

# WAR!

by Zack Berger

The combatants faced each other across a field spattered with the honored blood of ages past. Steely glints shone in their eyes. Their arms were of steel, and their torsos, too, of steel. Steel was their watchword, steel their animus and anima. The sun, shiny as steel, glinted down upon the fearsome scene.

The combatants glinted at each other, steelily.

A penguin, clearly in heat, wandered within full view of the combatants. It was not steely.

Their arms were ready to draw, minds ready to comprehend the deathly expanse they were about to cross in their mighty, steely ships. Trumpets sounded in the distance, and the rolling of drums could be heard. A fife began playing, soon followed by its country cousin the accordion. In a farmhouse, a young boy, sensing what was to come, picked up his kazoo and played a tune from the old country. The Chicago Symphony Orchestra, under the inspired leadership of Sir Georg Solti, has cut a wide, impressive swath through the symphonic literature.

Somewhere over far-away hills a steel drum sounded clearly and sweetly.

Brother whispered to brother: War! Sister whispered to sister: War! War! sounded through the hills and valleys. Politicians pricked up their ears at the word's sound. Stock markets fell several dozen points in early afternoon trading. War! was the topic at breakfast tables, and War! the talking point in the Oval Office. War! was given sycophantic burbling in *Rolling Stone*, a flattering profile in *TIME* and a long think piece in *The New Republic*. *The Tech* failed to mention it.

"Mother!" children cried, home from school. "What is this great thing, this 'War!'?" They were told to ask their fathers. Their fathers, stunned, fell headlong off their comfy living room recliners and had to be taken to hospitals, where the doctors and nurses were preoccupied with talk of War!

War! was seen in a thousand places together with Elvis and Amelia Earhart.

The two combatants (to continue) faced each other; they had long since ceased glinting, because all steel was impounded for time of

War! The contest was about to begin.

"Five," said one, the word barely able to escape through the serrated ranks of his steel-like teeth.

"Six," was the response.

The victory belonged to the second warrior.

"Four."

"Ten."

Ten is higher than four. Minds stretched, yet kept their steely strength.

"A king."

"A king."

A cry of War! echoed through the hills and valleys, from Paris to London, from London to Moscow, from Moscow to a tiny town in the hills of Washington state—where a small boy, sensing that momentous deeds were afoot an ocean away, picked up his electric guitar. That boy was Jimi Hendrix.

Three cards from each of the players. Four cards in all! and one to decide their fate.

"Nine."

"An ace."

"Hurrah! Hurrah! Hurrah!"

The crowd hurrah'd until seven were killed and three wounded by a combatant's steely glint.

When would they learn? When would the combatants learn? When would Jimi Hendrix learn? They would all learn, eventually, that . . .

War! has no winners.

War! has no losers.

It just goes on and on . . .

It is the scourge of this and every century.

"Three!" "Two!" "Nine!" "Jack!" "Queen!" "Four!" "Seven!" "Three!" Cards passed from hand to hand. Hand to hand to hand to hand. Steely glints roamed the crowd demanding protection money. When a small boy refused, he was GLINTED! Imagine the horror felt by his parents! Imagine the terror felt by his grandparents! Imagine the slight nervousness felt by his second cousin twice removed!

"Twenty thousand children every year," mourned one of the combatants in a public service message just before he keeled over from lack of meaning, "are killed by steely glints. And only you can help."

"Why should we want to help?" This from an old woman in the audience with steel-gray hair. "Ain't



Deep behind enemy lines, War! continues apace.

steely glints got rights too? And if they want to kill and plunder, I say let 'em!" Many in the crowd roared their approval.

The combatant sighed, and returned to his play. He had just three cards, while his opponent had forty; nine abstained. Who would win?

Choose your own adventure special: If you think the guy with three cards wins, turn to paragraph one. If you think the guy with forty cards wins, turn to paragraph two.

Three cards—yes, very few! But enough, indeed, to carry him to a sweet and tasty victory. Proceed to paragraph three.

Forty cards—yes, short of a victory! But courage, indeed, led him to sweep up the rest. His comrades carried him on their shoulders—through London, through Moscow, through a small town in Cincinnati, where a little boy getting ready for school then and there decided to kill as many people as he could. That boy was Charles Manson.

War! faded from the memories of the people as quickly as it had come. How quickly had it come? Let's figure this out like scientific ladies and gentlemen.

If War! had to travel sixty-four feet to get to the people's memories,

And it did this in one second,

Then War! traveled sixty-four feet per second. That's faster than gravity after one second!

Now you can understand—when we say that War! faded from the memories of the people as quickly

as it had come, we mean *quickly*.

War! never quite regained its popularity of those days, when its name rebounded from hill to hill like a crazy Superball. It tried taking out an ad in the local paper: "WANTED! Combatants for War! Experience: 1933-45, 1914-18, etc. etc. Ask for Mars. References available upon request." War! got no responses, except for an old lady with a steely voice who wanted to rape and pillage for no discernible social good.

(If you think rape and pillage can in no way be associated with discernible social good, then you haven't lived long enough.)

War! got on public access cable. War! rented an airplane to fly over the Rose Bowl during halftime. War! wore a sandwich board up and down Venice Beach. War! sat on the I-5 median with an outstretched tin cup. Nothing! Nothing! Nothing!

Hurrah! Hurrah! Hurrah!

One horrifying day, War! got mono. Who had he kissed? he thought. No one that he knew of. (War!'s love life was not the best.) He lay in bed for months, thinking warlike thoughts that slowly gave way to sad thoughts and, finally, thoughts of the one love in his life.

Becky Sternberg sat across the way from him in fifth grade. He loved her more than anyone he had ever known. He sent her notes and offered to show her his private collection of human suffering, but no go.

In the midst of his mono, his father came to visit. "I'm such a loser!" complained War! to him. "Son," his father corrected him sternly:

"War! is no winner.

"War! is no loser.

"It just goes on and on.

"It is the scourge of this and every century."

## The California Tech

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# letters to the editor

## Preconceptions more dangerous than prejudice

This past Friday, I attended a showing of the ASCIT movie, "The Fugitive". I enjoyed the movie greatly, but I had a great problem with the behavior I observed in the audience. There is a particular scene in the movie where Tommy Lee Jones, after having just shot a fugitive who was holding a fellow officer hostage, was assailed by the loud screams of a woman. He pointed to her and said, "Shut up" in order to achieve the result of silence. Of course the audience laughed at this. But I heard a loud voice say, "You think that's funny?" At the end of the movie, I noticed someone stand from where the direction of the voice was from, and proclaim that she was extremely disturbed by the fact that our fellow Techers were laughing at an example of a white man telling a black woman to shut up. I was extremely disturbed by this conduct. No, not the audience's behavior. Hers.

To you, madam, whoever you may be, I understand what a sore nerve it touches to have Hollywood yet again reuse stereotypes

in order to achieve drama for the *hoi polloi*. It is possible to interpret this scene in the manner you did, seeing a man dominate a woman, a Caucasian dominate an African-American. But, if you will, entertain another perspective: switch the races of the principals involved. Would this scene still be funny? Think of what the character that Tommy Lee Jones was portraying went through. He had just managed to pull off a very difficult, risky shot to save his partner. He is stressed (I'm sure we all know what THAT feels like around here) and is starting to calm down when someone else is creating more stress around him by starting to scream. Tommy Lee Jones is not portraying a nice guy—he's an asshole who gets the job done. So of course he's going to do the most expedient thing he knows to make the screaming stop. That, at least to me, was what was inherently funny. Hasn't there been a time in your life when you wished you could make whatever was stressing you stop that fast, that efficiently?

I also do not understand what you were trying to achieve by standing up and scolding us and pointing out the racial difference of the characters. Nothing was further from my mind! It seems to me

counterproductive to achieve true acceptance of all races being equal by constantly pointing out the differences between people. Your ire would perhaps be better directed at the people who made the movie for perpetuating a subconscious stereotyping of characters. Also, you were in fact perpetuating your own perspective because—surprise—some people in the audience would tell you to shut up. And some of your critics were white. Where will this madness end?

I wish to point out there are better ways to get across your message to the general population of Caltech. Say, vent your opinions where they're supposed to be vented—like the *California Tech*. I would also appreciate a little more consideration of one's actions before one commits them. I know we're all supposed to be intelligent—think a little before you do something. More dangerous than prejudice is preconception—that runs more than skin-deep.

Karen Kustedjo

Please send letters to the editor to *The California Tech*, Caltech 40-58, Pasadena, CA 91125, or by e-mail to [editors@tech.caltech.edu](mailto:editors@tech.caltech.edu).

# Ernest Explains

Ernest Tomlinson

Dear Ernest,  
I'm sitting here reading today's Ernest Explains, and I just can't get over this picture. You've used some pretty weird pictures before, but this one is downright homely. What's up?  
—Wondering in Robinson

Dear Wondering,  
Uh, that's me.

Dear Ernest,  
I would like to complain about your column of March 11. In it, you have a reader responding to something in that day's column! When will these blatant violations of causality cease?  
—Peeved in Parsons-Gates

Dear Gary,  
As soon as possible.

Dear Ernest,  
Why are there only five platonic solids?  
—Curious at Cornell

Dear Carl,  
When Plato was writing his treatise *On the Five Cool New Solids That I Have Named for Myself*, he was attempting to find a way of honoring five of his closest friends by naming one polyhedron with regular polygonal sides for each of them. However, Plato's attempts to immortalize them by naming the solids *epsteinohedron*, *barbarinohedron*, *washingtohedron*, *horshackohedron*, and *kotterohedron* failed, since Aristotle, his most prominent pupil, renamed all of the Platonic solids after his five concubines.

## Island Adventures with Anil Roopnarine

The Liming scene . . .

Fuh one ting I bet if I say something like 'Hey man leywe lime nah' alluh wouldn't understand meh ent? Well lemme try to teach alluh yankees some trin lingua. Now most ah alluh probably familiar with de word lime ent? Well lime can be used as ah verb. Yes dis is true, I could lime, you could lime. Everybody could lime, all it takes is ah bit of limability.

Yuh see how alluh americanos does use de word cool? Well I hate to tell alluh dis eh, but alluh does overuse it. But ah straying from de point. When ah man want to kill some time, ah man does go an lime. In ah nutshell, liming is de process of killing time, which is usually de case when yuh just having fun. Now good liming is proportional to de number of participants in de lime. Doh get meh wrong now, it is okay fuh you to lime alone, but yuh go have to explain yuhself, if somebody ask yuh "how yuh liming so dreds? yuh eh want to lime with we eh? yuh feel yuh too good for dat nah. welll . . ." yuh get de picture ent?

Well is dis good enough journalistic style fuh yuh? Bet yuh cyah rebut dis nah heh heh heh . . .  
—The 'lone' Trini gone.

## Our favorite letters . . .

From January 27, 1989 . . .

### Tracy Whacks Philosophical

To the Editors:

I think it's sad that many people have tried to stop this letter from being printed. It doesn't contain the profanity or bad taste that many of the features printed in the *Tech* contain. No, it contains none of that. It's about a perfectly normal action that's universal to nearly all males and most females. But still many people feel this letter isn't proper for publication. What is my letter about? Masturbation.

Until a few weeks ago I hadn't realized how uptight people are about this subject. People were shocked when I admitted that I masturbated. When I asked these people if they masturbated, they had no reply. They were afraid to admit the fact but they didn't want to deny it. What's the big deal about masturbation? It's so natural and sensible. It's just like eating to satisfy your hunger. Similarly, you masturbate to satisfy your sexual desire. It's safe and it certainly is better than entering an undesirable relationship just for the sake of sexual gratification.

Masturbation is not the perfect

solution to relieving sexual frustration, but it helps. So do it and do it often. Don't worry about making a mess; that's what the linen exchange is for. It's time we take the problem of sexual frustration into our own hands.

—Tracy Fu lamebutt freshman

From December 6, 1991 . . .

### Hom on Racism

While I don't know Jon Liljebld well enough to place labels on him, his use of the term "non-white species" shows that he possesses a prejudiced and insensitive understanding of non-white America.

Sincerely, Gilbert Tom Hom

### Ed. Reply:

Quite frankly, I was deeply offended and incensed by Mr. Hom's letter this week.

Mr. Hom, you evidently perceive me to be a white racist pig from the deep South.

On the contrary, recent consultation with my mother has proven that I am a 100% Burmese student who has grown up in various places around the world. I have uncles and cousins (through marriages) who are Sikh, Shiite, Jewish, Buddhist, Gurkha, Shan, Chinese. I have

grandparents (not actually by blood, long story) who are Norwegian, German, Swedish, Burmese (by blood), and Indian. I am definitely NOT white, and I do NOT think that I have an "insensitive opinion of non-white America." If anything, I consider myself as having a decent grasp of non-white America, as I clearly am one. I also consider myself as having some grasp of how it is better possible for ethnic groups to unite (rather than yell at each other and start shooting).

And forgive for losing my temper, but WHO THE HELL ARE YOU to say that I have a "prejudiced" opinion?!?! I was the one kicked out of an all-white town in Louisiana, I was the one who was literally spit on and beaten up by a bunch of white boys in Duncanville, Texas, I was the one who was told by some hick that "There's too many damn chinks in American colleges." I am the one who by all rights should be carrying on an anti-white crusade, BUT I REFUSE TO LOWER MYSELF to this level. For you to say that I am of this prejudiced crowd is

continued on page 28

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## The California Tech

Caltech 40-58 SAC, Pasadena, CA 91125  
phone: (818) 395-6153  
e-mail: [editors@tech.caltech.edu](mailto:editors@tech.caltech.edu)  
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Michael "David Poe" Benedetti  
Chris "Mike Royko" DuPuis  
Michael "Ed Zotti" Radford

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Chris "Rupert Murdoch" Echols

EVENTS AND NOTICES EDITOR  
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PHOTOGRAPHER  
Lisa Coleman

CIRCULATION  
Rebekah Mills  
Wei Lin

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Margaret Belska

Zack "H. L. Mencken" Berger  
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CONTRIBUTORS  
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SHOWING TONIGHT AT THE ASCIT  
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SEE IT AGAIN ON THE BIG SCREEN!

Flight school enrollment:	Tuition:
Friday, March 11	\$ 1.50 A.S.C.I.T.
Baxter Lecture Hall	\$ 2.00 O.T.H.E.R.
7:30 and 10:00 PM	

## Letter from the editors

It has been traditional for the editors to print, in their final issue, a statement apologizing for destroying the *Tech*, and claiming that it is impossible to write anything about Caltech. Although we plead guilty to the former, we have discovered that the latter is not true—with a good staff and conscientious editors, it is possible to fill eight pages with interesting or relevant stories about Caltech. It is certainly the editors' fault, not the staff's, that we've only done this two or three times in thirty issues.

The editors constantly complain about all the work we have to do, but without all the people who've helped us, there would be nothing to read every Friday morning. We'd like to thank everyone who made the *Tech* happen—here they are, listed chronologically where appropriate, and alphabetically otherwise:

Hall Daily, our advisor  
Chris "X" Echols, our business manager and occasional contributor  
Rajesh "Q" Bilimoria and Mike Oder, the previous editors

### The Tech writing staff

Tobias Bartels  
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Zackary Dov Berger  
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### Photographers

Anoop Sinha  
Rich Zitola  
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### Circulation staff

Sean Vellucci  
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Heidi Sutton  
Rebekah Mills  
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### Contributors to the sports page

Ned Bowden  
Jim O'Brien  
Tom Dmukauskas  
Bryce H. Elliott  
Seiya Fukuda  
Damien Martinez, our erst-while sports editor  
Matt Metz  
Tim Wachholtz  
Andrew Zug

### Occasional contributors

Vicki Brown  
Michael Brundage  
Dennis "Trylæn" Chang  
Chris Dean  
Anae Dudzik  
Amanda Eckermann  
John Haba  
Adriana Lozano  
Daniel Maskit  
Ben McCall  
Gorm Nykriem  
Kurt Revis  
Anil Roopnarine  
Shane Sauby  
Connie-Lynne Villani  
Julius Yang  
Caltech Public Relations

### Contributors from ASCIT, the IHC, and the Y

David Derkits  
Flora Ho  
Katy Quinn  
Anandi Raman

Karen Shih  
Craig Smith  
Sam Webb

### People who surprised and pleased us with unexpected contributions

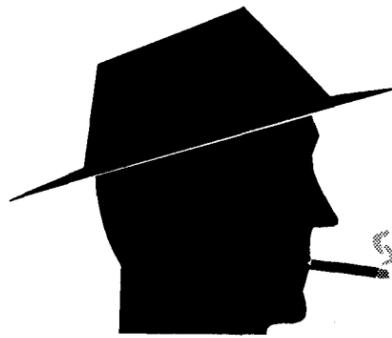
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H. K. Thio  
Jonathan Vos Post  
John White

### Temporary Hot, Throbbing Rivet staff

Jon Lange  
Jon Weinstein

Jim Murdoch and Rudi Cilibrasi, for reviving our computers at the eleventh hour

Travis Maron, for other computer help  
all the Caltech staff we've dealt with  
everyone at the Caltech mail room  
Ernest Tomlinson, for letting us use his name  
and special thanks to everyone at News-Type for putting up with us.



## CRIME AND INCIDENT BEAT

by Gypsy Achong

News: The 60-65 new bike racks that have been set up around campus were donated to the Institute by the City of Pasadena. Caltech paid for the installation. Two bike lockers have also been promised. Peggy Thornton from Commuter Service and Rick Canny from Development were instrumental in obtaining the new racks for the community.

2/16-17 A room in the basement of Church was broken into. Five vacuum pumps and a service cart were stolen. \$2625

2/17 2:00 P.M.-2/25 10:30 A.M. A microprocessor chip was stolen from a Gateway 2000 computer in Sloan. Someone had also tampered with one of the names on a directory cabinet. \$550

3/1 4:15-4:40 P.M. Some of a student's personal belongings were removed from his open room in Ricketts House. \$365

3/4 7:45 A.M.-4:35 P.M. A Honda Civic was stolen from Tournament Parking Lot on the south side of the tennis courts. PPD was called. \$5000

3/5 11:00 A.M.-3/6 1:58 A.M. The driver's side window of a vehicle parked at the Chester parking lot west of Watson was broken. A tool box and some change was stolen.

3/5 12:00 A.M.-3/6 12:00 P.M. A CD player was removed from a locked room in Thomas. There was no sign of a forced entry. \$150

3/4 11:00 A.M.-12:00 P.M. A check was stolen from an office in Beckman Institute.

3/4 11:15 P.M. Two undergrads were riding at the corner of San Pasqual and Catalina. Two men driving in a white 4 x 4 with white racks on top of the cab and dark trimmings on the lower portions began to yell at them and threw an object which shattered along the street. The students fled into the Catalina apartments, and the 4 x 4 continued to circle the surrounding streets looking for them. The men left when they passed by the parking structure on Wilson Ave. and saw the students reporting the incident to the security officer.

This week's total: \$8690 + 1 check

## Caltech offers option in philosophy, ethics of science

by Flora K. Ho

Caltech provides a strong technical background for its students, but for those who wish to better understand the relationship between science and the real world, a new undergraduate option (also open to graduate students as a minor) is now available. The aim of the Science, Ethics, and Society (SES) program, framed by professors Daniel Kevles and Jim Woodward, is to provide students with "a broad historical and philo-

sophical education in the social, economic, ethical, and political problems that have arisen in the modern world in connection with the advance of science and technology."

The program is not intended to provide students with moral or ethical instruction, but rather to teach them how to think about and deal with interrelated issues in science, technology, and society. Through a core based on a historical, ethical, and philosophical investigation

into topics like the Scientific Revolution, the politics of research, and the evolution of theories of cognition, the SES option hopes to explain how disputes have arisen over ethics and policy in areas like research and development, energy supply and conservation, the environment, and biomedicine.

Familiarity with these ideas is important for all scientists, given science's influences on society, and vice versa. Undergrads majoring see *OPTION*, page 5

I am writing to draw your attention towards what seems to be a rather perplexing omission from your publication; there is nothing—nothing—to read in *The Tech*. I hope you will take immediate steps to rectify this neglect.  
Sincerely,  
Khurram Dastgir-Khan

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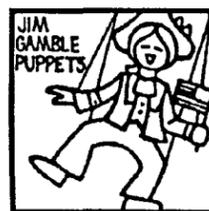
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# The 1994 Beaver Cup: CIT vs. MIT

by Mike Slessor  
and Frank Monzon

Once again, we find ourselves deep in the throes of a bitter Southern California winter, when our thoughts turn towards the graceful, yet violent ballet known as ice hockey. The questions on everyone's minds: Will the Kings make the playoffs? Will the Mighty Ducks (and you thought Beavers was a lousy nickname) beat them out? When did Caltech get a hockey team? All this can mean only one thing: it's time for the Beaver Cup, the annual ice-bound rekindling of the bitter rivalry between the two mighty Institutes of Technology. This year's version will take place on Sunday, March 13, at the Pasadena Ice Skating Center (right behind the Plaza Pasadena at 300 East Green Street).

This year's squad, characterized by a frenzied tenacity, matched only by their desire to steamroll through the Pacific Coast Hockey Association's Central Division, has so far put together a respectable 4-6 record in league play. Next to last year's disastrous 3-15 season, just about anything looks good. Let's run down the lineup, to give you, the potential Caltech hockey groupie, a chance to meet the Caltech "A" team.

We'll start with our netminders, the backbone of our team. Co-author Frank Monzon, fresh from the hallowed Ivy League halls of Princeton, where he was the starting catcher on the varsity baseball team, really enjoys having small, dense, hard objects rocketing towards him at high velocity. Ali Alagheband, a senior in Mechanical Engineering, hails from that hockey hotbed of Iran, where he starred in their fruitless Olympic bid.

Our defensive corps is anchored by nth year star Jacques Belanger, who also fills the roster spot traditionally reserved for the crazed

French-Canadian enforcer. Lining up next to Jacques is freshman star Mark Stewart, who possesses a remarkable amount of athletic ability for a Caltech undergraduate. Chris Claypool, another new addition this year, brings good speed and a moderate-to-low desire to win to each and every game, while Biff Yamazaki, who regularly risks life and limb to block shots and drill opponents twice his size into the end boards, provides a stabilizing force back on the blueline. Also, fully-licensed pilot Dennis Moore adds guidance and verve, despite a near-fatal wrist injury suffered in an early season plane crash. Last but not least come the contributions of John Cortese, whose boundless aggression during practice prepares the squad for the intimidating tactics of USC and UCLA, and Maxim Lyutikov, whose high-speed, high-precision stickhandling, usually while outnumbered in his own zone, keeps the fan(s) on the edge of their seat(s).

On offense, we have an eclectic set of forwards. Freshman Steve Chase (5'-0", 104 lbs.), without a doubt the finest pound-for-pound hockey player in the history of the game, centers a line with Swiss import Marcel Widmer on the right side, and former Czech national team superstar Pavel Svitek on the left wing. When asked about Pavel's innate playmaking ability,

Slovakian Olympic team captain Peter Stastny was heard to say, "That Svitek guy was the dirtiest player I ever stepped on the ice against. He's not in this tournament, is he?" Pavel leads this year's team in all major categories, including goals, assists, penalty minutes, game misconducts, and number of opposing players injured through the use of the stick. Our veteran line, composed of captain Jeff "Bonecrusher" Moore, Biology grad student Bob "Mad Dog" Lane, and Olympic speed-skating hopeful Haj "Quick Trigger" Sano, has had trouble filling the net this year, in contrast to their prolific output last season. The forward corps is rounded out with the "2nd year aero line". Your humble (with good reason) co-author Mike Slessor centers this finely tuned offensive juggernaut, while on his wings are sometimes-enforcer, sometimes-student Mike Tierney and the lone California native (albeit chock full of Ukrainian blood) on the team, Jon Hodowany-Stone.

All of these colorful and talented figures meld together under the subtly brilliant coaching of Ron Siefert, a former defensive cornerstone whose career was cut short by a series of heartbreaking shoulder dislocations. If you haven't yet seen the icebound poetry that is Caltech hockey, come cheer the home team on, this Sunday at 11:30 A.M.



## Bridge Without Same

by Wei-Hwa Huang

*I can't believe this ~~was~~!*

Playing West at a not-so-friendly (in fact, downright inimical) rubber bridge game, I deal myself the following hand for the first round:

♠ A ♥ AJ4 ♦ AJ6 ♣ AKQ1095

I found myself having no trouble at all counting up to nine tricks; and, wanting to get the first game over with, I bid 3NT, North passing. Now, I know all you expert-like people out there are screaming "No! No! You're going to miss slams with that sort of bidding! Bid 2♣!" Well, hey, I don't give a ~~damn~~ about your slams. With the partner I'm playing, he'd probably take my 2♣ as a weak two. Nosiree, I'm staying where it's safe. My partner bids 4♥. Great. He's probably got a ~~load~~ load of hearts and wants to play it. O.K., he can have it then. Pass. South then shouts out that waitasec, he hasn't bid yet. I give the guy a dirty look, as if to say, "Like you have points to bid, right? Huh-huh." Somewhat prodded by this, he bids 4♠. What a ~~cluehead~~ cluehead. I want to double him, but I just don't want to defend with this hand, so 5♥. North passes. At least someone's got a brain. My partner passes. Cool. For a moment there I was worried. The ~~cluehead~~ to my right bids 6♦. Jesus, won't this guy shut up? My "double" comes out like a boom, along with a "you're going down, boy!" North fidgets around in his seat for five minutes before he bids 6♠. He's probably trying to make the best out of a sticky situation. That gets passed around to me, and I double that too. The double holds, and I lead the ♠A.

Dummy comes down:

♠ J10643 ♥ Q1073 ♣ J762

Jeez. No wonder the poor dude switched to spades. Dummy plays 6, my partner the 3, and declarer plays the 2. Okay. I then throw down the ♠A, setting the contract. South starts whining again. He won the trick, he says. Whaddaya mean, you won the trick? I saw you, you played the 2. "What's that then?" he says, pointing to dummy's ♣2. He then fans the last trick, showing his ♠2. Oh, so I saw a black two and assumed it was clubs. Fine, fine. I take back the ♠A and give him the trick. So he goes down four instead of down five, big deal. He leads a low diamond, maybe hoping I'll play the ace. Fat chance. I play the ♦6, and he trumps with the ♠3 in dummy. He then leads the ♠4. I'm thinking, great, that'll put me in control, when my partner plays the ♠K. I stare into my partner's eyes while Declarer plays the ♠5, and then I overtake the trick with the ♠A. My partner then gives me a dirty look. Whaddaya expect, bozo? Okay, so maybe declarer's going down two instead of three because of your mistake, partner. I lead the ♥A for the setting trick, or so I think. Declarer trumps with the ♠7, making me almost lose my temper, and then asks me how many diamonds I have left. None of your beeswax, jerk. He then turns to my partner and asks how many diamonds he has left. Like the patsy he is, my partner gives up the data: "Two." Declarer then claims: He'll trump a diamond in dummy, getting back to his hand with the ♠Q, then trump another diamond in dummy, pulling our diamonds and making his hand high. This was the entire hand:

♠ J10643  
♥ Q1073  
♦ —  
♣ J762

♠ A	N	♠ K
♥ AJ4	W	♥ K98652
♦ AJ6	E	♦ K105
♣ AKQ1095	S	♣ 843

♠ Q98752  
♥ —  
♦ Q987432  
♣ —

WEST	NORTH	EAST	SOUTH
3 NT	Pass	4♥	4♠
5♥	Pass	Pass	6♦
Double	6♣	Pass	Pass
Double	Pass	Pass	Pass

I say, ~~What?~~ We just plain got intimidated out of a 6♥ contract, that's all. South says, "Nope. All I have to do is lead a diamond for my partner to ruff, and his heart queen is still good. Besides, my 6♠ bid beats 6♥ anyway." I throw the cards in his face and walk out. Just then I hear North whisper to South (my girlfriend says I have very acute hearing) "I told you not to stack the deck against the sore loser." So I walk back.

I wonder if they play bridge in the intensive care ward? The Caltech Bridge Club meets every Monday night at 7:15 in Winnett Lounge. Everybody (except perhaps Wei-Hwa) is welcome; call Jeff Goldsmith at x2818 for details.

*Editor's note: The previous story is fictitious. Wei-Hwa does not, in fact, have a girlfriend. Any applications would be appreciated. Call x1540, e-mail whuang@cco, or mail to MSC 542.*

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The Financial Aid Office (515 S. Wilson, Second floor), Career Center, Dean of Student's Office, and Office of International Programs have a two page tax guide available. Feel free to stop by any of these offices and get a copy.

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Alternating Saturdays  
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Note: Tax volunteers are sometimes unavailable as scheduled

# Bridge Without Sam

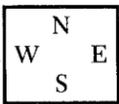
by Jeff Goldsmith

Another Funny Ending

The power of squeeze menaces in end positions is often surprising. Being careful to maintain menaces, even with no clear endgame goal in mind, can reap unexpected dividends.

Playing OKBridge against decent opposition, I end up playing a hand with a dozen kibitzers watching from around the world.

- ♠ A10874
- ♥ AJ73
- ♦ Q3
- ♣ K2



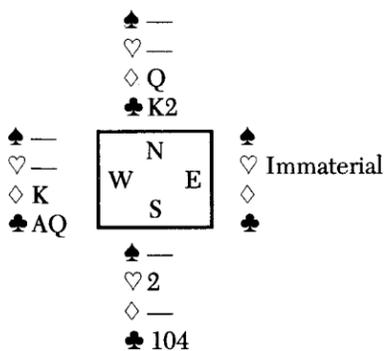
- ♠ K9
- ♥ Q10982
- ♦ A52
- ♣ 104

WEST	NORTH	EAST	SOUTH
1♦	Double	Pass	2♥
3♣	4♥	Pass	Pass
Pass			

West leads the ♠Q. With only 17 high-card points outstanding, West rates to have nearly all of them, so I'm a favorite to make five, losing only one trick in each minor. If all goes well, I can pick up spades and lose only to the ♣A. To this end, I win the first trick in hand and lead the ♥10. Whoops! West discards a high diamond spot and I have to reconsider. I want East to be forced to win his trump trick at my leisure, rather than his, so I duck this trick. He wins, and continues with the curse of Scotland.

West's distribution is probably 3-0-5-5, so the contract is cold if I win this, draw trumps, and run spades. I won't be able to get back to my hand without using up the last trump, though, so I will never get my club trick. But West will have a lot of cards to keep; I may be able to put pressure on him in the endgame, I don't see the position just yet, but it is time to make him pitch lots of cards.

I win the ♦A, take a spade finesse immediately, and draw all the trumps ending in dummy. I run spades next (perforce), and watch the discards. This is the end position:



It turns out that I can get my club trick, after all. I ruff the diamond and lead a low club to the king, at which point West surrenders.

Strangely enough, West could not do anything to prevent my overtrick in the end. Had he stiffed his ♣A, I could have just exited with a low club and claimed. It was a funny sort of squeeze; West was either squeezed out of apparently superfluous winners or the low card guarding his ♣A. None of the menaces had an entry, nor was there any threat of setting up a trick I didn't deserve in the first place. The squeeze was just there to maintain control of the hand. Funny thing, that.

The Caltech Bridge Club meets every Monday night at 7:15 in Winnett Lounge. Everybody is welcome; call Jeff Goldsmith at x2818 for details.



# entertainment



## ADAM VILLANI: MEDIA GUY

by Adam Villani

### My Meeting With John Waters

As the world-renowned Media Guy, I recently received an invitation to an advance screening of the upcoming film, *Serial Mom* from cult director John Waters, famous for such campy, subversive, and raunchy fare as *Pink Flamingos*, *Hairspray*, and *Cry-Baby*. It was great; not only was the screening held at a prestigious screening room in Beverly Hills, but there was a question-and-answer session with the director after the film!

The audience consisted of just eight college students from around L.A., so I actually got to speak with John one-on-one. He was a really interesting guy to talk to, and even though he's a reasonably successful director, he wasn't condescending. He was very responsive to the questions we asked, which ranged from "How do you plan to market this film?" to "Do you still get turds in the mail?"

The movie itself is a worthy addition to the Waters oeuvre. The plot involves a perfect June Cleaver-type mom (Kathleen Turner) who turns out to be a crazed serial killer. Also appearing in the film are Sam Waterston, Ricki Lake, Patty Hearst, Traci Lords, Mink Stole, Suzanne Somers, and the punk group L7. Superficially, the movie could be seen as an attempt by Waters to appeal to the mainstream—but that's what makes it all the more subversive, placing insanity in middle-class American suburbs. The movie isn't incredible, but it's quite funny in parts and certainly interesting. It'd be good to see if you're in the mood for a comedy but don't want to have your intelligence insulted. The movie opens in April.

### Exceedingly Short Movie Reviews

Please forgive the terseness of these reviews;

they are my impressions of films that are better summarized in other newspapers.

*The Remains of the Day*: This is a very good movie, which immediately draws the viewer in, features unparalleled performances by Anthony Hopkins and Emma Thompson, but unfortunately runs out of gas 15 minutes before the end, closing on a disappointing note for a film that is extremely good for the first hour and a half.

*The Age of Innocence*: This is a magnificently photographed film, whose beautiful attention to detail unfortunately distances the characters from the audience. Martin Scorsese was so busy crafting an elegant film that he forgot he was dealing with actors. Nevertheless, the visual feast is worth seeing by itself.

*In the Name of the Father*: I was expecting this to be a good movie, and it turned out to be excellent. This true story of an Irishman falsely imprisoned, along with his friends and family, for an IRA bomb attack is edited with almost the intensity of *The Fugitive*, but is also very emotionally compelling.

*The Piano*: Contrary to my sister's scathing review of this film in a previous issue of the *Tech*, I found this to be quite a good movie. The cinematography, costumes, and score were excellent, but the only really believable character was the 9-year old daughter. The relatively weak script was written by the same woman who did an admirable job directing this striking film.

### Administrivia

I wanted to make it clear that in the most recent Media Guy, I wrote only the last item, on the Winter Olympics. Also, please don't suggest subjects for me to write about; I don't do requests. Be sure to check out my Media Guy Special Oscar Preview article later in this issue.

continued from page 3

## Option

in other options can take courses in SES, but in the future they may also be able to enroll in an undergraduate minor, which is under consideration.

While students may enter the option in their junior year, the sophomore year is preferred. For undergraduates, the option requirements would be:

1. SES 101ab (3-0-6). "A two-quarter introduction to issues past and present in science, ethics, and society," with the emphasis in the first quarter on historical study (e.g., cosmology, understanding and control of life, big science) and, in the second quarter, on philosophical study (e.g., theories of scientific method, how scien-

tists come to replace one theory with another, the moral and political problems raised by science and technology).

2. SES 102abc (2-0-7). To develop the student's area of concentration and to prepare him for a research paper, the first two quarters will consist of a tutorial, with extensive reading. In the third quarter, these research topics will be probed and drafts of the paper discussed and criticized. (The Caltech Archives are a good resource for this purpose.)

3. SES 103 (1-0-0). A lecture series featuring speakers from within and outside Caltech, held 4 times per quarter, that provides an introduction to past and present SES-related topics.

4. Four advanced history courses, two of which must be in the history of science (currently in existence

but to be cross-listed under SES).

5. Four advanced philosophy courses, two of which must be in philosophy of science or ethics.

6. 45 units of science, math, and engineering courses.

Who will most likely elect to participate in SES?—Primarily students with interests in the fields of law, business, medicine, or public affairs, although the option should give a solid preparation for graduate work in history or the philosophy of science as well. For students intrigued by science beyond the nuts and bolts, this new option provides a vehicle for exploring the place of science in the swirl of past and present societal concerns.

This week, we won't bug you to write for the *Tech*. But if you've helped us out during our year as editors, please come to our final *Tech* staff meeting today at 12:15 P.M. in the Coffeehouse and have some free pizza and soda. It's the least we can do.

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# An ADAM VILLANI: MEDIA GUY special

## Judgment Day: Media Guy's 1993 Movie Armageddon

### Part 2—The Oscars

by Adam Villani

The 1993 Academy Awards will be broadcast the evening of March 21. One must always keep in mind that the Oscars don't really judge what is the "Best Picture," or who the "Best Actor" is, but they are a decent indicator of what some of the best or most significant product is emerging from Hollywood studios.

It's a favorite pastime of movie reviewers to both predict the Oscars and to pompously announce what the results would be "If We Picked the Oscars." I am no different. For each category, I'll name my prediction for the winner, what my vote would be from those films nominated, and my personal choice to whom I would grant the award, regardless of whether they were nominated.

In Brief: *Schindler's List* wins big.

#### Best Picture

**Prediction:** *Schindler's List*, with 95% probability. This is definitely the most talked about film of the year, and even the President has urged people to go see it. Don't waste your money betting on anything else.

**My Vote:** *In the Name of the Father*. This movie really moved me, and was extremely well-made, with an outstanding performance by Daniel Day-Lewis.

**My Choice:** As elaborated in a previous column, the best film of the year was *Like Water For Chocolate* (from Mexico), and the best English-language movie of the year was *What's Eating Gilbert Grape*.

#### Best Director

**Prediction:** Steven Spielberg for *Schindler's List*. The Academy feels Spielberg's paid his dues. The only possible upset might be from Jane Campion for *The Piano*, but this is unlikely.

**My Vote:** Jim Sheridan for *In the Name of the Father*. The riot scenes, in particular, were very credible, yet gripping.

**My Choice:** Alfonso Arau for *Like Water for Chocolate*.

#### Best Actor

**Prediction:** Tom Hanks for *Philadelphia*. He gets the P.C. vote, the "playing a guy with a disease" vote, and the "we like him and he hasn't won yet" vote.

**My Vote:** Either Anthony Hopkins in *The Remains of the Day* or Daniel Day-Lewis for *In the Name of the Father*.

**Honorable Mention:** The guy who played Benoit in *Man Bites Dog* (Belgium). This was truly a sick role, and he made it come alive.

#### Best Actress

**Prediction:** Holly Hunter, *The Piano*.

**My Vote:** Emma Thompson in *The Remains of the Day*. Hunter was also quite good, but these are the only two of the nominees I've seen here.

**Honorable Mention:** The woman who played Tita in *Like Water for Chocolate*. I'm sorry, I can never remember names of people in foreign films.

#### Best Supporting Actor

**Prediction:** Everybody's talking about Tommy Lee Jones in *The Fugitive*, but I think Ralph Fiennes as the diabolical Nazi Amon Goeth in *Schindler's List* might be able to pull an upset. Not only did he do an outstanding job, but he played a real person and put on weight for the role, two things the Academy voters really like.

**My Vote and Personal Choice:** A tie between Fiennes and Leonardo DiCaprio's dead-on portrayal of a mentally retarded youth in *What's Eating Gilbert Grape*.

#### Best Supporting Actress

**Prediction:** Winona Ryder for *The Age of Innocence*. Unfortunately, this was not only one of Winona's weakest roles, but nowhere near one of the best things about the movie. But everyone in Hollywood is buzzing on this, for some reason.

**My Vote:** Anna Paquin in *The Piano*. Simply the best child actor I've ever seen.

**My Choice:** Paquin, or Gong Li in *Farewell My Concubine*. Gong really ate up the screen.

#### Art Direction

**Prediction:** This is one award that could definitely (and deservedly) go to *The Age of Innocence*. This film was magnificent, and simply radiated wealth and decadence. *Schindler's List* could usurp this award, though, depending on how big its sweep of the awards is.

**My Vote:** *The Age of Innocence*.  
**Honorable Mention:** *The Nightmare Before Christmas*

#### Cinematography

**Prediction:** *Schindler's List*.

**My Vote:** *The Piano*.  
**My Choice:** *The Age of Innocence*. This was truly the Academy's robbery of the year, failing to nomi-

nate the most incredible cinematography in years. This film could be used as the centerpiece of a cinema class.

#### Editing

**Prediction:** *Schindler's List* could have enough momentum to take this one, but it'll have fierce competition from *In the Name of the Father* and *The Fugitive*.

**My Vote and Personal Choice:** *The Fugitive*. This crew of film editors managed to make one of the most exciting films I've ever seen. Excellent pacing.

#### Costume Design

**Prediction:** A toss-up between *The Age of Innocence*, *The Piano*, and *Schindler's List*.

**My Vote:** *The Piano*'s costumes were more original, but *The Age of Innocence* was more lavish and spectacular. I would probably go with *Innocence*.

**Honorable Mention:** *Farewell My Concubine*.

#### Foreign Language Film

This category is especially hard to predict, since voters must have actually seen all the nominated films (unlike the other categories), and has produced some big surprises in the past. I predict that the epic masterpiece *Farewell My Concubine* (Hong Kong) will win, but anything is possible. My vote would go to *The Wedding Banquet* (Taiwan). These are the only films nominated for this category that I've seen, but I seriously intend to see *Belle Epoque* (Spain) and *The Scent of Green Papaya* (Vietnam). They're playing at the Laemmle theaters on Colorado.

#### Makeup

*Philadelphia* might win this one, but *Schindler's List* could take this in its inevitable sweep. Note that *List* is the only film nominated in this category that I've seen. *Farewell My Concubine* should have definitely been nominated and probably should have won. It's quite rare for a film to jump out at you in this category, but *Concubine* was exceptionally beautiful in this regard.

#### Original Screenplay

**Prediction:** *The Piano*, with a remote chance of *Philadelphia*.

**My Vote:** I've only seen *The Piano* and *Sleepless in Seattle*, so I'd cast my ballot for *The Piano*.

**My Personal Choice:** *The Wedding Banquet*, or the surprisingly good *Groundhog Day*.

#### Adapted Screenplay

**Prediction:** *Schindler's List*, though *The Remains of the Day* has a chance of winning here.

**My Vote:** The screenplays nominated were hardly exceptional, but I'll go with *In the Name of the Father*.

**My Choice:** *What's Eating Gilbert Grape* was pure magic. It took what could have easily been a sappy tear-jerker and really made it shine.

#### Sound

**Prediction:** *Schindler's List*, but it might go to something else.

**My Vote:** Who cares? I'll give it to *Schindler's List*, but *In the Name of the Father* really excelled here and should have been nominated.

#### Sound Effects Editing

**Prediction:** *Jurassic Park*

**My Vote:** I only saw *The Fugitive*, but from seeing how people were blown away by *Jurassic*, I'd say there's a good chance it deserves the award.

#### Visual Effects

**Prediction:** Oh come on, this one's going to *Jurassic Park* just as sure as Best Picture is going to *Schindler's List*. *The Nightmare Before Christmas* was ingenious, entertaining, and technically brilliant, but had the misfortune of coming out the same year as the movie that basically played God, bringing the dinosaurs back to life.

#### Music (Original Score)

**Prediction:** Either Dave Grusin's very popular music for *The Firm*, or John Williams' typical score for *Schindler's List*.

**My Vote:** I haven't heard the score to *The Firm*, but of those nominated, I'd pick *The Remains of the Day*'s intriguing yet subdued music.

**My Choice:** ARRGHH! Why wasn't Michael Nyman's awesome score for *The Piano* nominated? They answer this question in the movie: it's not ordinary music. It was original, beautiful, and probably the most popular minimalist-influenced work (besides Gorecki's Symphony #3) of all time, yet got snubbed. Typical of the Academy.

#### Music (Original Song)

**Prediction:** Bruce Springsteen's song for *Philadelphia*, because people "in the biz" like him and are afraid of Neil Young.

**My Vote:** The only one I've heard is the god-awful one from *Sleepless in Seattle*. I generally like Neil Young, but I haven't heard the song yet.

**My Personal Choice:** U2's "Stay (Faraway, So Close)" from Wim Wenders' *Faraway, So Close*, or Bono's title tune from *In the Name of the Father*. U2 is one of the only popular bands today with any originality.

One might ask, "How can Media Guy get away with predicting the Oscars when he hasn't seen all the movies?" I just keep in mind that the Academy isn't an amorphous blob, they're real people, mostly living in L.A., whose past behavior makes them somewhat predictable. For example, something like 44 percent of the time, the longest movie nominated has won Best Picture. Period pieces tend to win Best Costume. And so on.

Perhaps a more important indicator is to just listen to the "buzz" coming out of Hollywood, because it generally comes from the people who do the voting. Read the Calendar section of the *Times*, the *L.A. Weekly*, *rec.arts.movies*, etc. If you're really daring, read some trade magazine like *Variety* or the *Hollywood Reporter*.

For my next trick, I'll predict the Oscars for the categories in which neither I nor probably anyone else reading this column have seen any of the nominees: the Documentaries and Short Subjects.

**Documentary Feature:** Either *The Broadcast Tapes of Dr. Peter*, or *The War Room*.

**Documentary Short:** *Defending Our Lives*.

**Animated Short:** *The Wrong Trousers*.

**Live Action Short:** *Black Rider*.

P.S. If you'd like a complete, detailed list of all of this year's Oscar nominations, just send me e-mail at [adamm@cco.caltech.edu](mailto:adamm@cco.caltech.edu).

Turn in your C.L.U.E.  
reviews. Thanks.

—Flora

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Jim's Journal by Jim

Today I played basketball again today.

Today I got home from the copy store around 4 p.m.

I took Mr. Peterson outside today.

Today Ruth and I ate at a nice restaurant.

Today I accidentally broke a bowl.

Today I went to the store to buy a bowl.

Today I got up early.

Today when I came home I saw the mailman putting mail in the apartment's mail boxes.

Today I was looking out my window.

Today I was walking down the street when I saw a guy fixing his bike.

Today Ruth and I went for a walk.

Today Steve told me he was going to be on the local TV news.

Steve was on the local TV news today and we all went to his place to watch.

Today I got up and fed Mr. Peterson.

Tony and I played basketball again today.

Today I realized I was not good at lay-ups, so he won by doing a lot of lay-ups.

When I got up it was 6 o'clock.

For a second, I couldn't tell if it was morning or night.

But after a while she was lying belly-up and feeling right at home.

The waiter brought us some water and said he'd be right back.

He didn't come back for quite a while and Ruth said, "I wonder if he forgot about us."

But he eventually came and took our order.

It smashed against the sink as I was washing it.

It was a ceramic bowl that was microwave-safe and it was the only one I had.

Little slivers of it flew everywhere and I tried to pick up every last one of them.

I picked one out and asked the cashier if it was microwave-safe.

She said it should say on the bottom, then flipped and said, "oh-our price tag covers it up!"

So she took a few seconds to pick off the price tag, which was the kind that doesn't come off very easily.

I worked with Joel, who at one point said, "This place is nowhere, man."

Then I went home and Mr. Peterson, who was napping on the chair arm, looked up at me for a second or two, then went back to sleep.

I stood there and waited for my mail.

He asked if I was expecting something important today and I said not really.

I would pick a certain person and follow them as long as I could see them.

One person came from inside a building next to mine, then kept walking up the street until all I could see was a speck.

"Hey, could you gimme a hand here?" he said.

I held a wrench while he tightened a screw.

He thanked me, then described how he almost got in an accident a few minutes ago, which is why he stopped to look over his bike.

Ruth stepped to pet him and said, "Hi, fella, and he seemed friendly."

I leaned down to pet him and he took off running, and Ruth said, "You scared him off, Jim!"

He said he was shopping at the grocery store when the news crew was asking people questions.

I asked him what for and he said they just wanted his opinion about some food-related news story.

"But that doesn't matter," he said. "What matters is I'm gonna be on TV."

We all clapped and cheered, and Steve bowed. Tony said, "You were hardly on two seconds!"

One time she caught her ear to fly in-side-out and it stayed that way until she rubbed it again and it popped back to its normal position.

When she was done eating she started washing her head.

She licked her hand then rubbed it on the side of her face a few times.

Jim's Journal by Jim

Today I was calling somebody when Mr. Peterson jumped up on the counter.

She walked right in front of the phone, so I couldn't dial the number.

I paused while waiting for her to move, but she just stood there looking at me.

I put her on the floor and started dialing again, but she jumped up and stood in the same place.

Today after I got up I ate a bowl of cereal.

I didn't have anything to read or look at while I ate, so I stared at the cereal box.

In small printing on the side of the box was a toll-free call if I had any questions about the cereal.

I stared at it during almost the entire time I ate and couldn't think of any questions I would ask.

Today I went to Ruth's place and she answered the door shumped over in her bath robe.

"I have a cold," she said.

She also said she didn't know if it would be a good idea to visit her.

"You don't want this cold," she said.

Today Ruth called me and asked if I'd pick up some cold medicine for her.

I said I would and headed out to the store.

They didn't have the kind she wanted, so I got a different brand.

I showed up at her place and explained that they were out of the kind she wanted and she said, "Whatever."

Today Ruth was telling me about a bad dream she had.

She was working at the dentist's office, like she normally does.

Except her dentist was Frankenstein's monster.

"It was so scary I woke up in the middle of the night screaming," she said.

Ruth is finally getting over her cold.

"I'm so happy it's over with," she said.

Then she noticed that she was all out of Kleenexes.

She flattened the box and put it in the trash.

Today I was walking home from work after dark.

I noticed it was a clear night and you could see all the stars.

I decided to lie in the snow and stare up at the sky for a while.

I started to get sleepy and felt like I didn't have the energy to get up.

Last night I was sitting in bed staring at the ceiling.

I wasn't tired, so I just sat there.

I felt Mr. Peterson jump up on the bed and walk up my legs.

Then she came up to my face and I could feel her cold, wet nose touch my face.

Today Steve came over and said, "I'm bored."

We sat around for a while.

"I'm still bored," Steve said.

Ruth said today that my apartment could use some cleaning.

"I don't mean to sound rude," she said, "but man are slabs."

She said she'd help me clean, and that it would be no big deal.

We started by vacuuming and dusting. (Ruth vacuumed and I dusted.)

I finished cleaning my apartment today.

I scrubbed the bathroom and the kitchen and everything.

I even scrubbed out the kitchen cabinets.

When I was done I had a lot of energy left, but I took a nap anyway.

Today I was just sitting around watching TV.

Tony came over and said, "Hey, Jim, how's it goin'?"

We sat and watched TV for a while.

He started sniffing and said, "Did you clean or some thing?"

Today was trash day.

I got out a big plastic garbage bag to fill it with all my trash.

I tried to open it, but it wouldn't open.

I realized I was trying to open the wrong end, so I tried the other end and it opened right up.

I washed a load of clothes today.

I didn't have anything else to do today, so I just sat in the basement laundry room and waited.

Before I put my clothes in the dryer I emptied the lint filter, which is my favorite part of doing laundry.

When I brought the clothes back up to my apartment, Mr. Peterson jumped on top of them and got comfortable.

Today Ruth and I went out to eat.

This place is pretty good," she said.

I went into the bathroom, where somebody had etched something on the wall.

"This place sucks!" it said.

Jim's Journal by Jim

Today I went to the grocery store to buy a whole bunch of food.

I got milk, bread, frozen peas, apples, hot dogs and some macaroni & cheese.

While I put all the food away, Mr. Peterson jumped in the bag and stayed there for a long time.

I cooked up some macaroni & cheese with chopped-up hot dogs in it and watched TV.

Ruth came over to visit today.

We were just sitting around when we noticed Mr. Peterson sneezing.

Ruth reached out to her and said, "God bless you, Mr. Peterson."

Mr. Peterson ran away as fast as she could.

Steve and I were walking around today when we heard a funny speaking noise.

It was coming from a squirrel who was sitting next to a dumpster.

We noticed he was looking up at another squirrel who was eating an english muffin wrapper.

Steve said, "It would appear the one below wants the other one's english muffin wrapper."

Today at the copy store a mom and a little kid came in.

They looked at the rack of pens, scissors and stuff.

After a while, the mom said, "Are you ready to leave now, Peter?"

And the little kid said, "Okay, let's leave," in a very adult way.

Today I decided to go visit my mom back in my hometown.

"Jim, well, hello," she said.

She told me I came just in time because she was cooking a big meal.

I went into the dining room and my grandma said, "Jim! well, hello."

(I didn't know my grandma would be there, too.)

It's nice not having anything to do.

It snowed today.

My mom said she liked having me around so I could shovel the driveway.

Even though it was cold, I got so warm shoveling that I took my coat off.

Today my high-school friend Dave came over.

He said he and some of our other friends from high school were going to a movie tonight.

He wanted to know if I wanted to come.

I said I would.

I went to a movie last night with Dave and his friends.

Afterwards we went to Hardee's and Gene squashed ketchup packets with his fist.

Dave and the rest of them laughed and people looked at us like we were crazy.

I had an okay time, but I was glad to get home.

Today Steve told me he's been talking to Mike about working together.

He said they thought of a funny TV sitcom idea.

It would be set in Hell," he said.

He said they were thinking of writing a script for the pilot episode.

Today Steve and I went over to Mike's.

They were planning to write a TV sitcom that takes place in Hell.

"Hey," Mike said, "Let's call it 'Hell in a Handbasket!'"

Steve laughed and said, "Perfect!"

I went over to Mike's place today.

He and Steve were there to write a TV script.

But we mostly just sat around talking.

"What I'd really like to write is a super-hero movie," Steve said.

It was really cold outside today.

I stayed inside and read a book.

Mr. Peterson sat right under my light, so I couldn't see.

I moved her out of the way and she squawled at me and went right back under the light.

I ran into Steve today.

I asked him how his TV script writing was coming along.

"I don't know," he said, "we haven't done much on it."

Then he yelled, "Look out! Just as a guy on a bicycle came barreling down the sidewalk."

Today Ruth and I went out to eat.

This place is pretty good," she said.

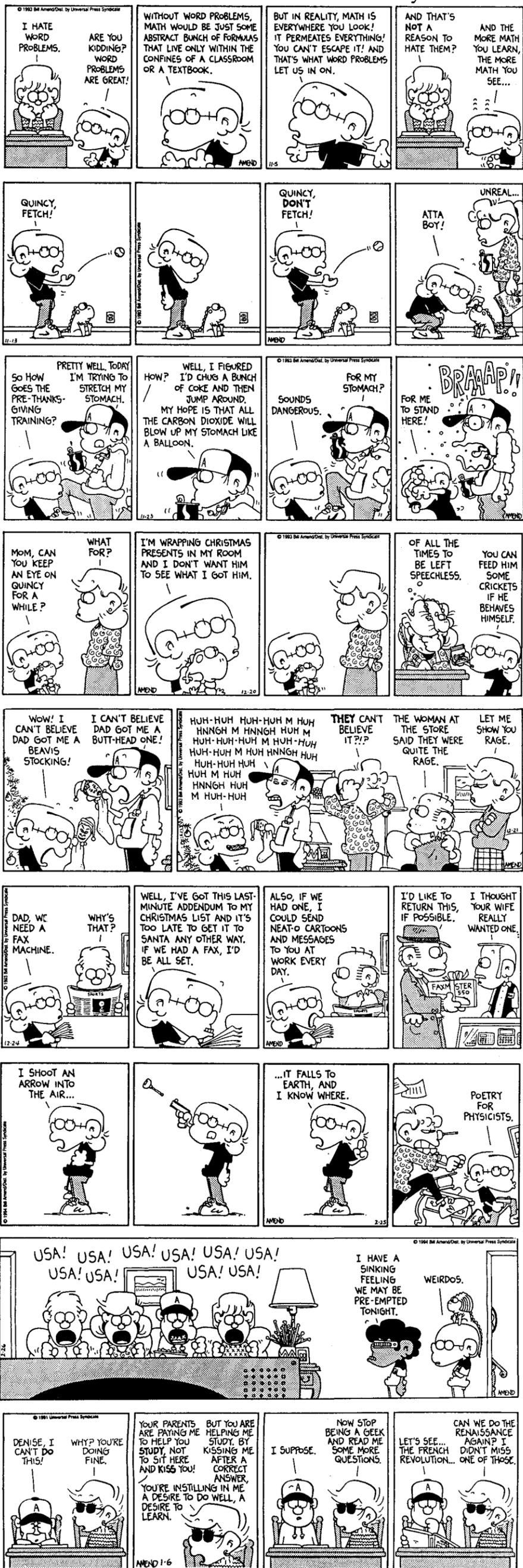
I went into the bathroom, where somebody had etched something on the wall.

"This place sucks!" it said.

This page of comic strips is dedicated to long-time staffer Zack Berger, who asked the famous question "So, do you guys have lots of comics stock-piled, or what?"

FoxTrot

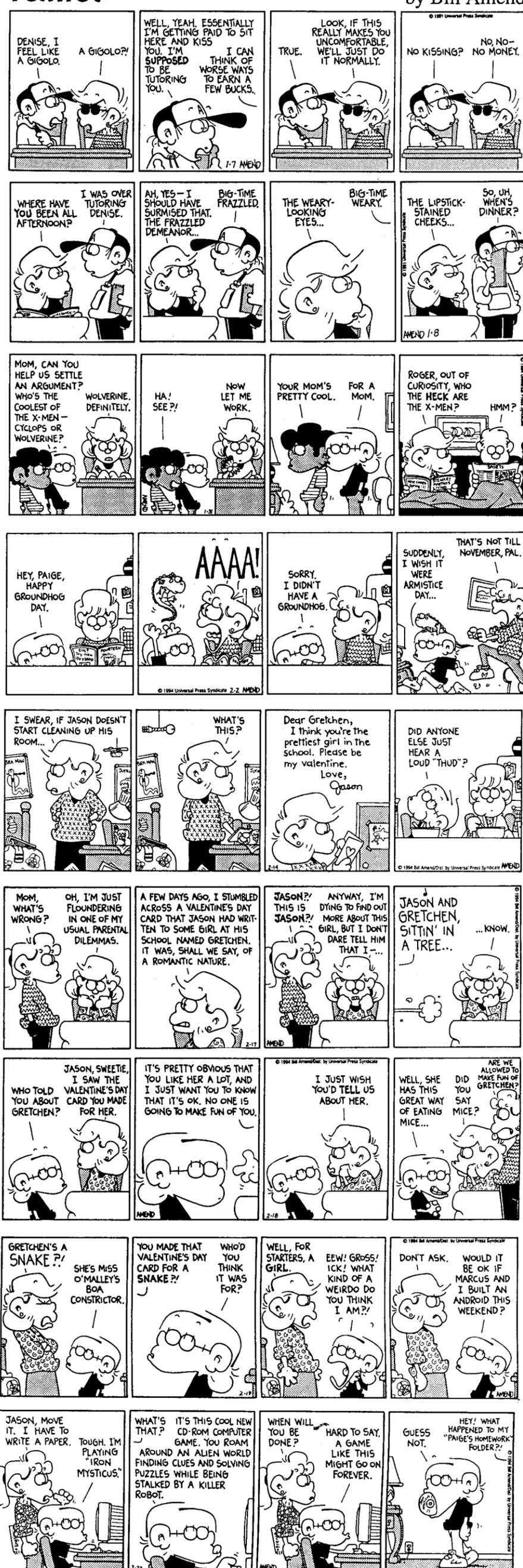
by Bill Amend



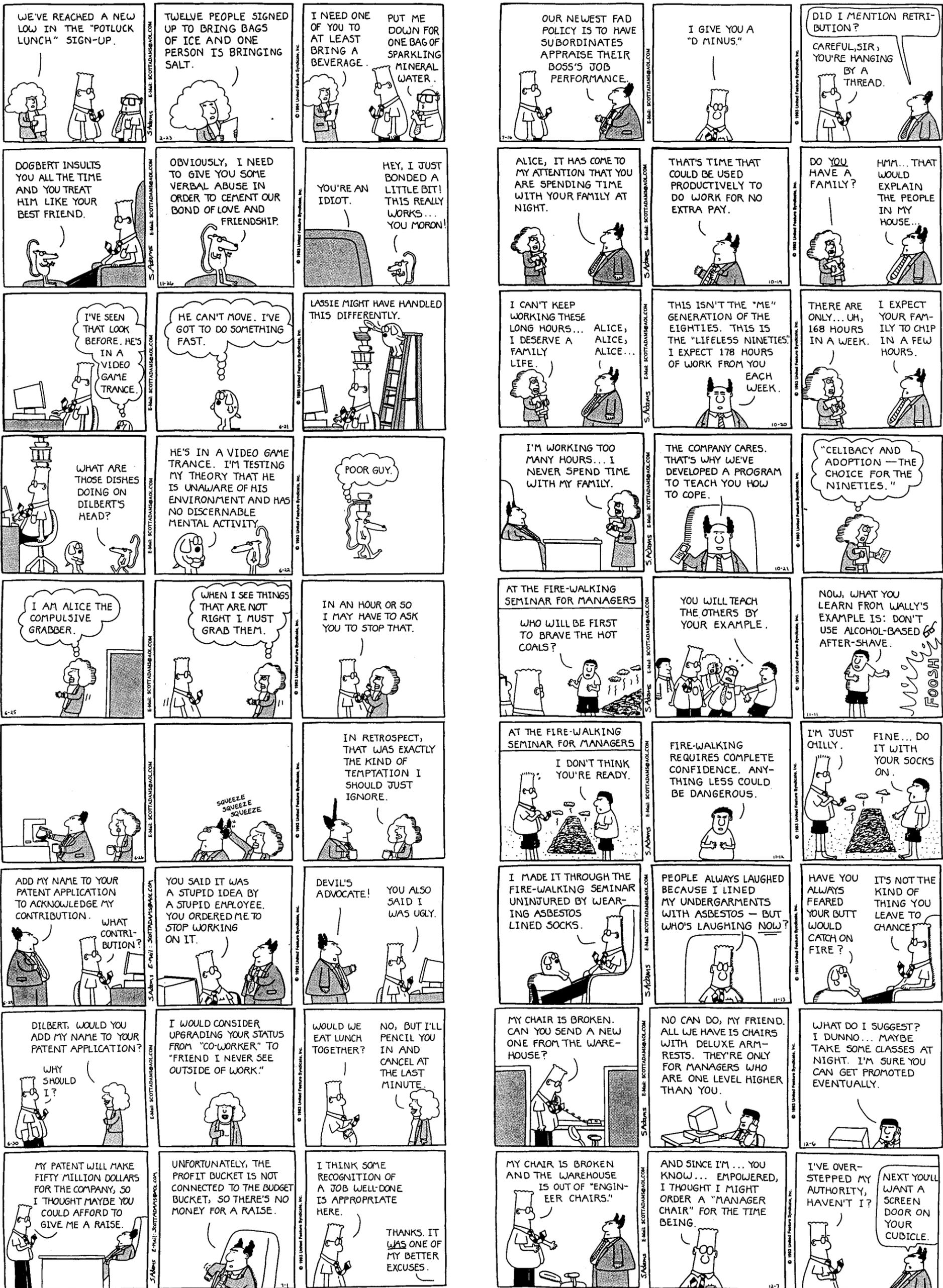
I would like to thank everyone who drove the Tech to the press each week, especially Heidi Suttan.

FoxTrot

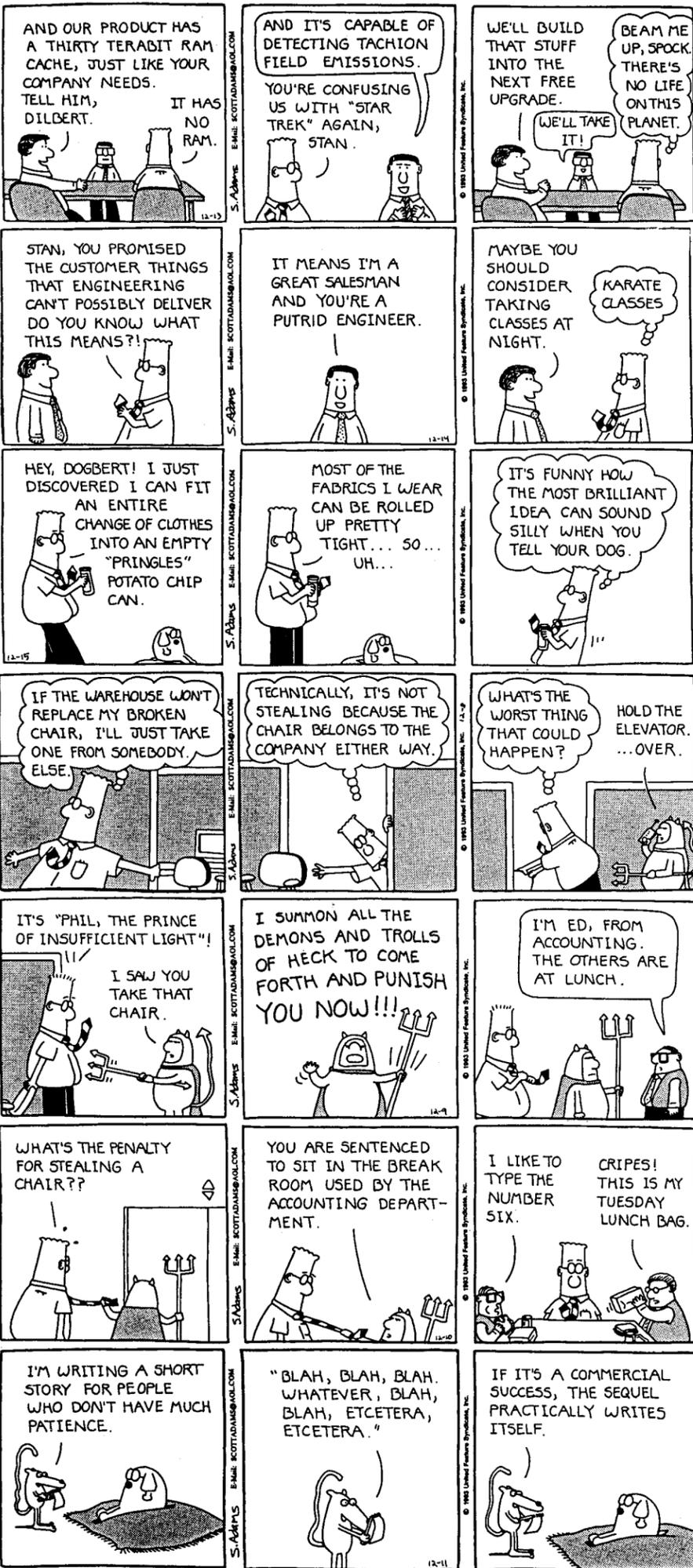
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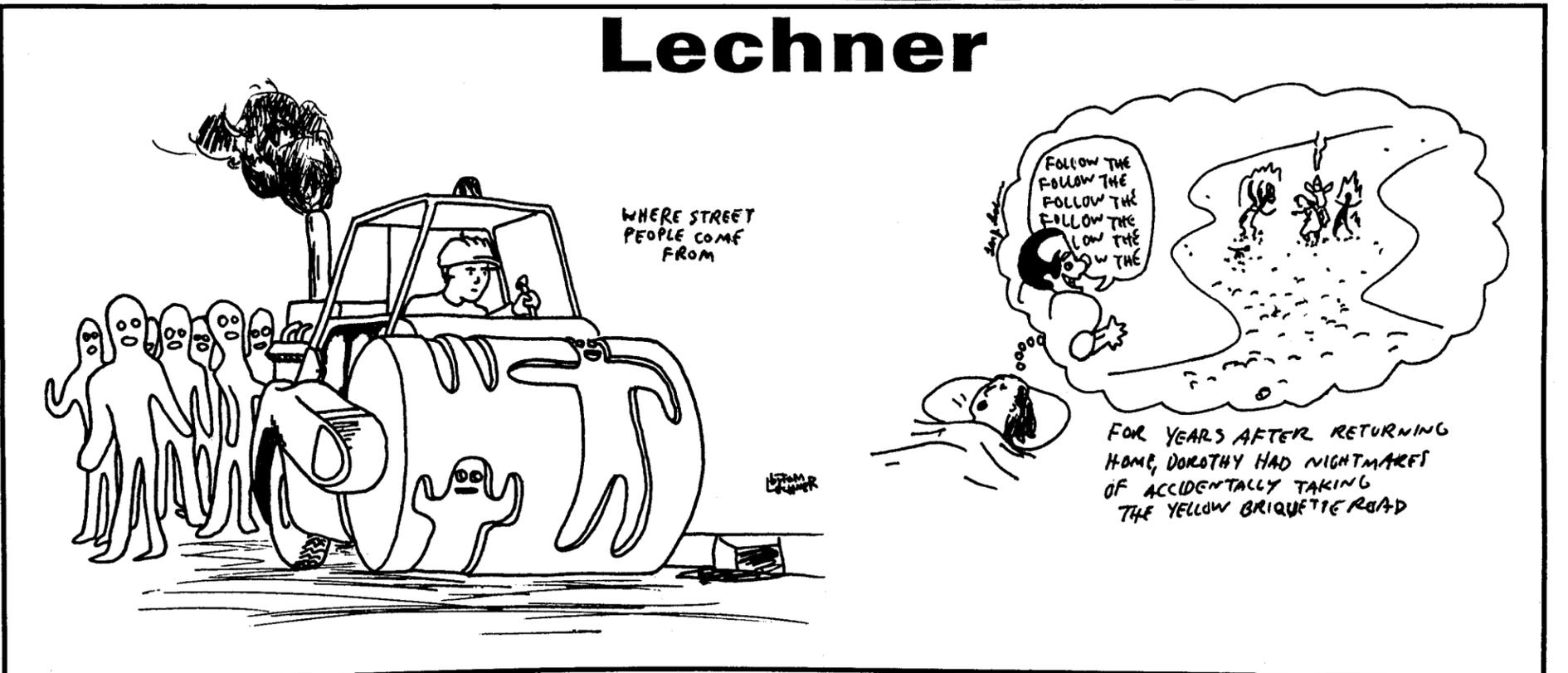
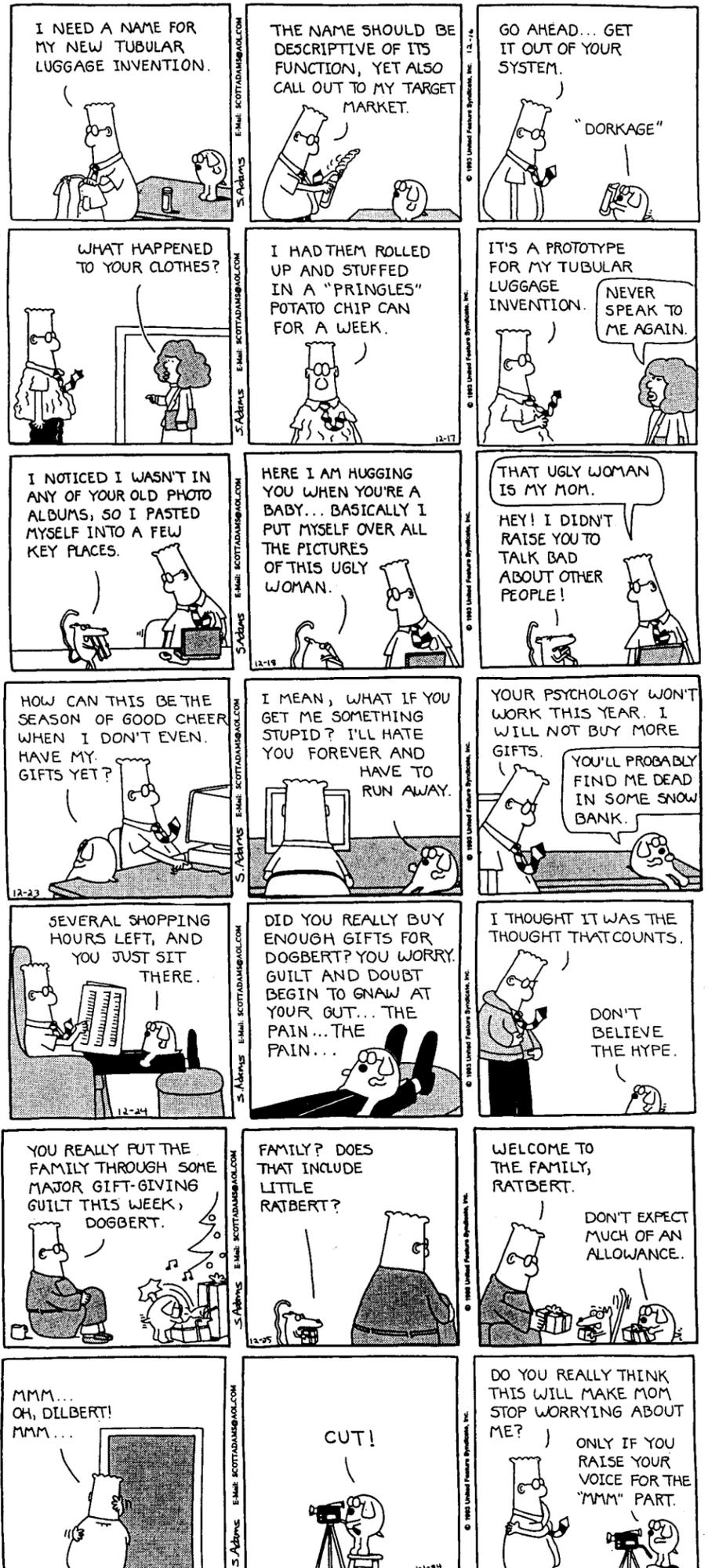
This page is dedicated to Gypsy Achong, Crimes & Incidents Editor, the only staff member I've never met.



This page is in memory of Momo "When you gonna run more Dilbert?"  
 Jeng, master of current events and long-time staffer.



Big kudos to Hall Daily, our advisor, & Michael Kantner, our grad student.



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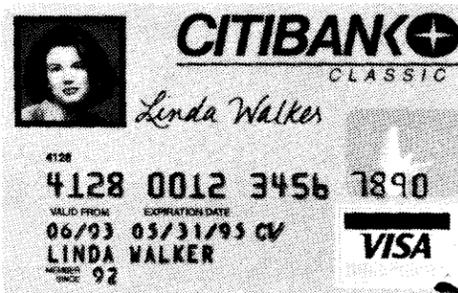
*Subject suffering from Credit Card Theft Nervosa.*



*Subject after receiving Citibank Classic Visa Photocard.*

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# Official results of the 1993-94 California Tech Survey

**by the Editors**

This is the third annual Best of Tech Survey, and with over one-hundred responses, it is by far the most successful. Special thanks go to Steven Skovran and Adam Villani for drumming up submissions. There were countless nominations in each category, so the winners tended to have less than a dozen votes.

**Caffeinated beverage**  
*best*

- 1. **Dr. Pepper** 18
- 2. Mountain Dew 11
- 3. Iced Tea/Jolt! 5

Dr. Pepper won this category handily. Other popular choices include random coffee, Thai tea, and Laurent's blood at the Dabney Christmas party.

*worst*

- 1. **Mountain Dew** 12
- 2. Coffee 7
- 3. Dr. Pepper/Diet Coke 5

**Chinese Food**  
*best*

- 1. **Panda Inn** 9
- 2. Golden Lake/Sam Woo 7
- 3. Yellow Ranger (Trini) 3

There were over 30 restaurants and people nominated in this category. Note that the Yellow Power Ranger is, in fact, Vietnamese.

*worst*

- 1. **Panda Express/ \$1 place on Colorado/ Golden Lake**

**Coffeehouse shake**  
*best*

- 1. **Chocolate** 9
- 2. Avocado Lust/VOOMS 5
- 3. Popsicle Stick/ Pooh Bear 4

There were 48 nominees in this category, including Haggis. We are very sad to see that Kick In The Kidneys only got one vote.

*worst*

- 1. **Slavery Whip Mix** 8
- 2. Avacado Lust 3
- 3. Lots of things 2

Wart Thomas's Slavery Whip Mix dominated this category.

**Coffeehouse waiter**  
*best*

- 1. **Steve Skovran** 12
- 2. Wart 8
- 3. John Haba 7

Former manager Shane Sauby came in a close 4th.

*worst*

- 1. **Shane Sauby** 6
- 2. Andrew Grangaard 4
- 3. Elef 3

**Hamburger**  
*best*

- 1. **Tommy's** 8
- 2. Islands 7
- 3. In-N-Out 6

*worst*

- 1. **TFM** 21
- 2. McDonald's 5
- 3. Jack in the B&T/ Tommy's 4

This is the beginning of TFM's domination of the "Worst Food" category.



**Mexican Food**  
*best*

- 1. **Super Antojito's** 14
- 2. El Toroto 6
- 3. Merida 3

Other choices included "any fish taco in Baja," Mike Herrera, and Cheech Marin.

*worst*

- 1. **TFM** 13
- 2. Del Taco 8
- 3. Super A's/Taco Bell 3

**Pizza**  
*best*

- 1. **Pizza Hut** 10
- 2. Fraedo's/Numero Uno 8
- 3. Tarantino's 7

Pizza Hut?

*worst*

- 1. **TFM** 24
- 2. Domino's 8
- 3. Little Caesar's 6

Another big win for TFM.

**Sandwiches**  
*best*

- 1. **Eddie's Market** 21
- 2. Subway 13
- 3. Sub Station 3

*worst*

- 1. **TFM** 7
  - 2. Subway 3
  - 3. Pie 'N' Burger/AM-PM 3
- TFM really has it rough.

**Thai food**  
*best*

- 1. **Pataya** 19
  - 2. President Thai 11
- Nothing else even comes close.

*worst*

- 1. **Pataya** 9
- All the rest have 1.

**Grocery store**  
*best*

- 1. **Ralph's** 37
  - 2. Pavilion's 9
  - 3. Von's/Trader Joe's 8
- The Angel Grove Gym and Juice Bar was also mentioned.

*worst*

- 1. **Pavilion's** 12
- 2. Ralph's 5
- 3. O'Dom's 4

**Music store**  
*best*

- 1. **Tower** 39
- 2. Pooh-bah's 13
- 3. Penny Lane 4

This marks the first year that Tower has beat out Pooh-bah's for best music store. Sad.

*worst*

- 1. **Tower** 7

**Doctor**  
*best*

- 1. **Tom Baker** 5
- 2. Stu Miller 3

This section was interpreted in a wide variety of ways. Dr. Dre was another popular answer.

*worst*

Nothing really came out as a clear winner here.

**Local band**  
*best*

- 1. **Stale Urine** 16
- 2. Blew 6
- 3. The Ninth 5

Apparently, many of our respondents have never heard SU play...

*worst*

- 1. **Stale Urine** 16
  - 2. Blew 5
  - 3. Milkhouse Vandals 3
- ... or maybe they have.

**Movie theater**  
*best*

- 1. **AMC Old Pasadena** 15
- 2. ASCIT Movies (with FruSound!) 7
- 3. Mann's Chinese/Rialto/UA Old Pas. 5

*worst*

- 1. **UA Old Pas./Academy** 11
- 2. ASCIT 7
- 3. That Chinese porn theatre on Colorado 3

continued next page

## Journal of Theoretical Works

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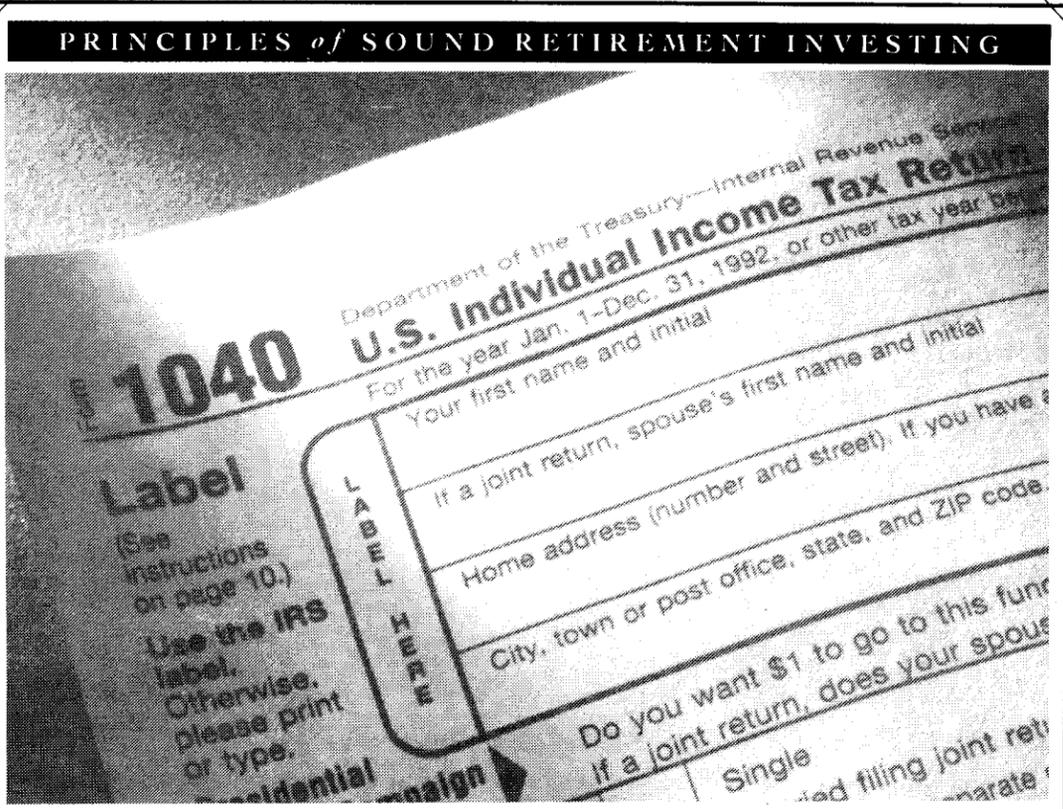
<b>Radio station</b> <i>best</i>		favorite is "Anyone who kills without reason."
1. KROQ	23	
2. KLSX	5	
3. sKURV/Power 106	4	
<i>worst</i>		
1. KROQ	10	
2. KPWR	5	
3. KFSG Fanatic Shite Gods	4	
<b>Romantic composer</b> <i>best</i>		
1. Beethoven	6	
2. Brahms/Wagner	4	
3. Chopin/Tchaikovsky	3	
Other nominees include Andrew Dice Clay and the Beastie Boys.		
<i>worst</i>		
1. Wagner	4	
2. Mozart	2	
Not a very exciting category. Also-rans: Billy Ray Cyrus, Meat Loaf.		
<b>Superhero</b> <i>best</i>		
1. Batman/Buttman™	8	
2. Vikas Nanda	5	
3. Wolverine/Green Ranger/Haggis Lad	3	
A number of profs were nominated, including Koonin and Sharp. My		

<i>worst</i>		
1. Superman	7	
2. Batman	5	
3. Haggis Lad	3	
<b>Tech feature</b> <i>best</i>		
1. Ernest Explains	18	
2. Dilbert	13	
3. Media Guy	7	
We got a lot of sarcastic replies to this one, including "the margins" and "works well as packing material."		
<i>worst</i>		
1. Media Guy	12	
2. Ernest Explains/Bridge Without Sam	4	
3. Jim's Journal/Puzzle Column	3	
<b>TV show</b> <i>best</i>		
1. The Simpsons	17	
2. Star Trek: The Next Generation	7	
3. Mighty Morphin Power Rangers/Seinfeld	6	

<i>worst</i>		
1. 90210	8	
2. ST:TNG	6	
3. The Power Rangers	5	
<b>Caltech professor most likely to cop the Nobel action</b>		
1. Harry Gray	11	
2. Ahmed Zewail	6	
3. Kip Thorne	4	
We were dismayed that Dr. Dervan himself didn't make the cut.		
<b>Caltech Class</b> <i>best</i>		
1. Ge 1/Me 18	3	
No one seems to like any classes.		
<i>worst</i>		
1. Ch 1	8	
2. Ma 1/Ch 3	7	
3. Ph 2/Ma 2/AMa 95	6	
Our old friend Ch 1 won, as expected. The core seems to be unpopular, as usual.		
<b>Classroom</b> <i>best</i>		
1. Salvatori Sleep Room 11		
2. 22 Gates	9	
3. 201 E. Bridge	5	
The Salvatori Sleep Room, a pe-		

rennial favorite, wins again.		
<i>worst</i>		
1. 22 Gates	7	
2. 119 Kerckhoff	6	
<b>Best college to recruit new Caltech administrators from</b>		
1. USC	13	
2. PCC	7	
3. Caltech	5	
My, USC sure got a lot of votes. Wish we could get some o' them tasty USC admins...		
<b>Nicest on-campus architecture</b>		
1. The Athenæum	8	
2. South House Complex	8	
3. Dabney House	6	
Other strong contenders include "I perversely like Guggenheim."		
<b>Toilet</b> <i>best</i>		
1. SAC	11	
2. East Bridge, 1st Floor (room 100)	3	
Many other toilets were nominated. A surprising number of them are located in Ricketts.		
<i>worst</i>		
1. Dabney Hall	4	
Nothing else comes close.		

<b>Best pickup line</b>		
Hi, I'm Scott Noble.		
Got any Italian in ya? You want some?		
My parents voted for Ross Perot.		
Huh-huh... so... huh... you want to do it?		
TOMMY: Can I walk you home?		
KIMBERLY: You know, anything can happen.		
VICTIM: I want something greasy, disgusting, and bad for me.		
AGRESSOR: How about me?		
If I paid you a dollar, would you, like, do it with me?		
The word of the day is legs. So let's go back to my place and spread the word.		
<i>(These are merely the editors' favorites.)</i>		
<b>Font</b> <i>best</i>		
1. Palatino	14	
2. Times	6	
3. Helvetica	5	
We are extremely disappointed in our readers' taste in fonts, as these are uniformly boring or poor examples of the typographical craft, especially the putrid champion.		
<i>worst</i>		
1. Chicago	6	
2. Times/Helvetica/Geneva	5	
3. Barcode/Courier	3	



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## Stop for pedestrians, eh?

by Kate Finigan

I consider myself a lover of the outdoors. I love the feel of the wind on my face when I ride my bike. And there is nothing like a brisk, morning walk when the air is so crisp and clear that you can almost touch the San Gabriel Mountains. That's why it wasn't difficult for me to start riding the bus to work. I discovered, however, that the adventure really begins when the MTA drops me off at my stop, and my Rockports hit the sidewalk.

When I first started commuting, I would get off at Del Mar and Chester, an intersection that many in the Caltech community use. It's the same one where motorists do not slow down when they see a pedestrian in the intersection. It's the same one where one of our students was hit several months ago. You might think that pedestrians are wrong to use that intersection, but they're not—according to the Pasadena Police Department, a pedestrian has the right of way in any intersection, marked or not.

Because I hope to live long enough to collect what may be left of my Social Security, I opted for safety. I decided to get off at Del Mar and Hill where there was a clearly marked intersection, with wide white lines and a stop light to insure a safe crossing. Safe at last.

Wrong! I've lost count of the number of times motorists did not see me or other pedestrians getting ready to cross at the corner. They saw the green traffic light and that's all they saw. They did not see the pedestrian crossing light. It would take only one hit to maim someone. I checked with the PPD and they are powerless unless a police officer witnesses the infraction. Too bad for this little foot pusher. I was mad as heck, to say the least, when another beautiful Pasadena morning was marred by someone nearly running me over at the crosswalk.

What could I do, I wondered, with this new-found frustration? How could I deal with this infringement on my physical and mental well-being? The PPD already told me where it stood. I decided to write an article and to start with the community I work in.

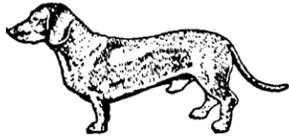
I started thinking about my drive to work. I took all the recommended safety measures—I'd lock the doors, fasten my seat belt, adjust the rear view mirror, and tune in the radio—Ah ha! There's where the risk came in. I would become oblivious to pedestrians, cyclists, skate borders, and now, rollerbladers. We all shared the same roadways. I had forgotten one thing: consideration for those not traveling in a car.

I think that we all forget what it is like to be a pedestrian. It is frustrating and frightening to be nearly hit by a car. I wonder how children, senior citizens, or the handicapped feel when they are almost hit because someone didn't take the time to stop and look both ways. Remember when you were a little kid learning to cross the street? Most of you were taught to stop, look both ways and then cross. This still applies to driving. Recently, while crossing at Del Mar and Hill, I was in the middle of the intersection, not just stepping off the curb. Not one car, not two, but three cars completed a right turn in front of me before I had finished crossing the street, not three feet from me.

Vehicles on the public streets are not the only problem. The carts on campus clip along at a terrific pace—I saw a driver run into a lamp post and knock off the base. He got out of his cart and carefully readjusted the base, got back in his cart and went on his way. I wondered, had he hit a person, would he have been able to readjust a leg or an arm so easily?

Let's all try to be a little bit more considerate and aware, of pedestrians, cyclists, rollerbladers, skate boarders, and motorists alike.

The Tech editors would like to use this space to thank all the graphic elements that have made our product unique:



The Bronzed Dachshund



James McLeod, 2



The Guy

We would especially like to thank Dr. Peter Dervan for allowing us to run his glorious photo so many times.

My number one reason not to firebomb Tina Brown's house the next time I'm in the Northeast:

"Geddy Lee's insectile screech may be the most abrasive voice in rock history."

—The New Yorker, March 7, 1994

VIVA MEXICO!

turned to look at their colleague, and were paralyzed as well. The heroes took the three rifles (Buttman™ kept his bow) and headed out of the room.

They came upon a vast, dark, vaulted chamber. In the middle of the room stood a high throne. "All right, Swount, we're ready!" Gell-Man shouted, his voice echoing throughout the room. Something moved on the throne. A huge, insectoid being dove upon the heroes from the top of the throne. Kurt, Gell-Man, and Andrew fired furiously, but the bullets could not penetrate Swount's chitinous skin. The

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\* Note: asterisks denote new announcements.

Notices

**\* MCAT's Are Here!**—The new 1994 Medical College Admission Test packets have arrived! You may pick up yours in the Career Development Center, Room 08, Parsons-Gates. Hurry, they are due on March 25. They can be submitted as late as April 8, but there will be a late fee. If you have questions, call the CDC at x6361.

**Caltech Golfing Club**—Due to an almost complete lack of activity in the Caltech Golfing Club, it went into hibernation at the end of the last school year. Since we received plenty of funding from the GSC, we are obliged to attempt a restart. Last year, we were very unsuccessful at organizing events that fit the schedules of our membership. Thus, we will be setting up a "ladder," where people can play other members at times of their own choosing. If you are interested in joining the Golfing Club or if you want more information, please contact Bob Blake at mail code 127-72, x6576, or reb@puck. If there is enough interest, a meeting will be scheduled.

Events & Services

**\* Tickets for Sunset Boulevard**—Tickets for the April 12 performance of Sunset Boulevard will go on sale March 15 at 10:00 A.M. For more info, call Chris at x6163. This event is brought to you by the Catech Y.

**\* Free Money!**—With all of the hullabaloo about ASCIT disintegrating, downsizing, or at the very least taking over the world, some of you may be wondering about the solvency of your clubs and organizations. If ASCIT won't take care of all of the pork in your budget, who will?

The Student Investment Fund certainly won't. However, we will give some money to various organizations and clubs who ask for it. Each year, we give away a total of approximately \$5000 to various clubs. We spend the entire year hard at work, so that we can feel like benevolent philanthropists once a year. The SIF has been investing in stocks, bonds, and options year-round and, by our bylaws, we have to give away some of our money.

By this time, you would probably like me to stop the playful banter, and find out how to get cold, hard cash. There will be forms in the copier room in the SAC, and in the lobby of Page House. You need to pick up a form, and fill it out, and pray that we give you money.

Being in the business of investing, we pay for durable goods, not budget deficits, or pizza for your meetings. If you've been to a CCSA party lately and seen their spiffy fog machine and lights, we helped fund that. We bought a bunch of books for the Alpine Club library. We paid for a four-track recorder and microphones for the Jam Room, and funded many other things. We typically try to fund items that would not be financially possible without our help, and those that benefit the most

# Events and Notices

members of the Caltech community. Barring that, we fund what we think is cool.

So fill out a form for your club, and you just might get a chunk of \$5000. The forms are due at noon on April 4th, in the SIF mailbox (Mail Code 142-58), with absolutely no exceptions.

If you have any questions, feel free to ask the Fund Chairman, Remy Hathaway. He can be reached at x1666, Campus Box 109, or as remyh@cco via e-mail. For that matter, if you're interested in the SIF, contact him, he's hard up for new members.

**Caltech Velo—The Caltech Bicycle Club** meets every Thursday at noon in Red Door Café. The club organizes all types of rides, both road and off-road rides, for all skill levels, from novice to advanced, including collegiate racing. All cyclists are welcome. We lead the following weekly rides, all meet in front of Winnett Lounge:

- Monday 8:00 A.M. 25 miles, moderate pace
- Tuesday 12:00 P.M. 10-15 miles, easy pace
- Wednesday 2:00 P.M. Off road ride

Also other harder rides not listed. Please contact the club in advance to double check the time of the ride. We also lead other rides which are not listed. For more information, contact Michael Kantner at x4882 or e-mail to cycling@cco.caltech.edu.

**Gay/Lesbian/Bisexual support group** meets the first and third Tuesdays of each month at 7:30 P.M. in the Health Center Lounge. This confidential meeting is open to all Caltech community members looking for a supportive context in which to address questions and concerns about sexual orientation. Refreshments are served. For more information, call 395-8331.

A women's psychotherapy group for graduate and undergraduate students will be meeting weekly on Tuesdays from 12-1:30 P.M. at the Counseling Center beginning mid-March. The group will examine a range of issues relevant to women's lives and experiences. For more information of to schedule a pre-group interview, call the Counseling Center at (818) 395-8331.

**Caltech Alpine Club "Sit and Chat"**—Bring a sack lunch to the patio outside the north end of Keck Laboratory on Wednesdays from 12 to 1. Talk about mountains, the weather, and outings, past and future.

**Friday Prayer**—Prayers organized by Caltech Muslim Students are held in the Caltech Y lounge at 12:15 P.M. every Friday.

**Mass**—Catholic campus life includes Mass on Sunday at 10 A.M. (Winnett Lounge) and on Thursday at 8:15 A.M. (Y Lounge), Rosary at 11:15 A.M.

daily in Winnett 1A, and various spiritual development groups and study circles. For more information contact Fr. Brian Wilson at x6212.

**Bible Study and Discussion**—Every Wednesday at noon in the Y lounge. Bring your own lunch. For more information call Mike Gerfen at x4866.

**OpenLine**—A group made up of students, staff, and faculty from many different departments on campus, and from a variety of ethnic and cultural backgrounds. We are both an action group and a discussion group. Our agenda is very flexible and is solely determined by what people in the group suggest. Drop by any meeting and say hello! We meet from noon to 1 P.M. on Tuesdays in the Y Lounge (2nd floor Winnett, feel free to bring your lunch!). Remember, we *always* welcome new people, at any time of the year. Hope to see sometime! For more information contact Gary Mines at x6542 (gam@xhmeia.caltech.edu).

**Caltech SEDS** (Students for the Exploration and Development of Space) meets every Sunday evening at 9 P.M. in 107 Downs to discuss and plan for its \$4 million satellite proposal. Help is needed from undergraduate and graduate students, and advising is needed from research fellows, faculty and staff. Experience with space hardware or with the specific experimental subsystems (gamma-ray astrophysics and atmospheric chemistry) is not necessary. All members of the Caltech and JPL community welcome. Contact Ben McCall at x2902 or bjmc@cco.

**Israeli Folk Dancing**—Sundays in Winnett lounge. Beginning instruction starts at 7:30 P.M., intermediate at 8:00 and open dancing goes on from 8:30 to 10:30. For information call Nancy Macmillan at 795-3655. Admission is \$2.00.

**Ballroom Dancing Class**—Thursdays in Dabney Hall, beginning at 6:30. The classes are free. No partner or experience is required. For more information, contact Sharon Kadar, x6971, sharon@seismo.gps.

**Scottish Country Dancing**—On Wednesdays in Dabney Lounge from 8 until 10 P.M. Beginners are welcome and no partners are needed. For more information call David Hills at 354-8741.

**Music with James Boyk**—Pianist James Boyk gives a performance each Wednesday from 4:30 to 6 P.M. in Dabney Lounge. The performance is open to the public and free of charge. Feel free to come late or just skulk. For more information call x6353.

**Open House**—The office of International Student Programs (ISP) would like to invite interna-

tional students, scholars, and the Caltech community to coffee, tea, and conversation every Wednesday from 4-6 P.M. Take a break and relax with friends at ISP (Lloyd House on the Olive Walk).

Lectures & Seminars

**Practical Safety in A Research Environment**—A presentation for non-technical personnel, Friday, March 11 at noon in Winnett Lounge. Topics will include acid accidents, lasers, radioactive materials, and other exciting dangers. Presented by the Safety Office and the Organization for Women at Caltech.

John Stachel, from the Office of History and Technology at U.C. Berkeley, will give a lecture entitled **Out of India: Bose and Einstein** in the Judy Library on Friday, March 11 at 2:00 P.M. Refreshments will be served.

Scholarships, Internships, & Competitions

**SERS Scholarship**—The U.S. Dept. of Energy is sponsoring the Science and Engineering Semester (SERS) to encourage undergraduate students to continue their studies in science and engineering. For more information on the SERS program, contact: Science and Engineering Research Semester, 901 D Street, SW, Suite 201 A, Washington, D.C. 20024; (204)488-2426. **The application deadline is March 15.**

**Travel Grants for Undergrads**—Undergraduate students who are U.S. citizens or permanent resident may apply for the International Student Identity Card (ISIC) Travel Grant. Students involved in any type of educational program including study, work, voluntary service, internships, etc. in one of the developing nations of Africa, Asia, or Latin America are eligible. This grant will cover round-trip expenses from the U.S. to the overseas program. Last spring one Caltech student was awarded this grant. The application deadline is March 15. Check with the ISP office (x6330) for further details.

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

The **Orville Redenbacher Second Start Scholarship Program** is offering 30 \$1000 scholarships to qualified applicants. To be eligible you must be

30 or over, and a part- or full-time undergraduate or graduate student at an accredited college or university. All applications must be **postmarked by May 2, 1994.**

The Ebell of Los Angeles is announcing the competition for the **Ebell/Flint Scholarship**. Applicants must be U.S. citizens who are legal residents of Los Angeles County, must attend an accredited college or university in Los Angeles County, and must be registered to vote here if eighteen years of age or older. Applicants must be unmarried, full-time undergraduates and have a G.P.A. of 3.25 or above. Applications and all supporting documents must be returned to the Financial Aid office by April 22, 1994.

The **John Gayles Educational Trust** is offering financial assistance to Canadian and American citizens. Selected students will receive up to \$2500. A minimum GPA of 2.7 is required. Deadlines range from April to November. For an application, send a SASE (#10 envelope) to: The John Gayles Education Fund, Attn: R. James Cogle, Administrator, P.O. Box 4808, 712 Riverside Drive, Fredericton, New Brunswick, Canada E3B 5G4.

The **American Scandinavian Foundation of Los Angeles (ASF/LA)** will distribute five \$1,000 scholarship awards to upper division and graduate students enrolled in accredited schools in the Greater Los Angeles Area. **Students must have a demonstrated interest in Scandinavia.** Applicants must have strong academic qualifications and must show financial need. Two letters of recommendation, appropriate transcripts, and the completed application are due by **March 15, 1994.**

**SPIE—The International Society for Optical Engineering** is once again offering scholarships for 1994. Applications may be made for the funding of any activity in the field of optics. They will be judged on the basis of the long range contribution which the granting of the award would make to optics and optical engineering. Awards WILL NOT be made on the basis of need. Applications must be received at SPIE Headquarters by **April 1, 1994.**

**Sunkyoung's second annual Global Leaders of Tomorrow Essay Contest** has begun. Registration forms and information are available in the Financial Aid Office. Essays must be received by Sunyong no later than **April 4, 1994.**

The Danville-Alamo Branch of the **American Association of University Women** is offering several scholarships, from \$500 to \$1000. Applicants must be female students from the San Ramon Valley, and must have a junior or senior standing in September 1994. For application packets, write: Mrs. Janet Lather, 703 Contada Circle, Danville, CA 94526. The completed application **must be postmarked by April 5, 1994.**

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*Michael Neely  
Christopher DeLeon  
Michael Bonetto*



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