

Flaws Claimed in EMF Studies

from Public Events

PASADENA—Hundreds of scientific studies on the biological effects of electromagnetic fields may be invalid, researchers suggest in a letter to be published in the March 9 issue of the journal *Nature*. Controls have been inadequate to prevent contamination by magnetic particles in most lab studies done in this field, which includes millions of dollars of federally funded research.

The effects of magnetic contamination could explain some of the cellular changes that had been attributed to electromagnetic exposure, according to scientists at Oregon State University and the California Institute of Technology. The findings of their research do not mean such electromagnetic fields, or EMFs, are either safe or unsafe, the scientists say, and the research also has little relevance to human epidemiological studies on the effects of EMFs.

But it does indicate that lab re-

search—about half of a five-year, \$65 million federal program on the possible biological effects of EMFs—may be of questionable scientific value, said Michael Nesson, a research associate in the Oregon State University Department of Biochemistry and Biophysics.

"We're waving a red flag about what may be causing any supposed biological effects from these electromagnetic fields," Nesson said. "It is important, because our studies question the usefulness of many or most of the published laboratory research on the biological impact of EMFs."

Low-level electromagnetic fields, such as those caused by overhead power lines, household appliances, cellular telephones, and other aspects of industrialized culture, have undergone intense scrutiny in recent years. There is concern they may cause various health problems, including cancer.

The jury is still very much out,
SEE MAGNETITE, ON PAGE 7

ASCIT Minutes 3/6/95

Present: Jon, Dave, Tom, Laura, Kanna, Greg, Francois "Willie" Penn, Melissa, Gavin, Ken, James, and Jenny.

⇒ Immediate Business: Kanna gives checks to Fleming and Blacker for multihouse funding. Francois and Jenny leave.

⇒ We discuss sources of funding for ASCIT donuts. James says, "People from off campus don't usually walk five blocks for donuts." James, you'd be surprised.

⇒ Ken has a question of pamphlets for ski resorts. They're in the Y.

⇒ We approve the salary of the Tech editor and business manager 6-0-2. Varied complaints about the nature of INSIDE WORLDS surface.

⇒ Laura borrowed a phone from the ASCIT office. James got his phone line on Tuesday.

⇒ Laura talked to Gina Armas - we want to terminate the lease on the old copier because it would be easier to hand copy anything than put it in that copier. Except INSIDE WORLDS.

⇒ Damian shows up and requests a check for \$50 for S.P.E.C.T.R.E. for second term. People are confused about how often we pay S.P.E.C.T.R.E., and we agree to pay him later.

⇒ Dahzi shows up and asks for \$150 for frosh night out. We're \$600 in debt, and Kanna promises to get back to him later in CS2. Kanna wants everybody who reads this to contact her at kannas@ugcs before coming to ASCIT meetings and requesting money.

⇒ Ken is blowing on his straw and making weird noises. Nobody cares.

Officer Reports:
Melissa: (shrug)

⇒ Laura got a package of forms and

charged the delivery to the ASCIT account.

⇒ Greg still needs a date for the formal. May 20 is out because of concerts that weekend (and performers are the only ones who own tuxes, anyway). Greg called a bunch of places for pricing and scheduling.

⇒ Random people walk by SAC 64 with laundry. It's 10:28 PM.

⇒ Greg's recommendation is Doubletree on the 12th. Later (post-meeting) we discovered that the Doubletree was already booked for all suitable weekends. Greg is looking into numerous other off-campus possibilities, although the Athenaeum is still a possibility. Huntington Gardens is booked until next summer. We'll get a reservation there for the first May they have available. People argue over prices for the students, staff, and faculty.

⇒ Scott Noble strides by SAC 64.

⇒ Greg asks for a budget for the formal - how much can we afford for food and drink? Student affairs paid for the flowers last year. Last year's band was very good, and everybody agrees to try to book them again. No go-go dancers, though. Kanna asks how invitations will be handled. Ken finally finds a very unbalanced budget from last year and laughs at it. Greg copies it. He doesn't copy any INSIDE WORLDS, though.

⇒ Ken needs to know who the ARC representatives from Fleming, Dabney, and Ruddock are. If you are one of these people, contact Ken Walsh at kwash@cco.

⇒ A random bearded guy walks by the room, stops, smiles, waves, and moves on. It's 10:50.

⇒ Tom asks if there is anything we can do to keep attendance at BOC meetings. He wants to do I monthly

SEE ASCIT MINUTES, PAGE 2

SEDS Seek Artist

Caltech SEDS is searching for an emblem design for the GAMCIT Space Shuttle payload, scheduled for launch on July 20. SEDS is sponsoring a contest for this design, which is open to all members of the Caltech community as well as SEDS members across the country. The design should be fit within a 9 inch square (though it may be round or another shape) and should be adaptable to a patch of 3.5 inch diameter.

Emblem designs should be submitted to Ben McCall at Mail Code 111-58 no later than 5pm on March 22. All designs submitted will become property of Caltech SEDS, though credit will always be granted to the artist. Artist will receive a copy of the emblem which has flown aboard the Space Shuttle. For more information about the payload, or if you have questions about the contest, please contact Ben McCall at x2902 or bjmccall@cco. It is also suggested that you contact Ben McCall if you plan to submit a design.

Truth of Senate Bill S.314

by Royden Jones

No doubt many of you have heard recently of 'Senate Bill S.314', also called titled the "Communications Decency Act of 1995". For those of you that have not, the normal posting/letter generally calls the reader's attention to "A matter that is of the utmost importance to all people online", and then briefly describes the "Communications Decency Act" (generally in such terms as heinous, despicable, and unconstitutional) as a Senatorial Bill that would subject *all* forms of electronic communications, from public News postings to private e-mail to government censorship, as well as holding colleges and private industries such as AmericaOnLine and CompuServe criminally liable for the postings and e-mail of it's users. In particular, it focuses on pornography and the like, quoting recent cases (such as the one below) as back up for it. The postings then continue to call the proposal an affront to peoples privacy and the Constitutional right to Freedom of Speech. Then, the petition to be sent to Congress, the President, and the Media is brought up (see the end of this article for more information on the petition to stop S-314). Talk of the Senate proposal has spread over the net, appearing in nearly every Newsgroup and mailing list, as well as being sent around by many individuals. In addition to net resources, the topic has come up in Newsweek and on CNN. Before discussing the act and it's ramifications, some history as to how this came about should prove illuminating.

One recent court case that has earned some degree of notoriety, is that of Jake Baker (real name Abraham Jacob Alkhabaz), a University of Michigan student that posted short stories onto the forum 'Alt.Sex.Stories'. The story which led to his arrest was a brief first person fictional account of an episode of sexual torture and murder. When a Michigan alumnus in Moscow read the story, he noticed that the name of Alkhabaz's fictional victim was the same as a female classmate he knew. He then notified her and the campus authorities, who proceeded to

investigate and found several pieces of electronic correspondence with friends of his, indicating his interest in actually committing the crime. He is currently being held without bond, the charge being the federal felony of threat to injure. Recently Alkhabaz's attorney attempted an appeal of the no bail ruling, on the basis that violent felons (including murderers and rapists) are routinely released on bond, while Alkhabaz was being held for no basis other than his speech. It had even been previously agreed among the judge, US attorney, and Alkhabaz's attorney that Alkhabaz took no hostile action apart from his writings. Alkhabaz's attorney offered conditions for his release including house arrest, regular checks by the police, and frequent psychological examinations. The appeal was denied, and it has been said that the judge stated that his daughter wouldn't feel safe at the University of Michigan if Abraham Alkhabaz was released.

Cases such as the previous have lead Democratic Senator James Exon of Nebraska and Republican Senator Gorton of Washington to expand current FCC regulations on obscene and indecent audio/text to cover *all* content covered over *all* forms of electronic communications networks, in addition to placing criminal liability with the telephone networks and commercial online service. In other words, if any member of the Caltech community

SEE COMMUNICATIONS, PAGE 6

SEDS to Experiment in Space

by Ben McCall

Members of the Caltech SEDS (Students for the Exploration and Development of Space) have been working for over three years on the development of a Space Shuttle experiment to study gamma-ray bursts. This July 20th, their efforts will be paid off as they watch the Space Shuttle Endeavor carry their experiment into low earth orbit. Their experiment is called GAMCIT (Gamma-ray Astrophysics Mission at CIT).

The experiment, originally conceived in conjunction with Dr. John Grunsfeld (formerly a Senior Research Fellow at Caltech, currently aboard Endeavor), consists of a gamma-ray detector, an X-ray detector, and a Nikon F4s camera. While the Shuttle is in orbit, GAMCIT will monitor the gamma-ray background, looking for gamma-ray bursts. When a burst is detected, GAMCIT will store spectral and temporal data from

AIDS Prevention

by Adriana Lozano

The discovery of the HIV virus and that it leads to a deadly disease has had, and will continue to have an impact upon humanity. Thousands of people have died after developing AIDS; these deaths have led to a gradual awareness of the pernicious effects of this disease. Anyone can be infected by the HIV virus and develop AIDS, even if it is not the result of a sexual encounter. For the people who are infected with the HIV virus by medical error, rape, or as a result of deceit, AIDS must be quite devastating. The HIV virus is usually transmitted through sexual relations or intravenous drug users sharing needles. This is a disease that is begotten as a result of carelessness, and the idea that someone else's lack of inhibition can terminate one's life is terrifying.

The discovery that developing AIDS leads to the grave has caused many people to think about and

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Campus News

The Red and the Black

by Remy Hathaway, SIF Chair

Nineteen-ninety-four was a painful year for the Student Investment Fund, as it was for the investment community as a whole. We were heavily invested in small caps and the technology sector, which were both hit even harder than the broader market indices. As a result we ended up with a loss of about 500 basis points. We are looking for a better return this year through better asset allocation and broader diversification. Thankfully, we were not highly leveraged in Nikkei calls.

If the preceding paragraph was confusing, then you can consider yourself a newbie to investing. Just what were you planning to do with all of that money when you finally land a plumb job in Corporate America? Blow it all on fast cars and Rémy Martin Louis XIII? Or would you rather parlay it into fabulous riches, the likes of which only the Bill Gates and Warren Buffetts of the world see?

If investing interests you, and you would like to learn more about it, come to a meeting of the Student Investment Fund. We manage a fund that is currently worth about

\$190,000. We buy and sell stocks, bonds, and options, with no risk of our own money. The fund is there as a tool for the Caltech community, so that people can learn about investing, both fundamentals as well as more advanced strategies. We meet every Monday at 5 PM in Winnett clubroom #1.

For those of you who want to spend money, it is that time of year again. While 1994 was a net loss for us, disbursements are based on net worth rather than performance, so we will still be giving out about \$5000 this year.

For those of you unacquainted with SIF disbursements, every year we give away a chunk of our portfolio to deserving Caltech clubs and organizations. The purpose is to help clubs make capital purchases that would not be possible without our help. Last year, 16 groups requested a total of \$8849. We awarded a total of \$5868 to 15 of them.

Disbursement forms are available outside my door in Page House, room 225. They are due to me, or the SIF mailbox in the SAC by April 14th. We will make decisions by May 1st. Drop by and pick up a form, and feel free to ask any questions about disbursements, or SIF in general.

G. J. Wasserburg, in a delivery to President Everhart and Provost Koonin (with permission):

"I have been thinking about the state of academic affairs in the Institute. It certainly seems in terms of our history, our current state and considering the future, that the major issues we face are: 1) to attract, maintain and support an exceptional and creative faculty; 2) to attract and educate exceptional undergraduate and graduate students; 3) to carry forward exciting and imaginative research programs of the highest level. We are not in the business of general education or of providing a Sesame Street science program. These are important, but not our job. Caltech has achieved greatness in the past and must continue to do great things to justify its existence.

We are a very small school in the arena of science and technology. This arena has evolved and is much expanded nationally since we were founded so that there are now many large institutions contributing in these areas. We have left enormous scientific and technical footprints in the world. This is what we should continue to do. This cannot be done with weak or poor appointments. We must be big by being small.

Many years ago when I was visiting a professor in Germany and Switzerland, I saw a map of the United States. It was a general wall map with only major locations highlighted — New York, Chicago, St. Louis, San Francisco, Los Angeles, and the KALIFORNISCHE TECHNISCHE HOCHSCHULE shown! I think Harvard was on the map but I am not sure. That's our job: to stay on the map. Sorry, I don't have the map anymore, but it is your job to see that a subsequent printing has us on it."

Editor's Corner

From Wei-Hwa

This is my last issue as *de jure* dictator of *The California Tech*. Next term, I'll only be *de facto* editor. Just kidding. A few parting words:

If you think you detect a running gag, blame it on the president of Ricketts Hovse. In fact, you should go and defenestrate him right now.

Last year, the previous editors quoted *Moby Dick*. (In its entirety.) This is all you're getting from me:

"A good laugh is a mighty good thing, and rather too scarce a good thing; the more's the pity. So, if any one man, in his own proper person, afford stuff for a good joke to anybody, let him not be backward, but let him cheerfully allow himself to spend and to be spent in that way, and the man that has anything bountifully laughable about him, be sure there is more in that man than you perhaps think for."

I will give \$5.00 to the first person to tell me what novel that came from, which chapter it appeared in, and who the novel was dedicated to.

Our next meeting is on April 3 at 12:15 pm in the Tech Office, room 40 in the SAC! Have a nice break!

ASCIT MINUTES

FROM PAGE 1

attended/total # of meetings). James says, "Okay. Sure." Also, the IHC did not like Greg's proposal for weekend events. Presidents think that the big events should be staggered without going to Greg's system. Not like

people would be writing about these events in INSIDE WORLDS anyway.

⇒ Kanna asks about frosh night out. Melissa explains it to her.

⇒ Dave tries to give out personnel directories that he spent good time trying to acquire. Nobody wants them, though, and they're still sitting dejectedly on the table. Ricky Carson can have one if somebody wants to give it to him. Also, the ASCIT phone lines are going to be installed soon. David also asks people to check their mail in the mailboxes in SAC 64. James can't find his mailbox, and somebody points out that he's the Vice President (and his mailbox is with those of the general officers). Nobody finds an INSIDE WORLD in their mailbox.

⇒ James wishes he could explain what he did for 30 hours last week. Something about a Hitchcock movie. James got a new phone and a new answering machine with a seductive voice.

⇒ Jon says there's a student affairs staff meeting at 11 AM on 3/7/95 in Winnett, and he asks people to attend.

⇒ Jon asks everyone on campus *not* CONTINUED AGAIN ON MORE, PAGE 6

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YESS '95

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

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

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Letters to the Editor



More Feynman Reactions

Dear *California Tech*:

Let us settle this issue once and for all. The virtue of independence applies to purpose and to method. Are a man's goals defined, fundamentally, in relation to others? Are the means by which he carries them out?

The attempt to determine for oneself what are values and what are not by a process of inter-personal osmosis betrays an abject dependence on he who made these identifications afresh. This is dependence in regard to purpose.

The attempt to gain values by force or fraud—e.g., to presume to dispose of what is not one's own—betrays an abject dependence on he who did actually produce these values. This is dependence in regard to method.

Whatever trace of this latter form Feynman did possess, it was negligible, even unnoticeable in the full context of his character and social environment. Condemning him for this is akin to cursing a diamond found in the coal mine for an imperfect luster. But Feynman is not being condemned for whatever modicum of dependence he may have had. He is being condemned, as conveyed in my original and unanswered statement, for exactly the opposite—his intransigent independence, his refusal "to seek a sanction outside his own vibrantly alive intelligence."

Let his detractors name this as the true object of their antipathy, or let them see how petty are those they would otherwise name. At least let them cease the

egalitarian bromides. (The reader will observe that batological platitude is the sine qua non of the basely baseless—not the baselessly base.)

Eric Dennis

Dear *California Tech*:

Why Feynman is 'Worshipped'

After reading Mitra Hartmann's article of Feb. 17th and the spate of succeeding pieces, we want to offer a balanced defense of Feynman. We also want to express some ideas which we hope will clarify the debate.

We will begin by trying to answer a question raised by Ms. Hartmann, "Why does the culture of science worship such a malformed and malevolent personality...What is the appeal?"

Most people don't worship Feynman's personality, but are merely entertained by it. The physics community has a tremendous respect and admiration for Feynman because of his outstanding and brilliant work, his originality, his ability to inspire, his phenomenal clarity in teaching, his irreverence for the status quo, his deep desire to understand, his ability to penetrate to the root of things, his creativity and enthusiasm, his infectious love for solving problems, his mastery of all of physics....in short for his genius. There are some individuals who are so mesmerized by these aspects of Feynman that they actually think his insensitivity, his misogyny, his obnoxious behavior towards individuals, and his

egoism are also acceptable or even admirable. We're sure that such individuals do exist, but we have not met many of them and do not think that they represent the majority.

There are also some individuals who are so repulsed by Feynman's negative traits that they fail to see any greatness in the man at all. Ms. Hartmann, we think, tries to present a balanced picture, but ends up painting a negative one. Feynman was a human being, warts and all, just like the rest of us. He had an outstanding peak in the dimension of physics and troughs in several other dimensions of life. Certainly, we should be aware of a person's failings. However, we should not let this awareness shut us off from being inspired by their outstanding contributions.

Eric Dennis, in his reply to Ms. Hartmann, tried to convey to her that Feynman was motivated more by fun and creativity, than by any malicious desire to humiliate people. This is true, although it is also true that he was motivated by the egotistical desire to be seen as the smartest guy around.

Aimee Smith's article contained some politically-correct statements with little information content. One of the most outstanding had to have been, "Lastly, no matter how brilliant people on campus may believe Feynman to have been, we have no way of knowing that Mitra or anyone else here including staff aren't just as, or perhaps

even more, brilliant". Obviously, there is plenty of talent at Caltech among students and staff. Nevertheless, geniuses, in any dimension of life, are not a dime a dozen as Ms. Smith appears to suggest. As for the rest of her criticisms of Feynman, it seems to us that she is going even further than Ms. Hartmann in throwing the baby out with the bath water.

Rahul Sarpeshkar
David Kewley

Dear *California Tech*:

I haven't really followed all the hooha in the Feynman case (we already have one media circus going on in the LA court system!), but I did read the one letter concerning this on March 3 (John Lindal). It's refreshing to see someone who could qualify as a cyerpunk but chooses to show some responsibility. I just can't understand why some jerk would want to crash a complete infobahn just for the hell of it. And don't give me this <expletive deleted> about "because it's there". Christ, let someone bring down your telephone just when you start to feel excruciating chest pains and try to call 911. Those pathetic nimbuses may call themselves hackers, cyberjockies, etc;

but I have another name for people who paralyze the public arteries, concrete or electronic. I call them *terrorists*, and don't even think of trying to convince me otherwise; I've been around the block too many times to have the wool pulled over my eyes.

Furthermore, what goes around comes around, and I'm convinced that these malcontents will get it back, be it lawsuits, jail, or a good, well-deserved pummeling from a pissed off mail recipient. (Get the message?)

Oh, and about the inverted full glass on the flat table: That happened to me when I was a busboy during my college days 30 years ago. After receiving a few sharp warnings you can bet *that* customer never came back!

J. Alan Rosenstein

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

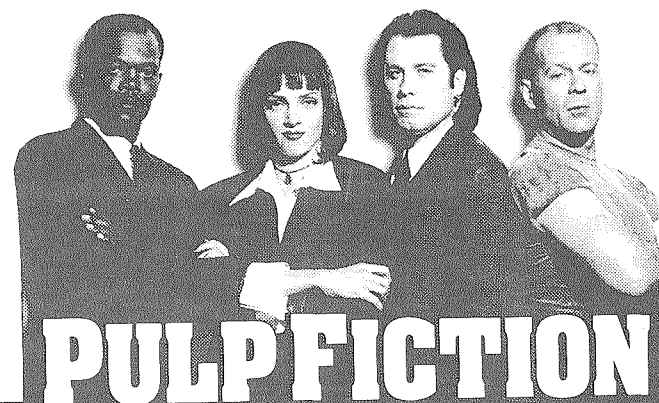
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Miss Saigon Showing at LA Music Center

by Krishna Gidwani

The Center Theatre Group is currently performing Cameron Macintosh's *Miss Saigon* at The Music Center of Los Angeles County. After having heard so much talk about this play, I finally saw it last Thursday. For those of you who do not know anything about *Miss Saigon*, too bad. All right, fine I'll give you a brief synopsis.

The play begins in Saigon, a few years after the Vietnam War. In the first act, the action primarily takes place in a local strip bar, run by a pimp known as 'The Engineer.' Chris and his friend John are American GIs who frequent the bar. Chris is feeling especially depressed, so John sets him up with a seventeen year old peasant girl, who has just become a prostitute, in an effort to cheer him

up. However, John does not anticipate that Chris will actually fall in love with the prostitute, Kim. This, of course, happens. Chris ends up marrying Kim in a Vietnamese wedding ceremony that he doesn't really understand. The sanctity of the wedding is disrupted by some raving lunatic, known as Thuy, who was apparently promised Kim by her father. Kim, always on her toes, informs psycho-boy that her parents are dead, so the promise no longer holds. Chris and Thuy pull out their guns, stare at each other for a while, and Thuy runs off swearing revenge. Just when things start to look good for our boy Chris, disaster strikes (what a surprise). The Americans evacuate Saigon, and naturally Kim and Chris are separated.

The next scene takes place in
SEE SAIGON, PAGE 12

ADAM VILLANI: MEDIA GUY

by Adam Villani

Various Awards Shows

Last week the Grammys, the People's Choice Awards, and the American Comedy Awards darkened our television screens. I only saw enough of the American Comedy Awards to see Jim Carrey not be funny and to see that red ribbons haven't gone out of style, and are the perfect way to make both a political and fashion statement without the danger of rocking anyone's boat. The People's Choice Awards once again proved that the American public has no taste, but also presented a great opportunity to see just about everybody on stage say something to the effect of, "these nominees show that you can have both quality and popularity." This, on the awards that nominated Julia Roberts as Favorite Dramatic Actress for her work in *I Love Trouble*. Anyway, if the People's Choice Awards are a little too highbrow for you, the MTV movie awards should be coming along soon. Note that MTV's winners for Best Actress have coincided each year with the winners for Most Desirable Actress. Yee-ha. The Grammys, on the other hand, take the cake by honoring records that are both only somewhat popular and only somewhat good. I'm not quite sure what some of their categories mean; does the "Album of the Year" award mean that 1994 will go down in history as the year Tony Bennett appeared on "MTV Unplugged?" What I'd really like to see is some sort of amalgamated nationwide critics' awards. Not only would they honor those films, TV shows, and recordings really worth honoring, but I'm sure they'd also trash those works in need of trashing.

Speaking of awards shows, if you'd like to see my opinions about who will and who should win the Oscars (the undisputed king of silly awards shows), you can finger me at adamm@cco.caltech.edu. In the coming weeks I should be adding to my comments there and may even build my own Web page. In the meantime, check out the Academy of Motion Picture Arts and Sciences' own site by going to <http://www.oscars.org/ampas/>.

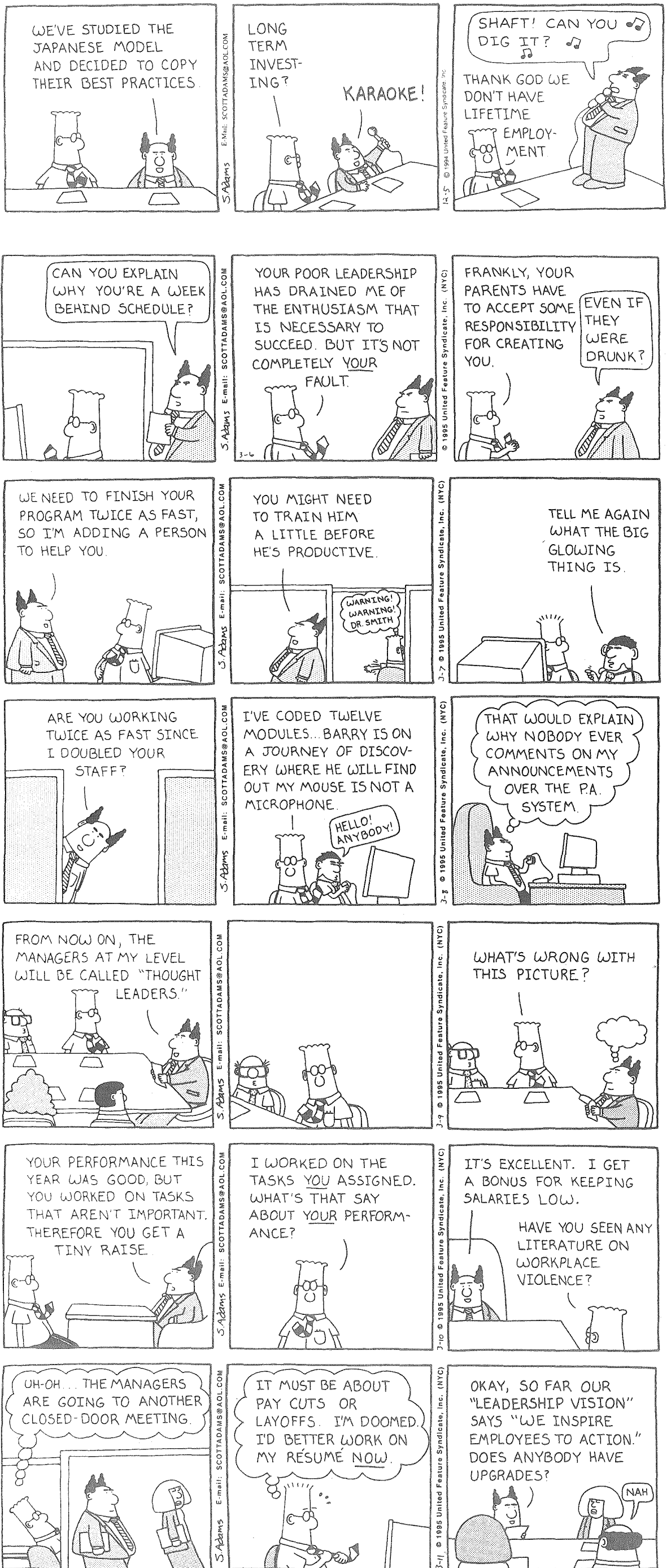
The Madness of King George

When not done well, film adaptations of short stories tend to be drawn out and stuffed with filler, adaptations of epic novels tend to resemble *Reader's Digest* condensed versions of the originals, and adaptations of plays tend to be static and stagey. Strangely enough, screenwriter Alan Bennett has avoided most of the pratfalls associated with adaptations of plays and instead fallen prey to the problems associated with adaptations of long novels. Multiple Oscar-nominee *The Madness of King George*, though certainly not without merit, jumps episodically from scene to scene and location to location, never giving any of the situations the time they need to resonate. I've heard unconfirmed reports that the American distributor has edited much from the film's original British length, in addition to changing the title from *The Madness of George III* so that we wouldn't think we were missing the original and its first sequel. It's a shame, really, I'd like to see a longer version of the movie.

The story begins with our old enemy George III (Nigel Hawthorne) in the wake of losing the American colonies and prone to violent outbursts of improprieties, obscenities, and flatulence. Various Royal doctors try in vain to cure him while his bored son the

SEE MEDIA GUY, PAGE 13

DILBERT® by Scott Adams





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Dave Krider
Brady Montz
Jared Smith
Yair Zadik

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Siddhartha Agarwal
Wendy Belluomini
Peter Carlin
Andrew Lines

Class of 1995

Greg Davis
Svetlana Kryukova
Tom Zavisca

Class of 1996

Daniel Zimmerman
<Your Name Here>

Class of 1990

Vivian Chow
Ed Lee
Charlotte Manly
Dave Proctor

Class of 1991

Marc Abel
Wendell Hicken
Yun Fong Loh
Kevin Luster
Eric Newman

Class of 1992

Jim Hu
Jeff Jones
Ed Lew
Dong Lin
Jay Obernolte
Chris Rosen

Communications Bill PREVENTING AIDS MORE

CONTINUED FROM PAGE 1

sent "indecent, lewd, threatening and/or harassing messages", both Caltech and Pacific Bell, as well as various peoples related to the nearby Network, would have possibility of being charged. In addition to this, to protect themselves, all networks would have to be strictly regulated as well as all interactions being closely monitored.

Such proposals are *not* however new. Most of the text simply expands on existing regulations, and the proposal itself is nearly identical to a proposal submitted by Senator Exon last year (a failed portion of the Senate Telecommunications Reform Bill, S.1822, 103rd Congress, Sections 801-804). While it failed somewhat quietly last year, current interest in technology and the "Jake Baker" case (both have been recently on CNN and in Newsweek, among other sources) has lead to this Bill getting an excessive amount of exposure.

Due to both the strong choice of language in the article (according to it, if anyone at Caltech broke one of the regulations, all people seen as being in charge of the Caltech Computer Network could be charged with not more than \$100,000 or the imprisonment of not more than two years, or both), as well as the strong response by both the ACLU, media, and citizens who are generally opposed to this, the bill is not expected to last that long. In particular, Slade Gorton (Washington State Senator since 1988) is well known as being involved with education improvement. One of his primary projects is the elimination of violence in the schools and the Child Safety Act. He recently passed successful anti-drug amendments increasing the task force's funding by 14%. While he is on a wide degree of Senatorial Committees, including Appropriations, Commerce, Science, and Technology, and the

Budget committees, he himself is not backing this legislation strongly. While he is very much for protecting children, there are other bills that he feels are much more important to his constituents (see ftp.senate.gov for more information on bills that Senator Gorton feels strongly about).

As demonstrated in the February 13th interview by CNN, Senator James Exon feels that this bill is much more important. He "thinks that young people, especially small children, should be able to cruise that superhighway without being endangered by a whole series of smut, pornography...", and that he has heard that at many Universities, "you've had to take down certain links because there is so much smut and so much pornography that it was even embarrassing to universities, which are usually pretty open on this." (What he is referring to here is the removal of public ftp sites dealing with erotic picture formats, who tend to be removed due to excessive interest in them.) He also feels that sex related 'boards' should be entirely removed from the net. Even he has admitted, although, that certain aspects of the proposal are questionable regarding the First Amendment, and that it is currently unlikely to get much support.

To sum up, then, although this Senate proposal *is* in existence, it is considered a relatively minor piece that has gotten excessive coverage due to recent events and interest in the Internet. While anyone who feels strongly about this Bill is encouraged to write to their congressman or anyone else to inform them as to your opinions, the way things are currently set up, with the current opposition and so forth, Bill S-314 has a very slim chance of lasting long at all, much less being passed. It will probably get defenestrated.

CONTINUED FROM PAGE 1

modify their sexual behavior. Instead of going out to bars and picking someone up for a one-night stand, many choose to be involved in monogamous relationships. For those who are fearful lest their lives be shortened by a disease, the advent of AIDS will undoubtedly put promiscuous behavior in check. Unfortunately there are many who are not aware of the gravity of this disease and also those who are careless and live with the inane idea that AIDS will not affect them. These people are an especial danger to society because their carelessness greatly promotes the spread of disease. Some people who are infected devote the rest of their lives advocating "safe sex" and awareness of this disease. However, others wallow in their misery and continue their promiscuous behavior, infecting others as a result of human pettiness or mental illness.

There have been severe consequences from the sexual freedom expressed in the free "love" decade. The danger of AIDS did not exist in the 1960s; people were free to have sexual intercourse with whomever they chose. But now that freedom has to be combined with responsibility. Some people choose abstinence, but those who choose to have sex should do so in a responsible way in order to stop the spread of disease, both social and medical. Social diseases are born and reproduced when people have different expectations going into a relationship, whether strictly sexual or of another kind. People should talk about having sex before stripping. Perhaps—many people would say almost certainly—talking before having sex "kills the mood." But it is better to do talk than to reproduce disease.

Every year the regulations concerning the amount of nudity and sexual expression allowed on television and movies in the United States are

loosened. Today's youth is sexually active at a much younger age, and the teenage pregnancy rate continues to increase. Adolescents contract a variety of sexually transmitted diseases without even knowing that they have been infected and then go on to infect others. Every time that our youth engages in sexual relations they are at risk, even if they protect themselves in the ways advertised today. They are at risk because they cannot know absolutely whether or not their partner is carrying some disease, either because the partner is dishonest unaware.

After speaking to several students at Caltech about what they know about STDs, I have found that most of them know very little even though Caltech annually distributes *Making Sex Safer* brochures, which enumerate a range of STDs and how to protect oneself from them. None of the students that I spoke to knew that it is possible to contract a sexually transmitted disease from direct skin-to-skin contact. I was mailed this very same brochure my freshman year; I just put it away in my drawer because I could not conceive of having sexual relations until much later. I am certain that for the same reason or because of carelessness, many other students are ignorant of the dangers of STDs. I think that today's commercials should warn that it is possible to contract a disease from skin-to-skin contact. I am not advocating paranoia, rather a movement to greatly improve the state of sexual behavior and health today.

In these times, there is an assumption that if two people are involved in a romantic relationship, they will engage in sexual intercourse. This belief has come to be an accepted idea in the movies, television, literature, and even here at Caltech. If other ways of loving each other were emphasized instead, then there would not be such widespread disease. STDs have turned

ASCIT MIN UTES

CONTINUED FROM PAGE 2

to put announcements on the kiosk. The tape is hard to clean off. If you really have something to say, defenestrate it or write an INSIDE WORLD.

⇒ Greg says that signups for ASCIT social team will be up on Friday, March 3.

⇒ Motion to close the meeting passes 5-0-?.

Paul Vigil — you are a bozo. Pick up your math folder from Sac 64 or we shall defenestrate you!

many people into clockwork oranges, without the capacity of making a choice. AIDS is so intimidating a disease that the age-old method of deciding whether or not to engage in sexual intercourse has been abandoned. Today the question is "should I risk infection or remain abstinent?" rather than "do I love this person and I committed enough to this person to sleep with them? Is it the right time?"

My earnest desire is that our youth be aware of the heart of darkness of sex. If sex were not used as a base pleasure, but rather expressed in its most noble form, and if there were not so much casual sex, we would not be living in a world where being stranded on a desert island with only one towel to share would pose a health risk.

Summer Bridge Positions 1995

Announcement of openings for the following positions

Counselor Positions

- 1 Head Counselor
and
- 2 Counselors

Teaching Positions

Math Instructor and TA/Grader
Physics Instructor and TA/Grader
Chemistry Instructor and TA/Grader

Program Dates

Sunday, August 6, 1995 through Saturday, September 16, 1995

Contact

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

Application Deadline: March 20, 1995



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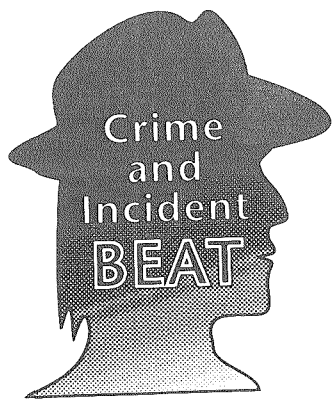
For further information and application, call or write.

All applicants will be subject to pre-employment drug testing.

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Yosemite National Park
Human Resources
California 95389
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Equal Opportunity Employer. AAP/ME/D/V/VV



Theft

Soda machine coin box and coins were taken from the Fleming House Lounge. Person reported that machine was observed with coin box February 24, at 12:00 noon. Upon returning on February 27, at 1:30 pm, discovered the soda machine unlocked and the coin box was missing with an estimated amount of \$100 worth of coins.

Suspicious Person

Male, Hispanic, 5'6", 150 lb black hair with medium complexion. Subject was reported to be in the Tournament Park lot looking inside the cars parked in the lot on March 3. Security responded, subject no longer in area.

Suspicious Person

While walking her dog on March 3, victim observed, a suspicious person in a white compact 4 door car driving slowly on Catalina street, near San Pasqual. Subject began starring in victims direction. Victim then picked up the dog and went back inside her apartment. Security responded, subjects no longer in area.

Missing Property

Black leather wallet, last seen in Baxter Lecture Hall on March 3, at 7:30 pm. If you have any information concerning this item, please contact Security at ext: 4701.

Vandalism

On March 4, at 5:00 pm., victim parked GMC pick-up Truck in the Business Service's lot. Upon returning on March 5, at 3:09 am discovered passenger and the rear quarter windows shattered. An initial search of inventory reveal no property was taken.

MAGNETITE

FROM PAGE 1
Nesson said, on whether or not any of these serious concerns will prove to have a scientific basis. It's been hard to replicate the results of many experiments done in this area, and there's been considerable argument among scientists about what mechanism could have a biological or health impact.

"Because the field strength of these EMFs is so very low, it's been difficult to determine a biological impact with any certainty," Nesson said. However, some laboratory or "in vitro" tissue culture studies of EMFs have purported to find changes in cellular calcium ion release and uptake, alteration of cell division rates, and impacts on levels of messenger RNA.

Years of research on biologically produced magnetite by Nesson and his colleagues at Caltech, Associate Research Engineer Atsuko K. Kobayashi and Professor of Geobiology Joseph L. Kirschvink, have recently led the scientists to conclude that cellular EMF-exposure studies are all flawed by the lack of control for magnetic contamination. And it's now clear that ferromagnetic particles are present not only in dust in the air, but are also adsorbed onto the surfaces of laboratory equipment, present within glass and plastics, and even found in reagent-grade lab chemicals and water. Only with sophisticated "clean room" lab techniques can they be avoided.

Magnetite, the magnetic form of iron oxide, is quite common in the environment and was first known as the "lodestone" that formed the basis of the earliest compasses used by navigators. Magnetite absorbs energy from electromagnetic fields at both power-line and microwave frequencies.

"The presence of magnetite contamination in laboratory studies, which is extremely difficult to avoid, can negate the validity of these experiments," Nesson said. The magnetite particles could be adsorbed on cell surfaces or ingested by cells, transfer mechanical energy to mechanically activated ion channels, and thereby alter ion concentrations in the cell sufficiently to produce the observed biological effects, the scientists said in their letter to Nature.

The magnetic contaminant particles can be distinguished from biogenic, or biologically produced, magnetite, which has been found in trace amounts in human brain tissues, as well as in other organisms. The biogenic magnetite may provide a mechanism by which EMFs could bring about deleterious biological effects, as has been noted in some of the epidemiological studies.

Continuing research will explore how these low levels of biogenic magnetite may function in tissues, Nesson said, and whether or not they play a role in producing biological impacts from exposure to electromagnetic fields.

Kreative Korner

The Flies

Haunches numb, she sat with nose to knee.
The cheap light ran trills of sitartinkles
Along the thousand and one gold links from her nose,
Powdered and gently moist, to her ear.
She sat with nose to knee,
Was fed sweets by congratulating unseen hands.
He fed her too, a crumbling sandesh,
And missed at first, smudged her lipstick
(They laughed at this intimacy
Her mother all paan-stained smiled.)



They come like jewelled flies
Bedecked and whining glitter
In hair taut from coconut oil
Or crimped curled twisted furled
Hair they can sit on or bobbing at the chin.

She sat all-seeing eyes lowered kajol-heavy
Weighed down by his past her shame
(Her shame crawled among the heaped tables
Sweating fat from the cows they ate
Draining oily meat, licking turtled lips
Her shame jangled bangles among the guests.)



My god Alisha affectionate
Jealous Wendy white whore
(What she will not do for him
All the dirty dirty acrobatics she will
Green eyes like a wolfwoman
Yellow like banana)
Sangeeta like a switchblade
What what looking for new customer
These shameless look at him
Alisha with big big eyes so starry brown
What are they tears of loss, happiness
Does she remember the what frolicking
She comes in ruby and green
Their eyes like date-molasses
Runny like healthy diarrhoea
And he my god his past my shame
Doesn't know where to look
What did he promise them
She does not need promises but gave and took his past my shame
And looks at him with softness
Come here I show you softness
In raw papaya thighs and ripe mango mound
You come like flies to half-eaten meat
And think me the weighty wasp



They come wrapped in winged saris
Lightly veined the curls lick hued cloth like oiled paper
They come painted dolls and dragon mothers
Hurried, saried like jewelled flies
In hordes his whores to my wedding.

Shameel Arafin
December 1994

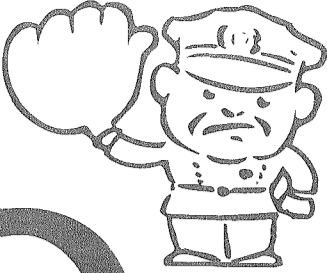
Kreative Korner Policy

Guidelines for Submissions.

Submissions are generally creative works, such as narrative, fiction, drama, poetry, artwork, or photographs. Essayists are encouraged to submit to *The California Tech*.

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

Pop



Quiz

1. Delrina WinComm PRO 1.1 is a:

- A. Hot new taco dip
- B. Hot new band
- C. Hot new communications software that makes going on-line easier than ever

2. With WinComm PRO you'll be able to:

- A. Quickly access on-line service using predefined scripts for CompuServe, MCI Mail, GENie and others
- B. Send and receive Internet e-mail using Delrina Internet Messenger™
- C. All of the above

3. When the prof gives you an assignment you:

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

4. Dylan is currently dating:

- A. Kelly
- B. Valerie
- C. Who cares, tell me more about WinComm PRO.

If you chose anything but "C" you're missing the boat. When it comes to easy communications, nothing beats new Delrina WinComm™ PRO 1.1, the easiest way to go on-line.

And now featuring Delrina Internet Messenger,™ you'll be able to send, receive and manage Internet e-mail easier than ever. Best of all, you can get WinComm PRO alone or as part of the affordable Delrina Communications Suite,™ which also includes Delrina WinFax™ PRO 4.0, the world's best-selling fax software.

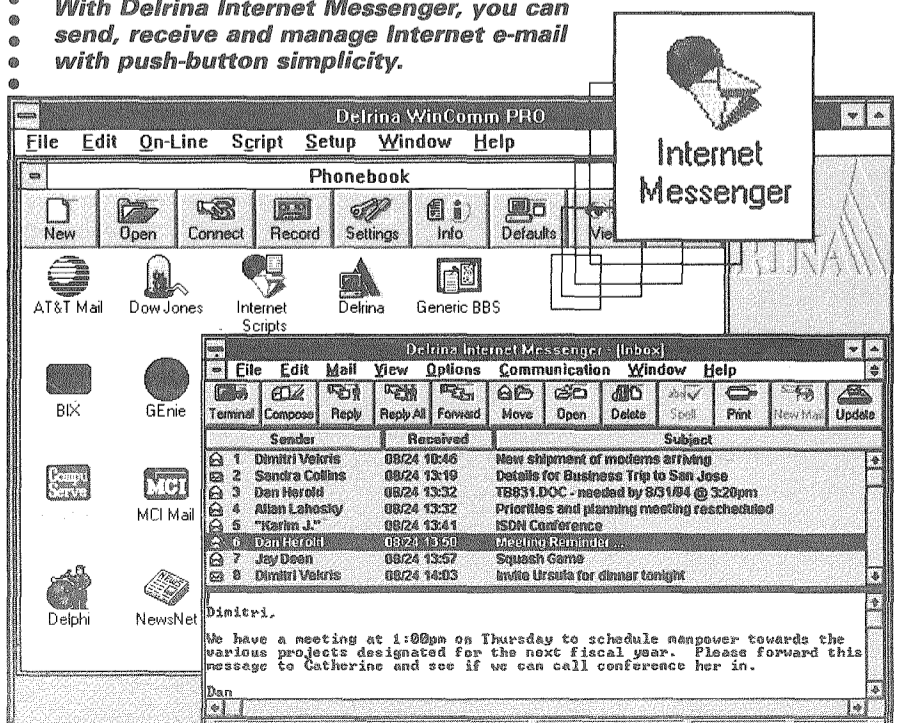
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Canadian Graduate Students Announce Support of US Graduate Student Aid

submitted by Kevin Boyer

Chicago, Illinois ... The National Association of Graduate-Professional Students (NAGPS) announced today that the Canadian Graduate Council (CGC) had unanimously approved a resolution supporting NAGPS efforts to save graduate student financial aid from proposed cuts in the United States Congress. In a letter sent today to Speaker Newt Gingrich, Senate Majority Leader Robert Dole, and other key members of the US Congress, the Canadian Graduate Council urged each "to work diligently to ensure that the interest exemption remains in place for students in the U.S. while they are in school."

The in-school interest exemption has recently been mentioned as a likely target for budget cuts proposed in association with the Republican Contract with America. "The loss of the interest exemption would be devastating to graduate students," said NAGPS Executive Director Kevin Boyer. "The loss of the exemption would increase the debt owed by graduate student borrowers by as much as 50%. With an estimated average debt increase of \$12,000 to \$15,000, and a maximum increase of \$35,000, NAGPS believes that such a dramatic increase in potential debt will lead to decreased enrollments and widespread difficulties in graduate programs throughout the nation."

The announcement by the CGC comes just as students from throughout the United States prepare for a huge grassroots lobbying campaign aimed at convincing Congress to support student aid. March 13 to 20, students from throughout the nation will be encouraged to write or call Congress. Students in Washington, DC, will make countless house visits, including the delivery of letters from students from throughout the nation.

Joining NAGPS in the week-long campaign are the United States Student Association, the American Medical Student Association, US Public Interest Research Group, American Student Association of Community Colleges, the National Alliance of Blind Students, and members of the Alliance to Save Student Aid, a coalition of higher education associations and trade associations.

"Students interested in sending e-mail letters to Congress can send those letters to SAVE-STUDENT-AID@NETCOM.COM and they will be printed out and delivered to Congress," said Boyer. He added that each letter must be individually addressed to a member of Congress and must include a name and return address.

For more information about the nationwide campaign, contact NAGPS at NAGPS@NETCOM.COM or by calling (708) 256-1562.

Official Numerical Results of ASCIT Officers Election: Monday, February 6, 1995

Ballots: 458
Errors: 5

For definition of tie and procedure for counting in case of a tie, consult the little t, ASCIT Bylaws, Article VIII, Section 7. Any questions should be addressed to Cedric Hobbs at cedric@ugs.org or MSC 260.

Respectfully submitted, (signed) Cedric Hobbs

ARC Secretary		Write-ins	NO	Abs.	Non-Abs.	Total		
Gill	Hunter	6	58	143	315	458		
70	181							
Winner: Christopher Hunter, 57.5%								
ASCIT Secretary		Write-ins	NO	Abs.	Non-Abs.	Total		
Honsinger	Relyea	9	51	138	320	458		
113	147							
+3			Redis	+48				
116	147	9		186	272	458		
Winner: David Relyea, 54.0%								
Athletic Manager		Write-Ins	NO	Abs.	Non-Abs.	Total		
Kerkela	Verhoff	5	39	72	386	458		
97	245							
Winner: Laura Verhoff, 63.5%								
BOC Secretary		Write-Ins	NO	Abs.	Non-Abs.	Total		
Carson	Walker	4	32	129	329	458		
153	140							
+2	+1	+1	Redis	+28				
155	141	5		157	301	458		
	+1	Redis		+4				
155	142		161	297	458			
Winner: Ricky Carson, 52.2%								
Director for Academic Affairs		Write-Ins	NO	Abs.	Non-Abs.	Total		
Ganesan	Walsh	6	51	134	324	458		
96	171							
Winner: Ken Walsh, 52.8%								
Director for Social Activities		Write-ins	NO	Abs.	Non-Abs.	Total		
Rodriguez	Stiert	10	57	127	331	458		
113	151							
+3	+3	+1	Redis	+50				
116	154	11		177	281	458		
Winner: Greg Stiert, 54.8%								
Freshman Director-At-Large		Honsinger	Saenz	Write-Ins	NO	Abs.	Non-Abs.	Total
Crocker	Gidwani	40	123	5	29	130	328	458
90	41							
	+1	+1		+2	Redis	+25		
90	42	40	124	7	155	303	458	
+1			+1	Redis	+5			
91	42	40	125		160	298	458	
Case 1 of 2: Honsinger Redistribution								
+6	+5	Redis	+10		+19			
97	47		135		179	279	458	
+19	Redis		+8		+20			
116			143		199	259	458	
Case 2 of 2: Gidwani Redistribution								
+14	Redis	+8	+3		+17			
105		48	128		177	281	458	
+11		Redis	+15		+22			
116			143		199	259	458	
Winner: Melissa Saenz, 53.2%, 53.2%								
IHC Chair		Write-Ins	NO	Abs.	Non-Abs.	Total		
Cuthbert	Derkits	143	7	44	55	403	458	
105	104							
+5	+1	+5	+2	Redis	+31			
110	105	148	9	86	372	458		
		+3	Redis	+6				
110	105	151		92	366	458		
Case 1 of 2: Derkits Redistribution								
+27	Redis	+14		+64				
137		165		156	302	458		
Case 2 of 2: Cuthbert Redistribution								
Redis	+13	+43		+54				
	118	194		146	312	458		
Winner: Tom Maccarone, 54.6%, 62.2%								
Tech Editor		Write-Ins	NO	Abs.	Non-Abs.	Total		
Arafin	T-5	T-3	Jeng	2	34	57	401	458
93	121	78	73					
+1	+2		+1		Redis	+30		
94	123	78	74	2	87	371	458	
				Redis	+2			
94	123	78	74		89	369	458	
Case 1 of 2: Jeng Redistribution								
+16	+11	+17	Redis		+30			
110	134	95			119	339	458	
+28	+29	Redis			+38			
138	163				157	301	458	
Case 2 of 2: Team of 3 Redistribution								
+10	+19	Redis	+21		+28			
104	142		95		117	341	458	
+34	+21		Redis		+40			
138	163				157	301	458	
Winner: Team of 5, 54.2%								
Treasurer		Write-Ins	NO	Abs.	Non-Abs.	Total		
Manca	Shimizu	14	54	142	316	458		
91	157							
+1		+2	Redis	+51				
92	157	16		193	265	458		
Winner: Kanna Shimizu, 59.2%								
Upperclass Director-at-Large		Write-Ins	NO	Abs.	Non-Abs.	Total		
Kerkela	Munoz	3	53	86	372	458		
109	207							
Winner: Laura Munoz, 55.6%								

CSS SPACE NEWS

by Ross Brown

I'll bet everyone is happy to have another term nearly finished! For a group of lucky men and women, this week is their first in training as astronauts. Speaking of astronauts, the space shuttle is still aloft after a spectacular takeoff a week ago yesterday. Have a great Spring Break!

New Astronaut Class Begins Training

Twenty-one astronaut candidates arrived at Johnson Space Center this past Monday to start their training as the Astronaut Class of 1995. Their year-long familiarization will enable them to operate the complex machinery that makes up the NASA fleet. Making up the group are two international mission specialists, nine US mission specialists, and ten pilots from the United States.

This group was selected in December of 1994 for this last stage of many years of becoming a full astronaut. Monday was the only chance that the media and outside organization had to meet the up and coming astronauts for the next year. Once in training, they don't let up until ready to fly.

Among the twenty-one selected, there are a total of 12 from the US Armed Forces, (6 from the Navy, 5 from the Air Force, 1 from the Marine Corps) one is from Canada (CSA), one is from Japan (NASDA), 5 are women, 16 are men (same ratio as Tech!). The ages range from 31 to 40, 5 are PhD's and one is a medical doctor.

Space Shuttle Endeavour Flying Longest Mission

On March 2nd, (last Thursday for those of you without calendars handy) the space shuttle Endeavour lifted off from Kennedy Space Center (KSC) with a full load of seven astronauts for the longest flight ever performed by a space shuttle crew. The flight will last for 15 days, 13 hours, putting the space shuttle down next week Friday. (Wow!)

This marks the second flight of the set of ultraviolet telescopes called

ASTRO. STS-67 (ASTRO-2) will also carry microgravity processing experiments, tests of the active control of flexible space structures, and studies into protein structure. The STS-67 mission will be the 8th flight of Space Shuttle Endeavour and the 68th flight of the Space Shuttle system.

The STS-67 crew will be commanded by Stephen S. Oswald who will be making his third Shuttle flight. William G. Gregory, who will be making his first space flight, will serve as pilot. The three mission specialists aboard Endeavour will include John M. Grunsfeld, Mission Specialist-1 (MS-1) who will be making his first flight, Wendy B. Lawrence, Mission Specialist-2 (MS-2) who will be making her first flight and Tamara E. Jernigan, Payload Commander and Mission Specialist 3 (MS-3) who will be making her third flight. Rounding out the crew will be two payload specialists who flew on ASTRO-1 during the STS-35 mission in December 1990. Samuel Durrance will serve as Payload Specialist-1 (PS-1) and Ronald Parise will serve as Payload Specialist-2. Both Parise and Durrance will be making their second space flight.

An exciting aspect of this shuttle flight is the involvement that the general public will have through its children. The STS-67 crew will take on the role of teachers as they educate students in the United States and other countries about their mission objectives. Using the Shuttle Amateur Radio Experiment-II, 6 members of the crew will talk with students in 26 schools in the U.S., South Africa, India and Australia about what it is like to live and work in space.

Good News from JPL

Three mission concepts developed at the Jet Propulsion Laboratory have been selected to compete for launch in 1999 as part of NASA's Discovery program, designed to develop and launch small, low-cost planetary spacecraft with highly focused science goals.

These three missions will be studied over the next six to nine months, leading to a fall 1995 deci-

sion to select one of them for development and launch.

The three missions (contestants) are:

- Stardust, which would fly through the extended coma, or tail, of the active comet P/Wild 2, taking images and returning a sample of its cometary dust to Earth for further analysis;

Cost to NASA: \$ 59 million
Launch: February 1999

- Suess-Urey, which would collect samples of solar particle matter streaming outward from the Sun and return it to Earth for laboratory study; and

Cost to NASA: \$ 214 million
Launch: August 1999

- The Venus Multiprobe Mission, which would drop 16 small probes into the thick Venusian atmosphere to enable study of its unusual atmospheric circulation.

Cost to NASA: \$202 million
Launch: June 1999

These proposals were JPL's contribution to the twenty-eight formal proposals for the next Discovery missions that were received by NASA in October 1994. As the Discovery program comes on-line, future missions should happen once about every 18 months.

My bet is that the last two will be defenestrated; we'll see...

Nifty Quote of the Week:

"When you look out the other way towards the stars you realize it's an awful long way to the next watering hole."

—Loren Acton

US Astronaut aboard *Challenger*, July, 1985

The Caltech Space Society (CSS) is a member of the Students for the Exploration and Development of Space (SEDS-USA) and the National Space Society. (NSS) Membership in CSS is open to the entire Caltech community. If you wish to know more about CSS and its activities, please email us at css@cco.caltech.edu or call 568-8028.

The Dangers of Inebriation: A Social Commentary???

by J. Random HercFrosh III and (Drunk) Lauren

Today's Target: Find the hidden message from The Lord, Our Savior, Prince of Darkness, Master of Evil, King of the Underworld, Sovereign of the Netherrealm, Beelzebub

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YNEWS

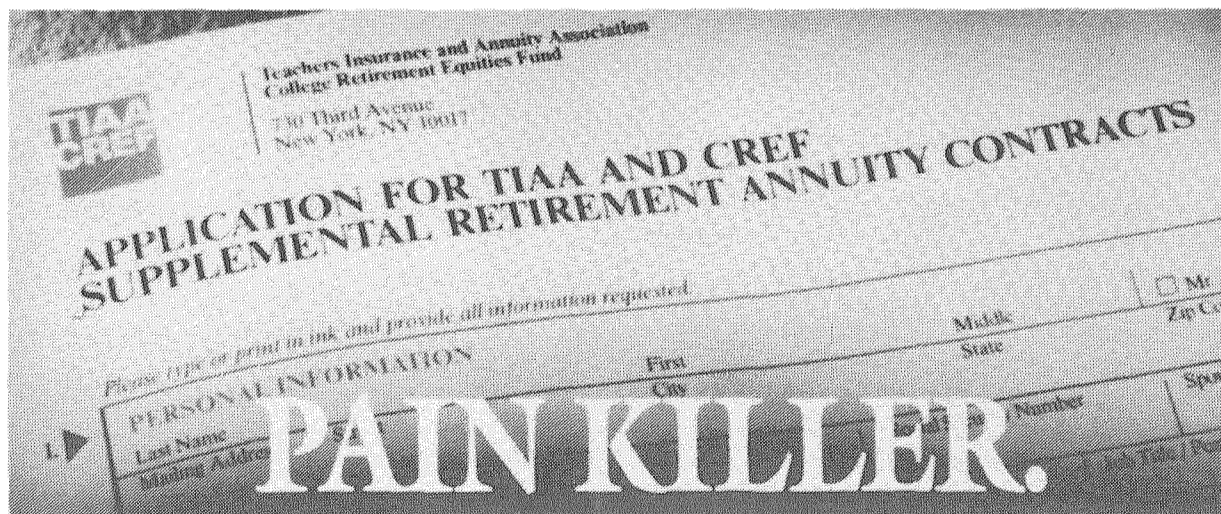
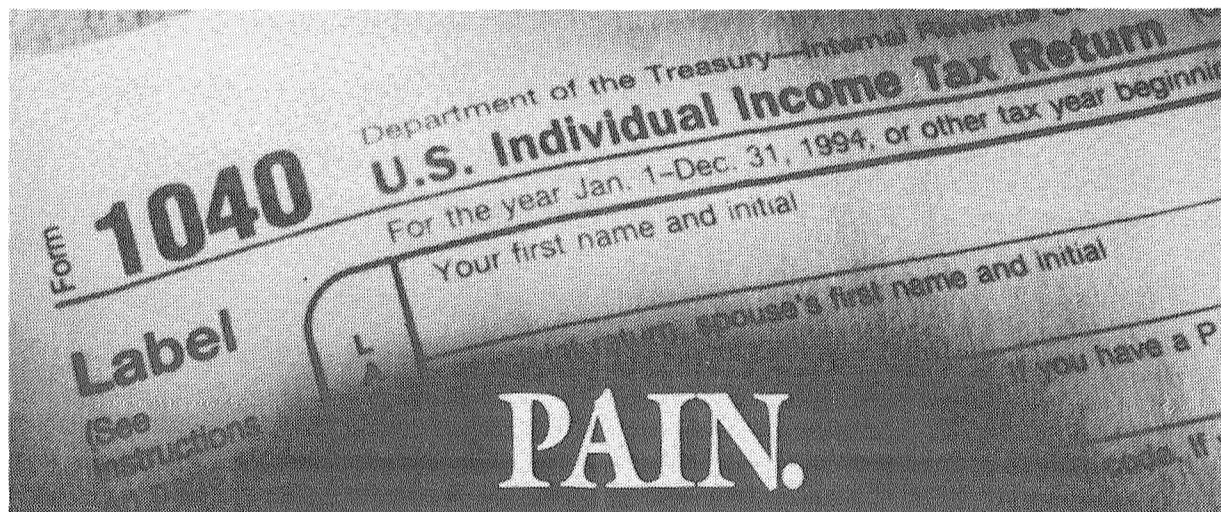
by Topher Hunter

We're coming down to the wire, folks, and the end is almost here. To celebrate the coming of Spring Break, it's... *Decompression!* That's right, it's your favorite time for stuffing your faces with chili, burgers, and bagels. We'll be serving in the usual place at 7:30. Entertainment includes: movies both nights, and Senseless Death on Sunday.

Also, right now, even as you read this: (assuming it's the lunch hour) there's a Y noon concert in front of Winnett!

Lastly, it's not too late to sign up for the Y's Spring Break Mountain Biking Trip. Come break yourself on break when your brakes don't work. Sign up soon, as space is limited. Call Chris at x6164 for more info.

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SPORTS

Running Beavers Defenestrate Track Teams of Redlands and Whittier

by Dan Kleiman

Competing against Redlands and Whittier, the Caltech men's track finished in the middle of the pack last weekend while a depleted women's team finished third. The meet was held on Caltech's track as the first of a series of three dual meets against the rest of the conference which, together with standings at the conference meet in May, determine order of finish within the league.

The meet started out with the 3000m steeplechase. Caltech was represented in this event by sophomore Chris Cary and frosh Brad Nakatani, who was running in his first steeple. In spite of his inexperience, Brad could have taught Chris one important lesson: land on your feet. Instead, Cary took the third water jump face first, but eventually charged back into the race to take third in a personal best time. While at first many people suspected that Cary's fast time was due to his strategy of falling over the hurdles, other Beavers were able to turn in equally impressive marks without hitting anything. Adrian Hightower proved this fact by clearing a bar placed 5' 8" in the air to set a personal best in the high jump. Matt Goff, returning from injury, took it one step further with a jump of 5' 10". However, newcomer Tim Yarnall cleared the highest bar of the day, although his vault of 9' 6" was done with the assistance of a fiberglass pole.

On the track, the Beavers fared even better. In the middle distances, junior Rob Bergeron and senior Ron Stieger cruised to victories in the 400 and 800. Another new face, junior Rob Chapman, provided pressure in both races and finished the day with very impressive bests for his first meet. The Beaver distance runners picked up where the sprinters left off,



Cailin Henderson closes her eyes and visualizes a strong finish while she warms up at the NCAA Championship.

outscored Whittier and Redlands in both the 1500 and 5000. 5K runner Tom "softens hands while you do dishes" Meyer ran a personal best of 17:21.43, while frosh Brian Barris continued his rise with a 4:21 to take fourth in the 1500.

A women's squad set back by injury still turned in many fast times and should be back to full strength by the time conference rolls around — a prospect which should frighten the rest of the conference. Senior Amy Oldenburg led the way, with a season best throw of 32.8 meters to win the discus and a toss of 35.68 meters for second place in the hammer throw. The Beaver sprinters, hurt by the absence of Gretchen

Larson, nevertheless turned up the heat on the competition through Kristin Polito's personal best of 33.90 in the 200. In the 1500, two national qualifiers squared off as Caltech's Cailin Henderson narrowly lost to Kristal Pister of Redlands despite running a personal best time. Senior Ginger Garcia took control of the 3000 for the Lady Beavers, running 11:45 to come in fourth.

The men's team now sits in fourth place in the conference, and both the men and women look to qualify athletes for the national meet. Caltech gives the rest of the conference a break until April 8th, but they will compete tomorrow at the Cal State-Fullerton Invitational.

Fencing Wins NCAA Western Conference Championship

by Austin B. Collins

This year, we got screwed again — but we won.

Last year, we got screwed and we lost.

Men's Volleyball Triumphant

by Richard Chin

On March 3rd and 4th, the Caltech Men's Volleyball Club hosted teams from Azusa Pacific College and Mount San Antonio Junior College, respectively. Though perhaps not playing up to top form, the team fought hard and was able to win both matches.

The first game against Azusa Pacific was a see-saw battle for control. The lead switched between both teams four times as neither truly dominated. Solid outside hitting by Andreas Masuhr and Rob Morison, along with the intimidating presence of middle blockers Ken Wiberg and Stuart Demcak helped Caltech persevere to victory, 15-13.

Neither team was able to find its rhythm in the second game as errors from both sides of the net were costly. It became apparent that the maturity and level-headedness of the Caltech team were key in defeating the boisterous Azusa squad as Caltech took the game, 15-12.

In the third game, both teams came out strong, cutting back on the errors of the second. However, Azusa Pacific found itself facing a wall erected by Ken Wiberg and Mark Lonergan while having to commit its own blockers to try to stop Masuhr's attack. Strong serving by Masuhr and Rich Chin sealed the victory, 15-

11. Special thanks go to Mike and Maureen Burl for stepping in to referee as both scheduled officials had car troubles, and only one was able to make it to the match.

Saturday, the tired Caltech squad faced Mount SAC. Caltech relied on its consistency and mental fortitude to carry it through the match, as the purely physical aspect was perhaps not as brilliant as it had been in the past. The first two games went to Caltech, 15-13, 15-11. Against the constantly improving Mount SAC squad, Caltech lost the third 12-15.

Mount SAC tried to use its momentum to carry it into the fourth, but Caltech would not crumble. Instead, Caltech built its own momentum from solid contributions from all members of its squad to take and keep the lead. Late in the game, as the Mount SAC coach asked if they had any remaining time-outs only to hear that he had squandered them early in trying to stop the Caltech onslaught, the second official was heard to reply, "No. That's a sucky way to lose, ain't it?" Needless to say, Caltech rolled on to victory, 15-9.

There will be another exciting match of volleyball played this Friday, March 10th (that's *tonight*). Caltech hosts Cal Poly Pomona at 7:30pm in Brown Gym. Come out to support the team and watch some fast-paced, defenestrating, hard-hitting, mind-blowing *volleyball!*

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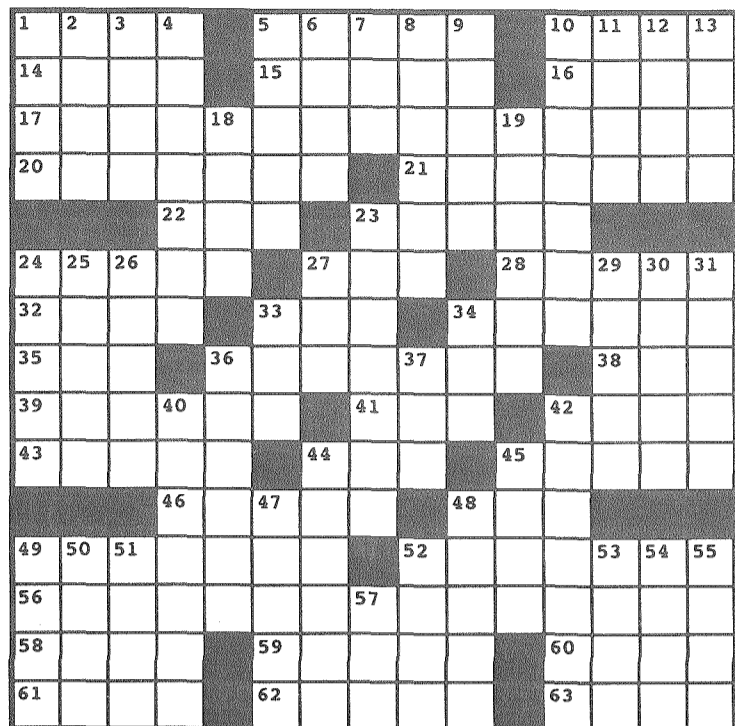
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Crossword: Ex-amples

edited by Wei-Hwa Huang



Across

- 1. Formica?
- 5. Play in water
- 10. Table
- 14. Moss type
- 15. Skin disease
- 16. Singer Fitzgerald
- 17. EX out by scientific method
- 20. Endurance
- 21. Area
- 22. Scuffle place
- 23. Work or business
- 24. Butts
- 27. Defenestrate
- 28. There were 39 of them
- 32. Evil or title
- 33. Pendulum's partner
- 34. Still a virgin
- 35. Harem room

Down

- 15. Skin disease
- 16. Singer Fitzgerald
- 18. Little inlets
- 19. Gets up
- 21. Area
- 22. Scuffle place
- 23. Work or business
- 24. Butts
- 25. Hatchback, e.g.
- 26. Fabric joins
- 27. Mail or Jordan
- 28. There were 39 of them
- 29. Chopin's Revolutionary, e.g.
- 30. ___ Nostra
- 31. New angle
- 32. Evil or title
- 33. Pendulum's partner
- 34. Still a virgin
- 35. Harem room
- 36. Bears
- 38. Iguana genus
- 39. EX stein
- 40. Design Contest results
- 41. Once, once
- 42. Garden with apples
- 43. Gel
- 44. Class of 95?
- 45. EX ercise
- 46. Fox hole
- 47. Bill of legend
- 48. Is
- 49. Teas
- 50. Corn lily genus
- 51. Cease
- 52. Sybarite
- 56. EX citing non-class activities
- 58. Mob mess
- 59. Old video Race game
- 60. Hamiltons
- 61. Injects, in math
- 62. Sic
- 63. Italian family

SAIGON

FROM PAGE 4

1978 Ho Chi Minh City (formerly Saigon). We find out that in the time Chris has been back in America, he has married. His wife, Ellen, seems to have some inkling of a clue that Chris is not telling her something about his days in Saigon. This scene is really enlightening; we also find out that Kim has a child, Chris's child. Thuy, now a bigshot in the communist regime, orders the reformed, re-educated Engineer (once a pimp, always a pimp) to find Kim. When Thuy finally comes face to face with Kim and finds out that she has a bastard half-breed kid, he tells her that he's going to have to kill it because it is disgraceful. Kim obviously does not want this, so she blows Thuy's brains out and runs back to her former pimp, the one and only Engineer and confides with him. The Engineer, seeing in Kim's baby his ticket to America, agrees to help and eventually take her to the USA to be with Chris.

The Engineer and Kim escape to Bangkok where they struggle for survival. The Engineer works as a pimp, Kim as a stripper. Meanwhile, back in the good 'ol USA, John (remember him?) has founded an organization that tries to reunite former service members with children that they left behind Vietnam. And whadda know, John finds out that Kim bore Chris a son. Now, things really start to get complicated. Chris is finally forced to tell Ellen everything. As expected, she is perfectly complacent when she hears the news. So the whole gang, John, Ellen, and

Chris jet over to Bangkok to work things out. While Chris and John are busy scouring the streets of Bangkok for Kim, the ever-resourceful Engineer has acquired Chris' hotel address ad gives it to Kim, in the hopes that she'll work Chris over and get both of them to the USA.

What would a good play be without cruel twists of fate? Kim goes to Chris' hotel room, only to be greeted by Ellen. Ellen, the typical blonde, at first mistakes Kim for the maid. They hit it off right away and have tea and biscuits (yeah right). Actually, they both are overwhelmed by their emotions and Kim tells Ellen that she wants her son to go back to the USA with Chris. Ellen freaks and Kim bolts out the door after nearly being defenestrated.

Then in the final scene...well, it's so good that I won't tell you. Now get off of your lazy duff and stop cramming for finals — you're going to fail anyway. *Go see the play!* It is a brilliant performance. Jennifer Paz, who plays Kim; Kevin Gray, The Engineer; and Peter Lockyner, who plays Chris, all put on stellar performances. Although there are no spectacular special effects per se, the "American Dream" scene provides the audience with a great deal of sensory stimulation. The songs are full of emotion, the music is captivating, and ticket prices start at only \$40. However, I recommend that you purchase slightly better seats — take it from someone who knows. All in all, *Miss Saigon* is by far one of the best musicals that I have ever seen.

Games & Puzzles - A Chess Game

by Wei-Hwa Huang

I had a fun game of chess the other day with my friend Dave Smith. I'd like to share it with all of you. (But I'm not telling which color I played!)

- 1. P-Q4 P-Q4
- 2. N-QB3 P-KN3
- 3. P-KB4 B-N2
- 4. N-B3

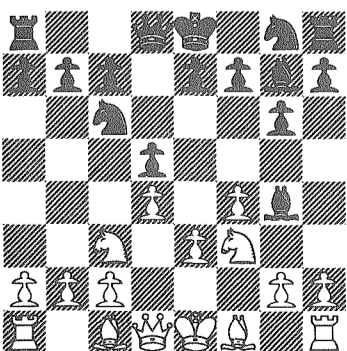
White would like to exploit his K5 square, but he has to protect his QP before he can continue.

- 4. ... N-QB3

Placing more pressure on the queen pawn.

- 5. P-K3 B-N5?

A bit too aggressive (see figure). N-B3 would have been favorable.



- 6. P-KR3 B-B4

Black realizes his mistake. 6. ... B-R4??? would have been followed by

7. P-KN4, trapping the bishop. The text is slightly worse than 6. ... BxN 7. QxB. Either way, Black has lost a valuable tempo.

- 7. P-KN4 B-K5
- 8. B-Q3 P-B4?

Black realizes, too late, that 8. ... N-B3 is followed by 9. P-N5 N-R4 10. BxB or 10. NxB, winning a pawn.

- 9. R-KN1

Unpinning the knight and making good the threat of 10. PxB. If 10. ... PxB???, then 11. RxB.

- 9. ... BxN

Succumbing to the pressure.

- 10. QxB

Black's QP is now in trouble.

- 10. ... PxB

A diversion.

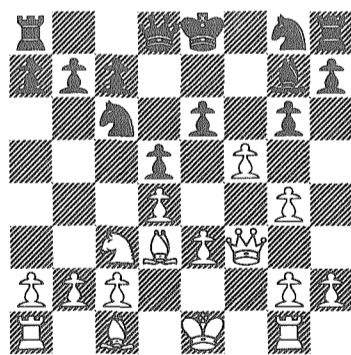
- 11. PxB P-K3

Black can't get his pieces out quickly enough!

- 12. P-B5!

The clincher (see figure). Black's KP is necessary for defense of his QP, and 12. ... NPxB is answered by 13. PxB, renewing the threat and discovering a threat on Black's bishop. Black

somehow needs to get his King to safety without losing more tempo as White is bearing down on his kingside.



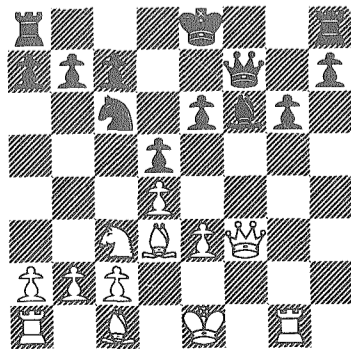
- 12. ... Q-B3?

Not the right move...

- 13. P-N5! Q-B2
- 14. P-B6 NxBP

Desperately, Black tries a swindle.

- 15. PxB BxB



(See figure.) Now, if White is not careful, Black can gain the initiative

by 16. ... B-R5ch! 17. K-K2 (anything else loses the queen) QxQch! 18. KxQ O-Och and Black has the initiative, a defended king, and a formidable attack at the cost of a pawn.

- 16. K-K2 O-O-O

Getting to safety.

- 17. P-R3

Defending against N-N5.

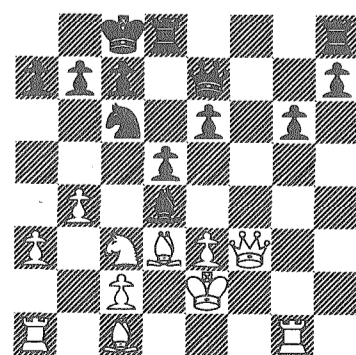
- 17. ... Q-K2

Setting a trap.

- 18. P-N4

Falling into the trap.

- 18. ... BxP!



Black gets his pawn back (see figure). If now 19. PxB??, NxPch forking the King and Queen.

- 19. K-Q2

19. B-N2 would have been better.

- 19. ... BxNch
- 20. KxB KR-B1

Black's turn to attack.

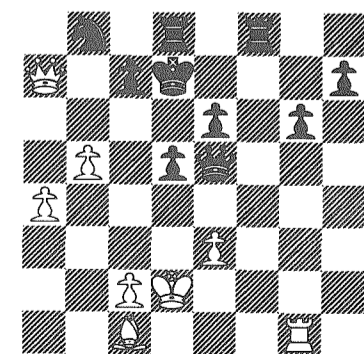
- 21. Q-K2? Q-B3ch!
- 22. K-Q2 QxR

White desperately needs a quick attack.

- 23. B-R6 PxB
- 24. QxPch K-Q2
- 25. P-N5! N-N1!
- 26. QxRP!

Threatening 27. P-N6 (Black's bishop pawn is pinned).

- 26. ... Q-K4
- 27. P-R4???



Bringing more pressure on the queen side (see figure). But why did I put three question marks after that move? Figure it out! Tell me what happened for the rest of the game. Send your analysis to gp@tech before Wednesday, April 2. Best solution receives \$10!

MEDIA GUY

FROM PAGE 4

Prince of Wales (Rupert Everett) does his best to use the king's illness as an opportunity to seize power. The king only begins to improve when put under the care of the strange country doctor Willis (Ian Holm), whose only skill seems to be maintaining a stiff upper lip. Aside from Holm, the acting is universally good, especially the itchy-for-power Everett. Of course, the costumes and sets are spectacular, and a few genuine laughs are to be found, though they tend to be of the "Oh look, they're disrespecting the king" and "Oh look, they're talking about urine" variety. Many people have enjoyed this film, but I really think it could have been much better with a longer running time and less obsessing with the king's bodily functions. Showing locally at Landmark's Rialto in South Pasadena.

The Brady Bunch Movie

The producers of *The Brady Bunch Movie* have wisely avoided merely making an hour-and-a-half version of the original TV show and have instead given us the premise that the outside world has moved on for the last twenty years while the Bradys have stayed the same. The results are downright eerie. Even the lighting changes from 70's sound stage to realistic outdoors when we move from the Bradys' backyard to their neighbors' driveway. *The Brady Bunch Movie* isn't hilarious, but I did chuckle consistently at the dead-on exaggerations of the 70's TV aesthetics and the Bradys' culture clash with the 90's. Andy Warhol would have loved this movie.

Exotica

Not to be confused with the "women's erotica" movie *Erotique*, *Exotica* is widely touted as Armenian-Canadian director Atom Egoyan's move into the mainstream. I'm not quite sure how to interpret this statement (*Exotica* is certainly no *Forrest Gump*), but judging from the only other Egoyan film I've seen, *The Adjuster*, I think it means he's moved from making utterly incomprehensible films about voyeurism and detachment to making an engaging, absorbing film about voyeurism and detachment that challenges and allures the viewer into discerning the characters' situations and motives. Bruce Greenwood plays a tax auditor who always calls for the same table dancer (Mia Kirshner) at a strip club called Exotica and is involved in a sting on an exotic-pet-store owner (Don McKellar), while Elias Koteas (better known to you as Casey Jones in the Ninja Turtle movies) is the club's DJ who becomes increasingly jealous of Greenwood's obsession with Kirshner. The joy in *Exotica* lies in being enveloped in Egoyan's layered world of intrigue and, instead of trying to figure out what will happen, piecing together what has happened to our characters in the past and how it influences the scenarios we see them in unfolding before our eyes. The music and cinematography are intoxicating, but even though the film revolves around a strip club it is not pandering or exploitative; *Exotica* is an intellectually stimulating film that is the best I've seen yet from the young year. Playing locally at the AMC Old Pasadena 8.

Miami Rhapsody

Miami Rhapsody's first-time writer/director David Frankel seems to be the odd result of an experiment in raising a child in a screening room showing Woody Allen movies 24 hours a day. Fortunately, the experiment seems to have produced a surprisingly good clone of Woody Allen. Sarah Jessica Parker (*L.A. Story*, *Ed Wood*) plays Gwyn, a young Jewish woman from a well-off Miami family torn between two lovers, just as her mother, father, brother, and sister are. Frankel has even gotten Mia Farrow to play Gwyn's mother, since she probably won't be showing up in any of Allen's movies in the near future. While lightweight and certainly not the most original movie the world's ever seen, *Miami Rhapsody* is well-acted, well-scripted, and is genuinely funny at times; I laughed a lot more here than I did in *The Brady Bunch Movie*. Antonio Banderas also stars. It should be interesting to see if this is a fluke or if the future will see a lot more good stuff from David Frankel (and hopefully a personal style). Showing locally at the Pacific Hastings.

Imamura Series at the Monica

If your knowledge of Japanese cinema doesn't extend beyond anime, Godzilla, and Kurosawa, you may want to expose yourself to the series of films by director Shohei Imamura now showing Saturday and Sunday mornings at 11 A.M. at Laemmle's Monica theatre in Santa Monica. Four of Imamura's films, *Pigs and Battleships*, *The Insect Woman*, *The Profound Desire of the Gods*, and *The Pornographers*, will be shown in the Monica's four auditoriums each weekend until the end of March. Japanese psychological dramas are my favorite type of film, and Imamura, the award-winning director of *The Ballad of Narayama*, along with the likes of Hiroshi Teshigahara and Nagisa Oshima, is one of the true greats who merged the influence of the French New Wave with an unmistakably Japanese perspective. Check newspapers or ask me for more details.

Check this out: *Heavenly Creatures*, my choice for Best Director of 1994, is playing at the Academy.

We're nothing if not topical. Today, we address an issue that has recently gained national prominence, despite the fact that the problem it focuses on has been festering in our society for over a decade. The explosive nature of this affair may make it difficult for us to maintain our objectivity, but that fact in and of itself can only help to brighten the spotlight that is only now being beamed into the darkest corners of this terrible blight on all of our lives. We are speaking, of course, about the corporate conspiracy known as ... "Cerealgate".

Yes, Cerealgate, one of the most terrible secrets of a mighty breakfast food empire. Thanks to the fearless work of United States congressmen, everyone now knows that most breakfast cereals have nearly doubled in price over the last ten years, despite a decline in production costs. Coincidence? We think not. Fortunately, we don't call them "public servants" for nothing! Soon, the evil monopoly which had gradually, yet insidiously, prevented poverty-stricken children from indulging in sugar-saturated "food" every morning will be struck a death-blow by a government which never fails to protect its citizens.

In order to gain a personal perspective on the matter, and subsequently to share that perspective with our loyal readers, we sent our crack S&M staff out to a local supermarket. Their orders: purchase breakfast cereal! We wanted to find out if these allegedly price-doubled products were, in actuality, simply twice as good as they used to be. After all, laundry detergents these days are more concentrated. Why not breakfast cereals?

When our staff returned, they had bought fourteen different brands of cereal, appealing to vastly different demographic groups. The total bill: \$27,288. Was it worth it? We were about to find out. But first, we were forced to terminate a member of our staff, the one who had selected "Barney Bits". Even under the stress and sense of urgency which Cerealgate had imposed upon us, we could never allow one of our employees to acknowledge that ultimate evil, the purple dinosaur which is deliberately stupefying our nation's children. But that's a column for another day. Later, we somewhat regretted our rash action, as the "Barney Bits" provided us with much-needed recreation (see below).

Once we had taken care of business, we rushed the sample cereals to our exclusive S&M labs, where we would be able to utilize state-of-the-art chewing and tasting equipment to objectively evaluate each item. Below is our cereal-by-cereal breakdown of the results of said evaluation. We only hope that this information can be delivered into the hands of the proper authorities, so that never again will our children, or even our grandchildren, have to hear that terrible word, "Cerealgate".

Lucky Charms: It was immediately obvious to us that this cereal classic was one of the greatest victims of the conspiracy. When we were children, Lucky Charms had four different types of marshmallows: blue diamonds, yellow moons, orange stars and green clovers. And for us, that was all the marshmallows we would ever need. But apparently that

wasn't enough for corporate America. No, four kinds of marshmallows wasn't nearly enough. So they've introduced new ones. Purple trees. Rainbows. Silver mirrors. Lead pipes. Black buckyballs. It just doesn't end. Clearly, Lucky Charms is the perfect example of what happens when a well-balanced, entertaining breakfast food collides with the evil of Cerealgate.

Mighty Morphin' Power Cereal: We're not ashamed to admit it. We had no idea that breakfast cereal technology had advanced so far! After five minutes in milk, the individual pieces of cereal combined into one large piece, which proceeded to battle a guy in a cheesy rubber monster suit. But while it was interesting

late.

Prune Bran: Clearly aimed at the aging segment of our society, Prune Bran just did not, in our eyes, manage to achieve the same level of edibility that its younger, hipper predecessor has. That's really a shame, because we believe that our venerated elders deserve the best when it comes to breakfast foods. Besides, Prune Bran is much easier to spell than Mueslix.

Rice Krispies: This cereal presented us with quite a challenge. Yes, it did indeed go snap, crackle and pop, but why? Was it just innocent noise? Or was it a coded subliminal message meant to subvert the youth of America? We consulted with noted audio and cryptography experts from

around the world, but in the end they all agreed that the only decipherable message they could extract from a bowl of Rice Krispies was "Paul is dead".

Honeycomb: Another classic cereal from our childhood. A few years back, Marc actually got a digital watch from a box of Honeycomb. Now normally you'd think that a watch that came from a box of ce-

real would be pretty crappy. But not this one. It lasted and lasted, for years! Marc even accidentally washed it, and it came back to life good as new! How many other watches could you say that about? Not many. Boy, that was a good watch.

Radioactive Man Cereal: We're just newspaper columnists. We're not as knowledgeable as a nutritionist about food content, and we're not as familiar as a radiologist with safe rad levels. Nevertheless, we just don't feel that the breakfast cereal manufacturers should be allowed to produce and market food that's main selling point is that it's "enriched with 12 essential vitamins and minerals, and just a pinch of nuclear waste". Is the FDA asleep at the helm? Or does this fall under the purview of the NRC? Either way, somebody needs to take a look at this cereal.

Alpha Bits: Another cereal with potentially subversive messages? Or just an innocent bowl of letters? Once again, we consulted with the finest experts. This time, however, the results were very different. Many, many messages were spelled out in each bowl of Alpha Bits, especially if we allowed ourselves to go backwards or diagonally. Perhaps the most frightening moment in our testing was when we derived the message "Cat in" from bowl number eight. An immediate investigation revealed that we had, indeed, forgotten to let out the cat! But how could a mere bowl of cereal know this? We knew not. Even now, just thinking about it gives us chills.

Trix, Chocolate Coated Sugar Bombs and Fruit Loops: Well, unfortunately, our lab notes for these last three were pretty much incomprehensible. We theorize that all that sugar drove us into a mindless, incoherent frenzy. Marc woke up three days later in Vegas with a wooden Indian and a marriage certificate from "Elvis' Little Chapel O' Love." Sharon read the entire OED, but has since forgotten most of it after she defenestrated it. We'd like to provide our readers with a definitive statement regarding the facts behind Cerealgate, but in the end we had more questions than answers. We won't give up though. The truth is out there.

S & M

get cereous

by Sharon & Marc

the first time, every single bowl did the exact same thing. Despite the mind-numbing repetition, we were still impressed.

Grape Nuts: What is this stuff, anyway? It's not nuts. And it sure as heck ain't grapes. It appears to be some kind of grain-based type thingy, we think, but we really aren't sure. It was real crunchy.

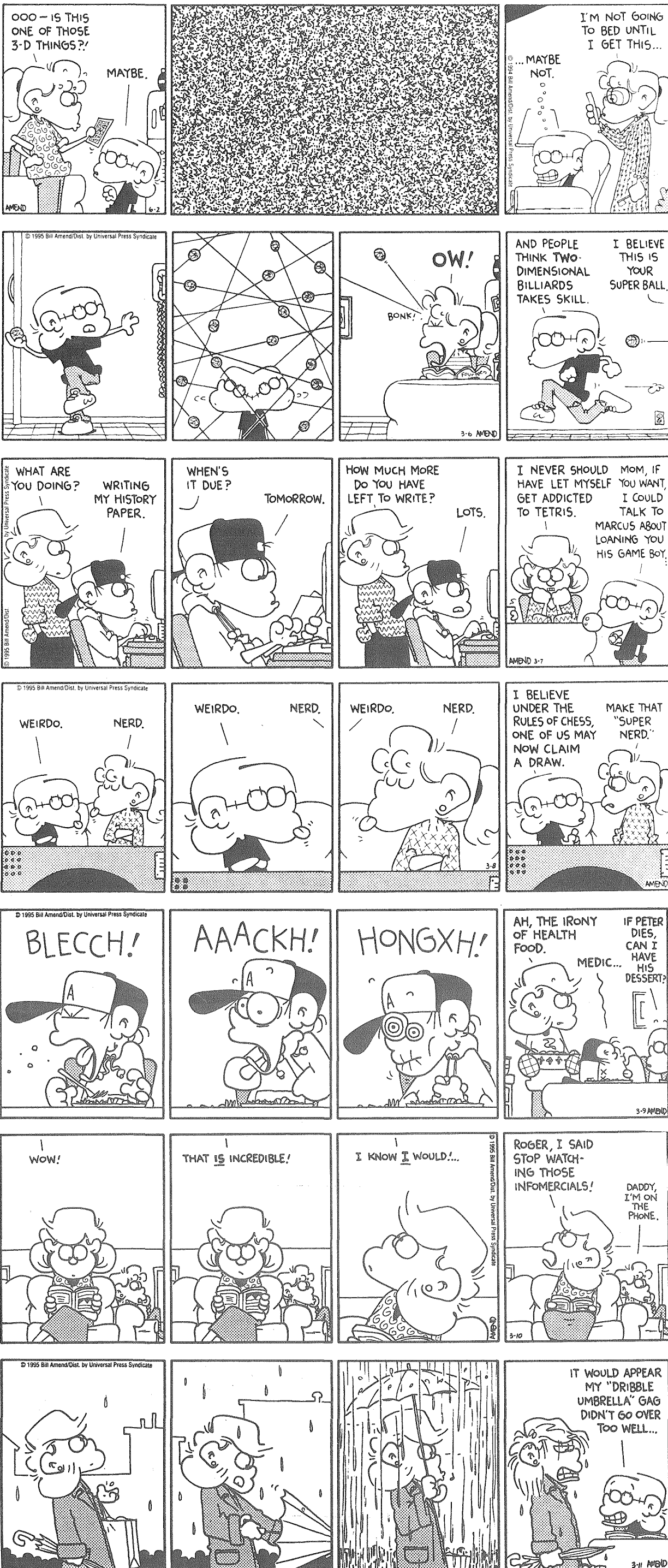
Frosted Flakes: Ever since it first appeared with the catchy slogan "Put a tiger in your tank", Frosted Flakes has dominated the market for vitamin-enriched sugar blobs with grain-based centers. When Marc was in London, he noticed that the cereal is marketed there as "Frosties". Despite an impromptu poll of the Londoners that were in the market with him, he was unable to determine if the word "flake" means something weird in British English, or if they thought "Frosted Flakes" simply has too many syllables.

Barney Bits: We never actually ate this cereal. Every time we saw one of those crunchy little purple dinosaurs we were so possessed with intellectual fury that we crushed it on the spot! After a while, however, this became a welcome release from the endless monotony of cereal-testing hell that we had entered. On occasion, we would even break into a chorus of "I Crush You, You Crush Me." After we ran out of Barney Bits, we went to wash our hands. We scrubbed and scrubbed, seemingly for hours, but no matter what we did our fingers stayed purple. It was more than just a case of dirty digits. It seemed like a stain on our very soul.

Raisin Bran: For years, Raisin Bran has been touted as having a lot of raisins. And advertising implied that the ratio of raisins to non-raisins was periodically increased. But was that really the case? What we discovered may shock you. We contacted the Bureau of Weights and Measures in Washington D.C., and confirmed that indeed Raisin Bran does contain exactly two "scoops" of raisins. However, Raisin Bran used to use the common Mackintosh raisin, and now uses the sweeter and juicier Jonathan raisin. What does it all mean? We dare not even specu-

FOXTROT

by Bill Amend



Bridge Without Sam

The following article is reprinted (with errors corrected) from two weeks ago. We regret any confusion the first printing may have caused. —the editors.

The First Board

by Jeff Goldsmith

For some reason, the first round of a tournament often sets the tone for the whole day. Sometimes, I am not yet concentrating and suffer a lapse on the first round. The only round worse is the last. Better discipline would help, I imagine. Or more sleep.

Today, I am playing with a very good partner on a strong team in an 8-round regional Swiss. As usual, I draw the strongest team in the field in the first round. I am on a long streak of doing that. The good news is that this isn't a knockout for a change. Drawing this team in a KO is a good way to get the evening off.

On the very first board, I am faced with problems. I deal at favorable vulnerability and hold

- ♠ AJ843
- ♥ Q107
- ♦ K2
- ♣ QJ4.

I open 1♠ and LHO overcalls 2♦. Partner bids 2♥, which we play as fairly strong. RHO raises to 3♦, and I have an easy call: 3♥. LHO is quiet and partner bids 3♠, which means he has three spades and five hearts and a game forcing hand. Even though partner is a masterful player of the dummy, I choose to play with spades as trump to protect my ♦K from the lead, so I finish the auction with 4♠. West leads the ♦Q, and I see that this hand is not cold.

- ♠ 1095
- ♥ AK632
- ♦ 7
- ♣ A1042



- ♠ AJ843
- ♥ Q107
- ♦ K2
- ♣ QJ5

SOUTH	WEST	NORTH	EAST
1♠	2♦	2♥	3♦
3♥	Pass	3♠	Pass
4♠	Pass	Pass	Pass

East wins the first trick with the ♦A and thinks for quite some time, as do I. I have four potential losers: two spades, one diamond, and a club. It appears as if the spades are offside, and the club is onside, since after the ♦A is seen to be in the East, there are only 9 high-card points left for the vulnerable overcaller to have without the ♣K. East must have raised on just a good diamond fit. East eventually returns the ♣6. This is odd. Why would he do that? Wanting an entry to dummy, I play small on this trick and West contributes the seven with a look of disgust on his face. For a pair of pros, these guys are not acting very confident. I win the club with the Ten and track the ♠10. There's no good reason not to duck this, so I let West win the Queen.

He quickly puts the ♣3 on the table and I have to decide between two lines of play. I can take the club finesse and draw trumps or I can play for a heart discard of my third club. The count suggests to me that I ought to take the finesse, but these guys' table action has convinced me otherwise. I am certain that the club finesse is not working, so I fly with the Ace, cash the trump Ace (nothing good happens) and play hearts. West ruffs the third heart (uh, oh) and continues with...a diamond. Good news! I ruff my good diamond, and cash a fourth heart, shedding my last club and claim the contract. Every card was offside, yet I still managed to make the hand.

West is not happy with East. His initial salvo begins something like, "you idiot, can't you shift to a spade like a human being?" Hopefully, neither will trust the other for the rest of the match, but it was not to be. They calm down and play very well for the rest of the match, and we lose the first match 32-2. We shall have to do very well indeed for the rest of the day to win this event. Almost—we manage second, although not to this team! I wonder what happened to them.

When I got back to our teammates' table, I hear them discussing this hand. The "discussion" begins "you moron, can't you shift to a spade like a human being?" I guess it must have been a difficult hand to defend.

Notices

DECOMPRESSION TIME IS HERE AGAIN!!! (To be sung to the tune "Happy Days are Here Again!"). Decompression will be held once more in celebration of the coming of finals. Between 7:00 p.m. and midnight on March 11th and 12th, Decompression will be held in the Winnett Quad.

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

NEW "Do you have the luck of the Irish?" The Bookstore will be holding a raffle contest for a Pot o' Gold (chocolate covered coins); anyone purchasing \$2.00 or more at the bookstore until March 15th at noon can receive a raffle ticket.

NEW All Ye Net Surfers: The J. Paul Getty Museum now offers internet access for art-historic information, including nearly 50,000 records from everything from the Avery Index to the Architectural Periodicals to the In-

ternational Repertoire of the Literature of Arts. The Getty Museum's web site is: <http://www.ahip.getty.edu/ahip/home.html>.

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

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

Sharyn Slavin, Assistant Vice President for Student Affairs, and Stan Borodinsky, Student Affairs Administrator, invite you to stop by the Coffeehouse on Friday afternoons from 2 to 4 p.m. to talk with them. All students are

welcome, and free drinks will be available. Please drop by and get to know Sharyn and Stan. They will be happy to answer questions or provide assistance.

The AIDS Service Center presents "Just Say Know," a free educational support group that will explore different topics related to HIV and AIDS. "Just Say Know" will meet every Tuesday from 6:30 to 8:30 p.m. through March 21st at the AIDS Service Center, 126 West Del Mar Boulevard, Pasadena. To participate, call Tom Drake at (818) 398-4553.

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

"Take a Break and Spend Some Time with Friends." The office of the International Student Programs would like to invite you to our Open House for coffee, tea and conversation. Every Wednesday from 4:00 p.m. - 5:30 p.m. at the office of International Student Programs, Olive Walk. Open to the entire Caltech community.

NEW For more information about any of these announcements, feel free to contact extension 1543 at any time. How about just calling up and leaving a message about exactly how you feel about the Tech. Or about your personal feelings about Wei Hwa. Or about president Clinton's mustache. Your pentagram burning problem. Your sadomasochistic, semi-satanic habits. Your mother's vibrating collection. Or about how LSD makes you feel! Call today!

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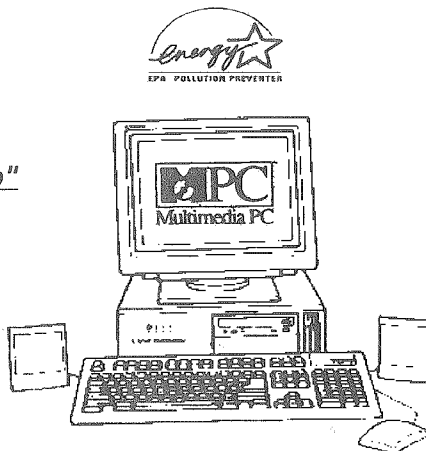


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ACCESSORIES

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420MB IDE \$195	Color Stylus 720 dpi \$515
540MB IDE \$215	ActionLaser 1100 300 dpi \$439
730MB IDE \$335	ActionLaser 1400 600 dpi \$669
1GB IDE \$485	LQ-570 \$255

Mother Board	Price
VESA 486DX2-66MHz w/o CPU	\$105
PCI 486DX2-66MHz w/o CPU	\$135
Pentium 66MHz 256k, w/o CPU	\$195
Pentium 90MHz 256k, w/2 16550C serial, EPP parallel, FD/HD controller	\$275

Monitor	Price
MGC 14" 1024 .28 NI "GREEN" SVGA	\$225
MGC 15" 1280 .28 NI "GREEN" SVGA	\$295
ACER 14" 1024 .28 NI SVGA	\$225
ACER 15" .28 NI, L.R. "GREEN", Digital	\$335
ACER 17" 1280 .27 NI, L.R. "GREEN"	\$615
CTX 14" 1024 .28 NI SVGA	\$235
CTX 15" .28 NI, L.R. SVGA	\$295
CTX 17" .28 NI, L.R. SVGA	\$595
MAG 15" .28 NI, "GREEN" SVGA	\$370
MAG 17" 1280 .26 NI, "GREEN" SVGA	\$635
NEC 15" XE15 .28 NI SVGA	\$595

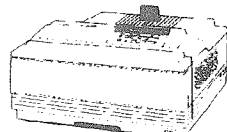
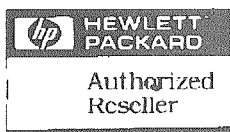
Fax/Modem	Price
14,400 (Internal) w/American Online	\$68
14,400 (External) w/Bit Com	\$95
14,400 PCMCIA w/Software	\$175
28,800 (Internal) w/Software	\$195

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

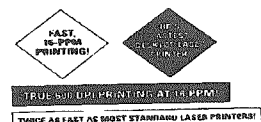
Multimedia	Price
Sony 2x Multisession Photo CD	\$125
Teac 4x Multisession Photo CD	\$235
Nec 3x Multisession Photo CD (w/o Controller)	\$265
Sound Blaster 16	\$95
Sound Blaster AWE 32	\$285
Creative Lab - Omni CD 16: 2x CD ROM, Sound Blaster 16	\$195
7 CD Title (Included: Encyclopedia, Aldus Photo)	\$195

Tape Backup	Price
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Conner 420MB (Internal) w/Tape	\$215
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From the Counseling Center

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

Talks, Lectures, and Seminars

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

Coming Events

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

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

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

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

Announcements

* denotes a new announcement.

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

Internships and Competitions

*This summer, from June 5th to June 30th, the University of Utah and Monument Valley High School, Navajo Nation, are sponsoring the second "Relearning, New Learning" Project. A teacher is needed, preferably an undergraduate, willing to teach geometry, LOGO programming, and similar mathematical skills to elementary, junior high, and high school Navajo students. No prior knowledge of LOGO is necessary, just some familiarity with computers and lots of patience! The teacher will work with a Navajo craftswoman, brought in to teach the students the ways and meanings of a traditional Navajo craft - rugweaving, basket-making, or beading, and an undergraduate TA/translator from the Navajo Community College. The hope is to guide each student into completing a computer-aided design that will be realized, either individually or as a group, in the craft-making classes. It is part of the design that the teacher will also learn one of the above crafts and complete a design, under the tutelage of the craftswoman. This is an excellent program, based on a meeting and mingling of cultural forms and technologies. If you're interested, contact Robert Rickenbrode by phone: 792-8798; or by e-mail: rkrri@cco.caltech.edu as soon as possible.

*The Beckman Internship will be available for the summer of 1995. The internship, supported by friends of Arnold Beckman, will pay a stipend of \$3600. It allows a selected intern to spend the summer working in the office of a politician and to see the inside process of government. The intern is expected to make arrangements with the appropriate political persons. It is open to any undergraduate who intends to be a Caltech student next year. If interested, submit a brief proposal describing where and how you would use the stipend, to the Deans' Office, 102 Parsons-Gates, by Monday, April 10th, 1995.

The Congressional Research Service, a department of the Library of Congress created to provide research, analysis and reference services exclusively to Members and committees of congress and their staffs, is seeking out volunteer interns to assist CRS analysts in two areas: Native American issues and issues in the Education and Public Welfare Division, such as current financial reforms. Volunteers will assist professional CRS staff in performing research and reference in response to public policy related inquiries. Some volunteers can assist in the development, planning, and coordinating of seminars and briefing programs for members and committees of Congress and their staff. Open to college undergraduates, graduate students, post-graduates, and professionals, candidates should have good research and writing skills, and knowledge of computer and statistical skills are a plus. Although there is no financial compensation, volunteers will be able to participate in the legislative process and develop their research skills in a prestigious public policy institute. Appointments are typically three months to a year, and applicants simply need to send an

application for Federal Employment (SF-117) or resume along with a writing sample, a cover letter with dates of availability, area of interest or expertise and two references from faculty members and/or employers to Warren Lenhart, CRS Administration Office Library of Congress LM-208m Washington, D.C. 20540-7110. There is no deadline on sending your application.

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

Club Announcements

*Caltech Shaolin Kung-Fu Club: learn & develop usage of classical kung-fu techniques, Chinese weapons, qi-gong, iron body training, meditation, proper stretching & holistic health practices. For further information, please contact Sifu Gene Black at (818) 359-1270, or Professor Steve Wiggins at 395-4127.

*The Caltech Anime Society will be organizing a special trip on Friday night to see "Wings of Honneamise," an award-winning movie detailing an alternative Earth's first venture into outer space. All are invited; if you are interested in attending, please meet in Purple Lounge in Lloyd no later than 7:00 p.m. On Saturday the Anime Society will be showing Parlor, episodes four through six, and Windaria.

*The Caltech Ballroom Dance Club intermediate swing and salsa class is this Friday, March 10th at 7:00 p.m. in the Dabney Lounge. Contact Bob Herman at rherman@arms.gps.caltech.edu, or at 393-4720, for more information.

The Caltech Ballroom Dance Club is now offering free beginning ballroom classes to all. Our beginning classes are Mondays at 7:00 p.m. in Winnett Lounge. No experience and no partner is necessary to join in on the classes. On March 6th we will learn the rumba, and in future classes we will cover the cha-cha, fox-trot, and swing. For more information, contact Bob Herman at rherman@arms.gps.caltech.edu, or at 393-4720.

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

The Caltech Folk Music Society are looking for more volunteers to help with mailing and publicizing their concerts, learning how to engineer the sound system, setting up before and tearing down after the concerts in exchange for free admission

and a great opportunity to schmooze with guitarists, songwriters, and bluegrass musicians. If you are interested in giving a few hours a month, or would like to receive announcements for each concert, give Rex a call at 791-4583.

Fellowships and Scholarships

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

Jewish Family and Children's Services announces the continued availability of financial support for Jewish individuals and their families. There are loans, grants and scholarships available, and students may qualify for up to \$5,000 in aid. The Financial Aid Office has a flyer and questionnaire that you can use to apply, or you can call (415) 561-1226. There are no deadlines and students may apply throughout the year.

Green Hills Software annually awards several merit scholarships in the amounts of \$2,500 and \$5,000 to Caltech undergraduates who have demonstrated ability and special aptitude in computer science. Those awards are for the Junior and Senior school years. In addition, Green Hills will award one or two Undergraduate Fellowships consisting of a Senior year scholarship plus a \$6,000 summer internship for the preceding summer. All awards are merit awards, given without regard to financial need. Any student currently holding a Junior year award must reapply in order to be considered for a Senior year award. The deadline for submitting the Green Hills Scholarship application to the Financial Aid Office is March 10, 1995. Applications are available at the Financial Aid Office, 515 S. Wilson, and the Dean's Office, 102-31.

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

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

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

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

The American Women's Club in Sweden announces that a travel grant will be awarded for study and research in Sweden. The amount of the grant will be equivalent to the cost of an APEX round-trip ticket between New York and Stockholm. To qualify you must be: an American citizen; female, age 18 or over; accepted for a period of study or research at a Swedish educational institution or agency; and show evidence of need. The completed

application and all supporting documents are due no later than April 15, 1995.

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

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

*Orville Redenbacher's 1995-96 Second Start Scholarship Program is offering twenty-five \$1,000 scholarships to students who are age 30 or older, enrolled, or who will be enrolled, in a degree program part-time or full-time on an undergraduate or graduate level. Applications are judged on the following 3 criteria, ranked in order of significance: 1. Entrepreneurial spirit, as reflected in the applicants 500-word essay, 2. Financial need, and 3. Academic performance, if applicable. Applications must be postmarked by May 1, 1995.

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

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

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

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

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