 PM. The election for the new President will be held concurrently with the Class Officers Election on Friday 3 June. The nomination sheet will be posted on

the east side of Winnett; if you are interested in this office, please print your name and follow the directions. Candidates are strongly encouraged to submit campaign statements to the Tech; statements are due by 5:00 PM on Wednesday 1 June. Questions should be directed to Cedric Hobbs, the Election Chairman, at cedricit@uugs or 568-0001.

The ASCIT Executive Com-

mittee will meet early next week to appoint an Interim President, who will serve until the installation of the newly-elected President. Katy Sippel is the Chairman of the Executive Committee, and she can be reached at x1102. General comments, concerns, or questions may be directed to the ASCIT Secretary, David Derkits (x1402 or sec@ascit), or to another member of the BOD.



YESS '94

SUMMER MATH TEACHING POSITION

Teaching position in the Young Engineering and Science Scholars (YESS) Program for Calculus is available for this summer. YESS, a residential program that introduces high school students to the joys of intensive scientific investigation, runs from July 5th to August 5th. Job entails teaching calculus to 40 students for 2.5 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 Vice President for Student Affairs Office, and are due on Tuesday, May 31st.

For more information, contact Athena at x3180.

OLD YMCA
BARBERSHOP & STYLING SALON
HAIRCUT \$5.00
FOR ALL CALTECH STUDENTS,
FACULTY, AND STAFF—MEN AND
WOMEN
235 E. HOLLY 578-9819

Paris
NON-STOP
\$325*

London	\$299
Amsterdam	\$315
Milan	\$380
Sao Paulo	\$375
Tel Aviv	\$479

*Fares are each way from Los Angeles based on a roundtrip purchase. Restrictions apply and taxes not included. Call for other worldwide destinations.

Council Travel
Open Saturdays 10am - 2pm
1093 Buxton Ave., Suite 220
Los Angeles, CA 90024
1-818-905-5777
Eurailpasses issued on-the-spot!

Entrepreneur Club Takes Off!

by Jessica Chang and Devabhaktuni Srikrishna

On May 12, the newly formed Entrepreneur Club presented its first social welcoming all members of the Caltech Community to attend. Over ninety people came and listened to Professor John D. Baldeschwieler share some of the lessons he learned while starting his biochemical company Vestar, Inc. He gave an interesting slide presentation about the numerous aspects of starting a business and entertained the audience with funny

WHAT'S AT THE OTHER END OF YOUR MODEM?

STREAMWORK

So.Cals Best Online service

- ✓ Mouse driven Graphical Interface BBS
- ✓ 256 color online viewing
- ✓ Local to Pasadena Areas
- ✓ Computer support and repair offered
- ✓ ONLINE CHAT • FORUMS • FILE AREAS

DISCOVER THE WORLD OF CYBERSPACE
(818) 447-9850 BBS • (818) 447-2014 VOICE

anecdotes. There was a question and answer session at the end where people got the opportunity to ask Professor Baldeschwieler about his company and its current projects. The event concluded with lots of refreshments.

The Entrepreneur Club had its first meeting three weeks ago and currently has over 130 members. There is another social at 4:30 p.m. on Tuesday, May 24, at Baxter Lecture Hall. Professor of Electrical Engineering Chuck Seitz will be speaking on "Early Experiences and Lessons in a High-Tech Startup." Everyone is welcome to attend.

Minutes

FROM PAGE 8
dressed. The topics that were mentioned:
Grievance Committee, or lack thereof
Admissions
Health Center
Women's Center
Dean/Gary Lorden
Registrar
DRL/MOSH
House RAs
Career Development Center
Graduation Speakers, selection thereof
Housing
Security

John wants to know what this is for exactly.

Stan says that every five years or so Student Affairs is reviewed. This is our one chance in five years to make a change in our administration and he is supposed to get opinions as to what those changes ought to be.

If there are anymore Student Affairs comments talk to Stan.

It is asked if we are going to discuss Pat Yue's issue. Agreed that it will be discussed when Pat is present.

Laura Verhoff's Statement

Laura Verhoff submitted a statement discussing the rule change made in tennis by last year's IHC.

John thinks that if this official Ath manager business it should be discussed with the ASCIT Ath committee first.

Mikey suggests having Laura show it to the house Ath managers and the IHC will talk about it next week.

John is concerned that Laura wrote statement without talking to the committee about it.

Mike Debar thinks that the change in rules should be the decision of the Ath committee with the IHC stamp of approval.

Mikey wants to know what to tell Laura.

It is decided that Laura should talk to the Ath committee and then bring it back.

ASCIT

No one talked to the ASCIT BOD after they visited Blacker and Lloyd house for dinner.

Mike Debar brings up the Lloyd house money problem. He says that Lloyd was inadvertently given it multihouse money for a general (non-multihouse) request so when they asked for their multihouse money to play paintball with Blacker they were refused. Member of Lloyd do not think this is fair since it was ASCIT's mistake.

Tom Maccarone has written a letter to the BOD asking for money and

they said no.

Chris Marsh later gave Lloyd \$100 on the condition that they shut up about it or he'd take the money back.

The social funds split was BDR:\$400, PRF:\$0, Lloyd:\$200.

Lastly, the comment that there are too many committees deciding things is made.

John says that Brian Katon's pro-

posal for the BER (committee of three) is being written to be presented at the BOD meeting this week.

Meeting Adjourned

Later Clarifications

On May 18, Biff in the Housing Office states that the cancellation policy for the fall will be as follows:

Cancellations

Before June 1: no penalty
Between June 1 and September 1: the charges will be distributed among the load of cancellations compensated by filling spots (+\$100 cancellation fee)
Between September 1 and October 1: distribution of new contracts that weren't taken by the June-September cancellations.


Summer Room Picks

Blacker: Monday after dinner sometime
Dabney: Monday at 10:30 p.m.
Fleming: Monday at 7:30 p.m.
Lloyd: Monday at 8:00 p.m.
Page: Unknown
Ricketts: Non-existent
Ruddock: Unknown

PASADENA COMPUTER

1756 E. Colorado Bl., Pasadena, CA. 91106 T:(818)568-1088 F:(818)568-9132

Since 1988

<p>C:M</p> <p>VESA 66 Multimedia Hot! Best Buy!</p> <ul style="list-style-type: none"> - VESA LB Slots, 66MHz - Math Co-Processor Built-in - Panasonic Double Speed CD-ROM - Sound Blaster 16 - 2 Speaker - 7 CD Title - 4MB Ram - 420MB IDE hard disk - 3 1/2" 1.44MB floppy drive - 14" SVGA 1024 full screen (.28) NI - VESA accelerator SVGA W/1MB - 2 serial, 1 parallel - VESA dual IDE FD/HD controller - 101 keyboard - 3 button mouse One Year Parts & Labor Warranty <p>486/66MHz \$1499</p>	<p>C:M</p> <p>486 VESA LB</p> <p></p> <ul style="list-style-type: none"> - Pentium overdrive ready (P24) - Green Mother Board (EPA) - 256K cache - 4MB ram up to 128MB - 420MB IDE hard disk - 1.2 & 1.44 floppy drive - 14" SVGA full screen (.28) NI - VESA accelerator SVGA W/1MB - 2 serial, 1 parallel - VESA dual IDE FD/HD controller - 101 keyboard - 3 button mouse <p>486DX-33MHz \$1195 486DX2-66MHz \$1355</p>	<p>C:M</p> <p>Pentium PCI</p> <ul style="list-style-type: none"> - Intel Pentium CPU with Fan - 4 PCI, 5 ISA Slots - 256K cache - 8MB ram up to 128MB - 420MB IDE hard disk - 1.44MB floppy drive - 15" SVGA 1280x1024 (.28) NI - PCI accelerator SVGA W/2MB - 2 serial, 1 parallel - PCI IDE controller Card - 101 keyboard - Middle tower case - 3 button mouse <p>Pentium - 60MHz \$2150 Pentium - 66MHz \$2250</p>
--	--	---

All the computers & notebooks, printers are cash discount only

<p>EPSON® Color Notebook ActionNote 500C</p> <ul style="list-style-type: none"> - 486SLC2-50MHz - 4MB ram up to 8MB - Math Co-Processor socket - 120MB or 180MB hard disk - 1.44MB Floppy drive - 9600 Fax/2400 modem - Carrying case - Rechargeable NiCad battery - Logitech trackball - Light weight 5.5Lbs Pre-installed: - Microsoft DOS 6.2 - Microsoft Windows 3.1 - Win fax lite <p>One Year EPSON On-Side Service</p> <p>120MB HD \$1975 180MB HD \$2095</p>	<p>Canon</p> <ul style="list-style-type: none"> - New Intel enhanced 486SX-25MHz - 4MB ram up to 12MB - VGA accelerator video card with 512K (3.8 Winmarks) - 120MB IDE hard disk - 1.44MB Floppy drive - 9600 Fax/2400 modem - Built-in trackball (Middle) - Battery hours: 2.5 to 5 hours - 110-240 automatic - 5.9 lbs - Microsoft DOS 6.0 - Microsoft Windows 3.1 - Microsoft Works V2.0 - MicroFax by Phoenix <p>One Year Road-Side Warranty</p> <p>\$1299</p>	<p>MITAC</p> <p>Color Notebook</p> <ul style="list-style-type: none"> - 486SX-33MHz (Intel inside) - 4MB ram - 200MB IDE hard disk - 1.44MB Floppy drive - Built-in trackball mouse - System Preloaded - Microsoft DOS 6.2 - Microsoft Windows 3.1 <p>\$1850</p> <p>EPSON</p> <p>SubNotebook</p> <ul style="list-style-type: none"> - Only 4 Lbs - Built-in Sound Card - 486SLC-33MHz - 4MB ram up to 8MB - 120MB IDE HD - 1.44MB Floppy drive - PCMCIA Slots - Built-in trackball mouse <p>\$1399</p>
---	---	--

School PO# Welcome

90 days same as cash leasing program available

SERVING CALTECH SINCE 1945

Authorized Agents for Airlines, Hotels and Steamships

H.B. BENNETT

The Finest in Professional Travel Services

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

CAMPUS EXTENSION 5091

690 E. GREEN ST.
PASADENA, 91101
(between El Molino & Oak Knoll)

ASTA

This week special

<p>COMPAQ</p> <p>VESA 66MHz</p> <ul style="list-style-type: none"> - Intel inside - 4MB ram up to 32MB - 340MB IDE hard disk - 1.2 & 1.44MB floppy drive - 9600 Fax/2400 Modem - SVGA W/1MB - 2 serial, 1 parallel - IDE FD/HD controller - Compaq 101 keyboard - Compaq mouse Three Year Warranty One Year On-Site Service <p>486DX2-66 \$1995</p>	<p>C:M</p> <p>386DX-40MHz</p> <ul style="list-style-type: none"> - 128K cache - 4MB ram up to 32MB - 250MB IDE hard disk - 3 1/2" & 5 1/4" floppy drive - 14" SVGA 1024 monitor(.28) - 16 bit SVGA W/1MB - 2 serial, 1 parallel <p>One Year Parts & Labor Warranty</p> <p>\$895</p>	<p>Bondwell</p> <p>Notebook</p> <ul style="list-style-type: none"> - 486SLC-33MHz - 4MB ram up to 12MB - 120MB IDE hard disk - 1.44MB Floppy drive - 9600 Fax/2400 modem - Battery hours: 4 hours - 4.7 lbs - Carrying case - MS Dos 6.0 <p>\$1295</p>
--	---	--

Events and Notices

* denotes a new announcement
Notices

***Helping a Friend—Crisis Intervention Training** on Friday, May 20, 1994 from 9 a.m. to 1:30 p.m. The training will be conducted by the Women's Center Staff, all of whom have experience and training working with rape survivors. This three hour session will discuss Rape Trauma Syndrome, police and medical responses to sexual assault, and what to say to a friend who has been assaulted. Space is limited for this special training, so please RSVP to the Women's Center by May 19 or call us for more information at x3221. Lunch will be provided.

***TACIT Auditions for "Julius Caesar"** will be held in Winnet Lounge on May 28-30 from 2-6 p.m.

1994-95 H&SS Course Schedules—Preliminary schedules of courses to be taught in the Humanities and Social Sciences during the 1994-95 academic year are available in 228 Baxter.

Students traveling in Europe this summer can pick up a copy of **"Europe Through the Back Door"** from Lauren Stolper in the Fellowship Office in Lloyd House. The June-October edition contains an interesting article on women traveling alone, information on Eurail passes and lots of helpful travel tips and resources. Copies are limited to those on hand so stop by soon. Call x2150 and spell your name and give your box number of mail code to have a copy sent via campus mail.

On Tuesday the 24th of May, author **Jonathan Weiner** will sign his new book, *The Beak of the Finch*, from 12:00 until 1:00 at the Caltech Bookstore.

Attention Campus Employers! Do you have a job that a Caltech student could do for the summer—office work, lab work, any odd jobs? You can advertise them in the Career Development Center. Please call x6361 or visit us in Room 08 Parsons-Gates.

Coming Events

***The Caltech Y Noon Concert Series** presents David Harris at 12 noon on TODAY, Friday May 20. Each lunch outside

and listen to David's beautiful singing and guitar playing.

***The Caltech Y** has tickets to the Renaissance Pleasure Fair. Tickets for adults are \$10.50. All tickets are good until June 12. Come by the Caltech Y and get your tickets today.

***Sunday Chamber Music**—this Sunday, May 22, 1994 at 3:30 p.m. in Ramo Auditorium. features a potpourri of Jascha Heifetz and Fritz Kreisler favorites performed by Caltech's leading amateur virtuoso violinist, Dr. Simon Ramo and Beethoven and Mendelssohn performed by Caltech students. Free admission—surprise encore! A reception will follow the concert.

***Caltech Management Association**—presents Colin Silvio discussing "The Campus Connection" on Wednesday, May 25, 1994 at noon in the von Karman auditorium.

Mostly Moscheles—A celebration of the 200th birthday of Ignaz Moscheles (1794-1870). **Rick Wilson**, flute, and **Jessica Madow**, piano. Music of Moscheles, Adolf Terschak, and Wilhelm Popp on 19th century Viennese flutes; piano works by Moscheles. Thursday, May 26, 8:00 pm, in Dabney Lounge. Free.

***Last film in Images of American Labor Film Series: "American Dream,"** screening at 7:30 PM on Monday, May 23, 1994, in Baxter Lecture Hall. Free and open to the Caltech community.

***Conquering Cancer:** From the lab to the clinic. Wednesday, 1 June, 1994 at 7:30 p.m. in Ramo Auditorium. This symposium offers an opportunity to learn about the interface between the basic research being done in the laboratories at Caltech and the clinical applications of that research taking place at USC/Norris Comprehensive Cancer Center.

***Friday Noon Chamber Music**—May 20, 1994 at Dabney Lounge. Romantic Music (Mendelssohn, Schumann, Zemlinsky) and a little Handel. Lunch provided! If you can, please arrive early so music can start at 12:05.

***Science, Ethics and Public Policy Seminar**—Thursday, 26 May 1994, 4:00 p.m. at Judy Library, 110 Baxter. **"Trust, Honesty, and the Authority of Science: A Historian's Comment"** by Dr. Steven Shapin, Professor of Sociology at the University of California, San Diego. Refreshments will be served.

Ernest C. Watson Lecture—"Farewell to the Party of Lincoln": African-American Politics in Depression-Era Los Angeles" will be given by Dr. Douglas Flammig, assistant professor of history at Caltech. Admission is free for the lecture, which will take place at 8 p.m. on Wednesday May 25 in Beckman Auditorium.

Caltech Muslim Students **Friday Prayers**. 12:30 p.m. in the Y Lounge, every Friday.

A Night at the Opera—You won't want to miss Gilbert and Sullivan's **"Trial by Jury"** as Edwin (JPL Engineer David Santiago) becomes the defendant in a breach of promise suit brought by Angelina (fresh Carrie Griffin). Angelina, not unaware of her charms, captivates the Usher (physics grad Kent Bradford) and the Judge (physics senior Alex Zeyliger) and the entire jury! Will Angelina's lawyer (sophomore geology major Laura Brady) successfully plead her client's case? Will Edwin's proposal of serial monogamy be accepted? Will the Judge get to make Edwin drunk? (Will the jury and the bridesmaids get their entrances right?) Come to Dabney Lounge at 8 p.m. Friday or Saturday night, May 20 or 21 to find out. Also on the program are favorite opera choruses performed by the Men's and Women's Glee Clubs. Tickets for A Night At The Opera are on sale now from members of the Glee Clubs and will be available at the door both nights. \$5 (student) and \$7 (general). A reception will follow both performances. To reserve seats call the Caltech Ticket Office at (818) 395-4652 or (800) 423-8849.

Fellowships and Scholarships

Watson Fellowship Discussion—Come and learn more about the Watson Fellowships on Tuesday, May 24 at 7:30 p.m. in Winnett Center's Clubroom #1. Mike Clemens, a Caltech senior who won a Watson Fellowship, will provide valuable insights about the Watson application process. Dr. Joe Kirschvink, Professor of Geobiology, was a Watson Fellow in 1975. He will be there to share his experiences as well. ALL UNDERGRADS WELCOME. Refreshments will be served.

The Kirby Company is continuing its annual college scholarship program, **"Makin' the Grade."** Scholarships range from \$250 to \$1000. Participants work as full-time and part-time independent Kirby dealers during June, July, and August, competing for monthly scholarships based on sales performance. For

more information, contact your local Kirby distributor, call (216) 228-2400, or write The Kirby Company, 1920 West 114th St., Cleveland, OH 44102-2391.

***Marshall Scholarships** allow students who have U.S. citizenship and an A- GPA (not counting freshman year) to study at any university in Great Britain for two years. The Marshall is one of the most distinguished fellowships and is sponsored by the British government to commemorate the humane ideals of the Marshall Plan. Applicants should be graduating seniors (that's you current juniors!) or graduate students who will be twenty-five or under as of Oct. 1, 1994. Applicants may study in any discipline at the undergraduate or graduate level. Last year over 800 applicants nationally competed for forty awards. If you signed up on the summer fellowship mailing list for the Marshall you will receive an application shortly. If not, call Lauren Stolper at ext. 2150 or email Lauren_Stolper@starbase1.caltech.edu to request an application. Married students may apply and generous spousal support is available. The awards for single students are valued at over \$40,000 for two years of study.

***Fulbright Grants for Graduate Study or Research Abroad** provide funds for graduating seniors, grad students, or post-docs to study or do research in over 90 countries throughout the world. Grants are for one year and fund travel, tuition/fees, and a living allowance. This is a great opportunity for graduating seniors to go abroad and for grad students who want to study or do a post-doc outside of the U.S. U.S. citizens may obtain information on an application from Lauren Stolper, ext. 2150. International students can contact Lauren Stolper to determine if their country participates in the Fulbright program. Those who signed up to receive Fulbright information on the Fellowship Summer Mailing List will receive information shortly.

***Summer Work Study**—Information and applications for 1994 Summer Work-Study are available in the Financial Aid Office. If you are interested in Summer Work-Study, please submit the required application as soon as possible, but no later than June 1, 1994. Your entire financial aid application must be complete by June 1 to be considered. If awarded, the work-study funding will begin with the July 4th payroll period.

The Financial Aid Office has applications and/or information on the following and additional scholarships. All qualified students are encouraged to apply.

aged to apply. Our office is located at 515 S. Wilson, second floor.

Jewish Family and Children's Services is accepting applications for student loans, grants, and scholarships of up to \$5000. Jewish students who are residents of San Francisco, the Peninsula, Marin or Sonoma Counties (for scholarships and grants), or residents of the Bay Area (for student loans), and who demonstrate financial need and academic achievement are eligible to apply. To receive an application, call (415) 561-1226 or come to the financial aid office. Applications are accepted throughout the year.

The **John Gayles Educational Trust** is offering financial assistance to Canadian and American citizens. Selected students will receive up to \$2,500. A minimum GPA of 2.7 is required. Deadlines range from April to November. For an application, send a self-addressed, stamped #10 envelope to: The John Gayles Education Fund, Attention R. James Cogle, Administrator, P.O. Box 4808, 712 Riverside Drive, Fredericton, New Brunswick, Canada E3B 5G4.

The **National Hispanic Scholarship Fund** is offering scholarships to qualified Hispanic students. Applicants must be full-time, day-time students who have completed a minimum of 15 college credits and are U.S. citizens or permanent residents of the U.S.. The deadline to submit applications is June 15, 1994.

The **Asian Pacific Women's Network**, Los Angeles, announces its 1994 scholarship program. Four \$1000 scholarships will be awarded to women of Asian or Pacific Island ancestry. Applicants who are attempting to make major life changes by pursuing new careers, and recent immigrants who are studying English as a second language are especially encouraged to apply. All eligible applicants must reside in one of the Southern California counties. The application deadline is June 30, 1994.

The **Bakersfield Desk & Derrick Club** is accepting applications for the Wilma Addington Memorial Scholarship. Applicants must be Kern County residents, and must be pursuing a degree in an energy related field. Application in letter form should be submitted to the following address: Jan Walker, Chairman, Desk & Derrick Club Scholarship Committee, P.O. Box 11064, Bakersfield, CA 93389-1064. The Financial Aid Office has more details. Applications are due September 1, 1994.

ACADEMY BARBER SHOP

27 N. Catalina Ave., Pasadena
Open Tues.-Sat., 7:00 A.M.-4:00 P.M.
(818) 449-1681

Rag Time on Green

RESALE CLOTHING
for
WOMEN

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

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



PARIAN TRAVEL

Caltech Officially Approved

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

Free service to you. We deliver.

Airlines, Cruises, Tours, Hotels, Car Rentals.

Individual, Commercial, Groups.

(818) 577-8200

468 S. Sierra Madre Blvd., Pasadena

Save up to 35%

BURGER CONTINENTAL

Save up to 35%

TO ALL CALTECH STUDENTS, FACULTY AND STAFF:

*All the time.
Seven days
a week.*

BREAKFAST BUFFET Mon-Sat \$3.95

LUNCH with soft drink **\$4.95**

DINNER with soft drink **\$6.25**

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

SPECIALTIES

Shish kebab Shaorma Souvlaki steak

Fresh fish and lamb Baklava

Homemade pizza Gourmet hamburgers

We cater for all occasions

535 S. Lake Ave.

(818) 792-6634

Mondays – Half price margaritas.

Tuesdays – Beer half price.

Wednesdays, Thursdays 3-7 P.M.

"God and elementary particles have only relative conditions of state, whereas a surface has an absolute condition of state, namely curvature; thus only a surface can be fundamental existence, being that it is independent from anything else."

THE EXACT NATURE OF THE UNIVERSE & GOD

By Joel WEBB

A Study of Surface Mechanics

Topics include the computer simulation of the nuclear-gravitational force continuum, neutron fine structure, the Contracting-Universe hypothesis, the first events and processes found in nature and luminiferous ether re-visited.

AVAILABLE AT House of Fiction and Ample Non-Fiction
663 E. Colorado Blvd. Pasadena

The California Tech

Caltech 40-58 SAC
Pasadena, California 91125