

THE MESSAGE IS
WE CARE ABOUT
PEOPLE WE DON'T
EVEN KNOW!

DILBERT®

by Scott Adams

see page 4

IT SEEMS ALMOST
UNNATURAL FOR ME
TO HAVE AN ACTUAL
GIRLFRIEND.

DILBERT®

by Scott Adams

see page 8

THE CALIFORNIA TECH

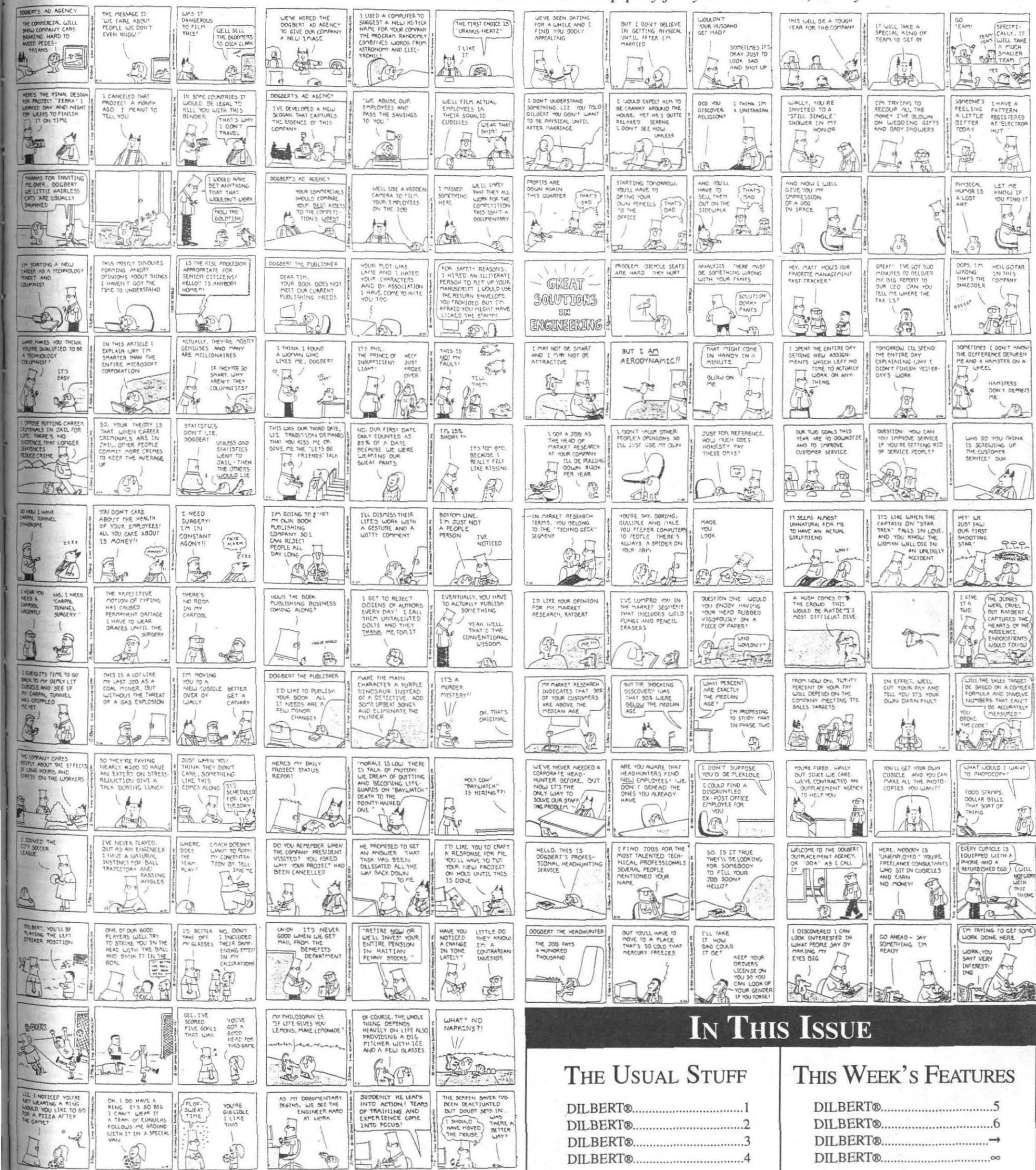
VOLUME DCLXVI, NUMBER 16

PASADENA, CALIFORNIA

FRIDAY, FEBRUARY 7, 1997

ALL DILBERT® ISSUE!

This is not a cheap ploy for your votes. No, really! We mean it! -eds.



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Just Kidding!!!

THE INSIDE WORLD

DABNEY

For some reason or other, I used to think that Page was a full of badasses. Maybe it was the beer room or grease frosh or the fact that people in Page are somewhat more athletic overall than the rest of the campus (with the exception of Fleming). I feel that it is my duty to let everyone know just how wrong that impression is. So, it all started

probably about a month ago when Miles (Dabney's man) came up to me and said "I'm thinking of challenging Page in women's boxing. You know for the disco challenge." Of course I was like "Yeah! We'll kick some ass!" Soon I had all sorts of scary looking boys showing me cool boxing techniques, etc. Although it was rather painfully

hard to get five girls from Dabney to understand just how potentially cool this sport is, I managed to compile a pretty rad team. So, that night me and another girl from the team went over to the Page dinner and personally insulted/challenged the whole house. On the night the challenge was to be issued, Miles compiled all imag-

inable insults and wrote one of the most obnoxious challenges I've ever seen. Now, you might think that, by this time, all the Page boys were out to kick my ass. Whatever! The next night we get the response and it's all like "Yeah, our girls could beat the shit out of Agi, but we're accepting in soccer."

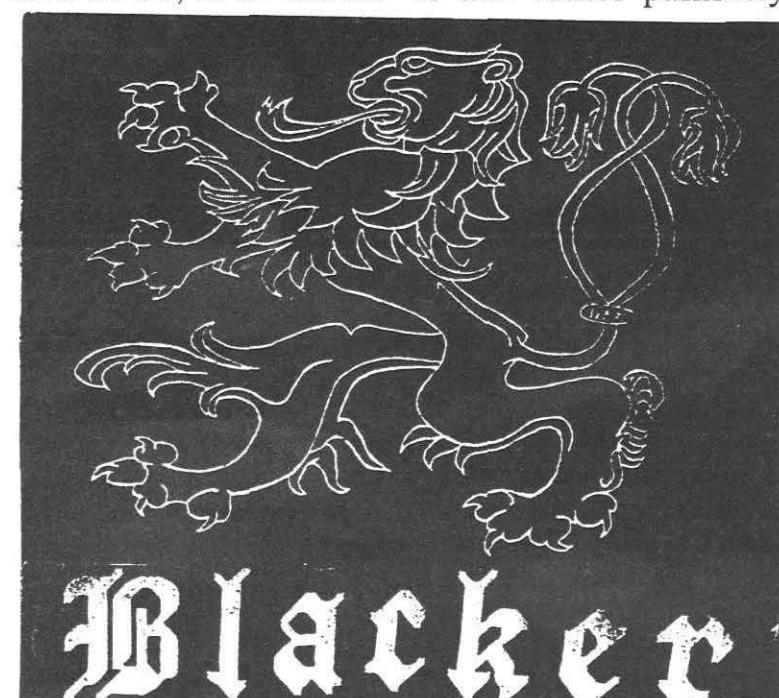
What the fuck? The whole point of the chal-

lenge was to prove that I could mess up the Page girls! Truth is that I'm not even sure that I could win there are some pretty mean looking girls in Page, I would not feel ashamed of losing to. I just want to box!

To all you Page boys reading this: get real pissed, cause we'll keep talking shit till you grow the balls to accept.



Bambi Gates



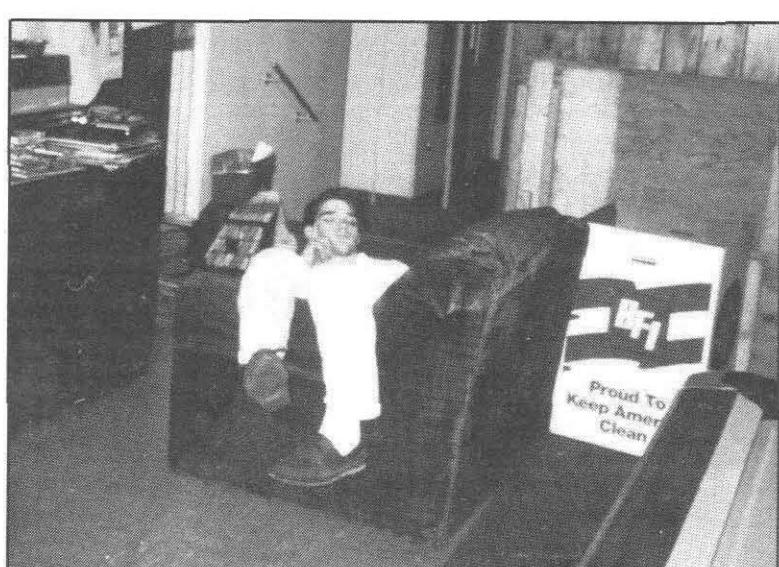
Blacker

HERE TODAY GONG TOMORROW

Q: What happens when mole frosh get bored at 5am?

A: Lloydie gong frosh get all wet.

After their poor gong was retrieved from a tree it didn't look too great. Fortunately, the mole frosh were nice enough to redecorate the gong in an appropriate fashion for Lloyd. - γδβγ



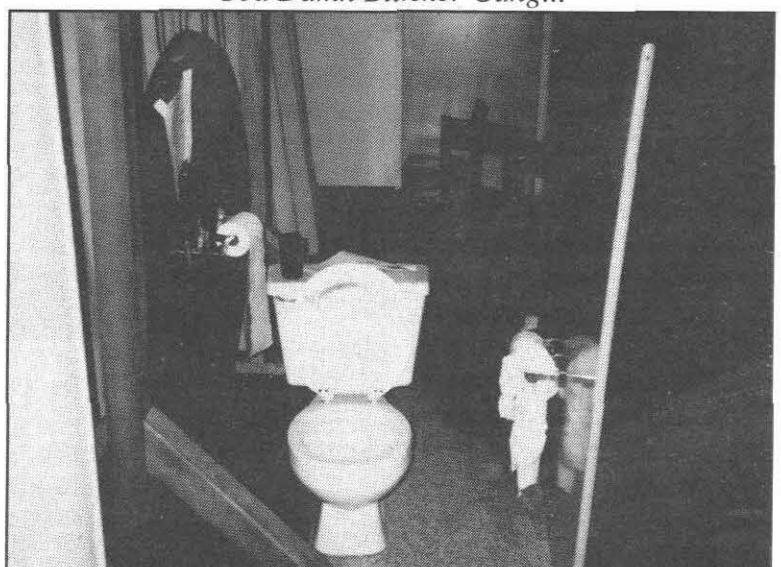
While the Lloydie War Lord was sleeping...



Chains, locks, duct tape, but no gong.



God Damn Blacker Gang...



Please leave the seat down.

THE INSIDE WORLD

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VOLUME XCVIII, NUMBER 5
18 OCTOBER 1996...OR SOMETHING
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Ryan Cox

AND THE NUMBER V AND THE LETTER φ

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ASCIT Elections are
Tuesday. Vote for your
favorite Tech Editors.

see page 7



SOMETHINGS YOU CAN'T MAKE UP, OTHERS YOU HAVE TO.

Dilbert's here again.

see page 9

THE CALIFORNIA TECH

VOLUME XCVIII, NUMBER 16

PASADENA, CALIFORNIA

Friday, February 7, 1997

FUNC increases demands

BY ERIK STREED

On February 4, the Forget U.S. News Coalition (FUNC) announced a call to school administrations to refuse to submit data for the U.S. News & World report's Annual college ranking and survey. FUNC is an organization of about 75 student governments who have passed resolutions against the U.S. News and World Report College ranking. Colleges and universities in this group include Smith, Harvard, University of Pennsylvania, and Caltech. Citing administrations acting against the best interest of students by pandering to the ranking and the subjective nature of the ranking formula,

FUNC encourages schools to follow the lead of Reed College in withholding data. Alex Reid, a student at #1 ranked Yale said, "U.S. News provides useful data. However, their overall ranking system has a negative influence on our education system. We want them to provide the same data but to list schools alphabetically, instead of ranking them with a falsely precise formula that changes unpredictably from year to year. If they must rank, they should do it by category." FUNC was founded by students at Stanford upset with the University's creation of the Stanford Fund to intentionally improve its ranking in the Alumni giving category.



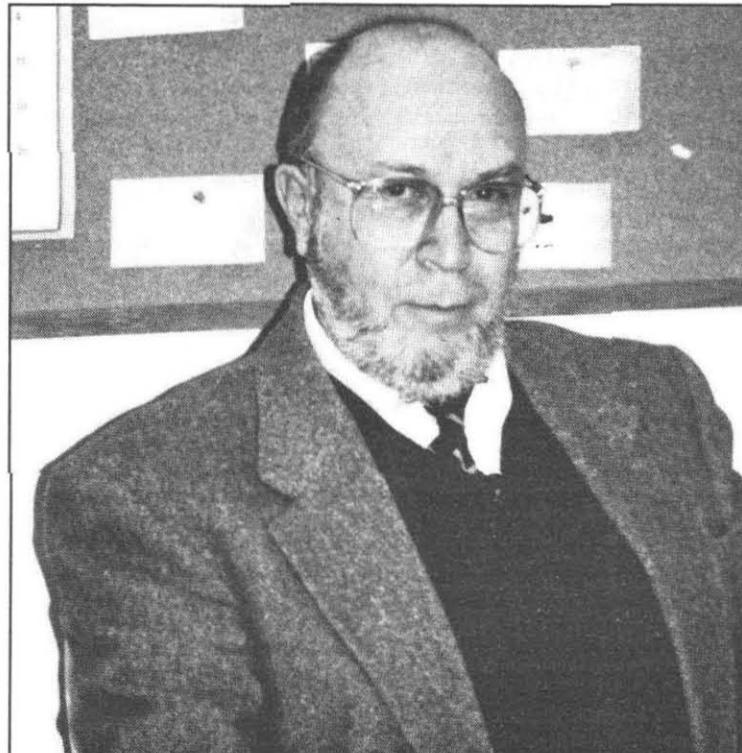
Yesterday, Stephen Hawking finally conceded a bet from 1991 with Kip Thorne and John Preskill. He accepted that it is theoretically possible that naked singularities could exist, although the circumstances for their existence would be very unlikely.

Technology Transfer Office Takes Off

BY SAMSON TIMONER

When Larry Gilbert accepted the directorship of the Technology Transfer Office, he proposed a program that over 10 years he thought would add an astounding \$75 to \$100 million in equity to the \$900 million Caltech endowment. The administration was skeptical. But, in the first year of its existence, the Technology Transfer Office has added \$2 million in equity to Caltech's resources, making Larry's projection potentially feasible.

The Technology Transfer Office was started in December 1994 based on a proposal submitted to Vice Provost David Goodstein by Chief Patent Counsel Mike Keller and Earl Friese, then director of Sponsored Programs. At the time, licenses for Caltech and JPL patents were generating about \$2 million a year in gross income. The hope was that the creation of a Technology Transfer office would increase Caltech's royalty income to about \$5 million a year and increase sponsored research from the private sector, thus increasing overhead income. Larry had a slightly different idea. He believed that by encouraging start-up companies from Caltech inventions, and having Caltech take equity (stock) in those companies in exchange for smaller royalties, he could generate more money for Caltech. Mr. Gilbert explained, "By spinning off 8 to 10



startups a year, you would have somewhere between 75 and 100 startups in ten years. You expect two to three percent of those to be very successful and a few others moderately successful so that you have an equity value somewhere in the range of \$75 to \$100 million at the end of the ten years." This aggressive plan was ratified by the faculty at the end of 1995. So far, the data indicates that \$100 million may not be an unreasonable goal. In March 1995, Caltech had \$0 in equity in small startup companies. By March 1996 that number had climbed to \$2 million in equity. By March 1997, Larry estimates that the \$2 million will

have been multiplied by between a factor of two or three.

The Technology Transfer Office does more than try to create value for Caltech. While its goals include increasing invention disclosures, patents and licensing agreements, its goals also include providing an additional pathway for student employment and creating a friendlier environment between industry and Caltech. Perhaps more importantly, the job of the Technology Transfer Office is to create an environment where Caltech professors are comfortable licensing their technology.

SEE TTO ON PAGE 6

SURF kickoff dinner starts year of student research

BY JOHN HATFIELD

The SURF dinner kicked off the nineteenth year of SURFs this year. SURFs, or Summer Undergraduate Research Fellowships, provide a unique opportunity for undergraduates to do original research. The dinner was held on February 5, 1996 to commemorate the start of another season of SURF. Thomas Everhart was the premier speaker, giving a talk on the history and development of SURF over the last nineteen years.

The first speaker was Nasim Afsarmanesh, who gave a talk on her experiences this summer during her SURF project which she described as a major influence in her life. She researched how the Yellow Fever virus interacts with a host cell. She

described the hard work and frustration that is inherent in a SURF, but she also described the elation that is part of a finishing a part of her project successfully.

The Dinner was also to commemorate Harold Brown. The commemoration was due to Harold Brown's due to unstinting dedication to undergraduate education at Caltech. A president of Caltech in the seventies, Harold Brown was characterized by his decisive manner in leading the institution. After becoming the Secretary of the Air Force while still in his thirties, he came to Caltech to be president and was instrumental in the beginning of the SURF program.

SURF has been an institution at Caltech for the last

SEE SURF ON PAGE 13

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LETTERS TO THE EDITOR

Caltech's mascot is an example of sexism at work

Dear Editors,

I was appalled and dismayed upon reading Myfawnwy Callahan's letter to the editors last week titled "Many women like it here!" Ms. Callahan, to be blunt, must be unusually obtuse not to realize that bias against women is a fact of life at Caltech that goes to the very core of the Institute. Even worse, though, is the fact that many apparently share her fundamentally flawed view of Caltech. These people do not realize the extent to which sexism is ingrained in the traditions and culture of our school.

A prime example of sexism here is our choice of mascot. The not-so-subtle sexual innuendo implied by "beaver" is surely missed by none, least of all the unfortunate female athletes who play for a school that labels them with a misogynistic epithet. Many a game have I cringed upon hearing boorish Techers chant "Beaver fever, beaver fever, snatch it!" I in fact attribute my less than mediocre performance during my two weeks on the fencing team to that unfortunate choice of team name.

Further contemplation on the issue leads one to wonder why, in fact, do we call ourselves the Beavers (other than the reason listed above)? In general, team names are meant to inspire fear in opponents, or reflect a laudable attribute in the creature that is characteristic of the team and school in general. UC Santa Cruz is a good example. So, what exactly about beavers do we admire? I can hardly think of a single praiseworthy feature of these rodents. In fact, beavers are known to be an environmental scourge, contributing to a worldwide epidemic of deforestation. In addition, beavers are vectors for a host of diseases like bubonic plague and ebola. Furthermore, Mussolini was known to be particularly fond

of the insidious little beasts - Il Duce, roughly translated, means Death Beaver.

Clearly, our school needs a new mascot. The question is, what should it be? I propose that a committee, preferably chaired by Professor "Rod" Kiewiet, be formed to solve this problem. I can even suggest some possible choices. For example, I think the "Caltech Naked Mole Rats" has a certain innate appeal. Naked mole rats are known to be among the most pink of animals, and have an intelligence rivalling that of Senator Jesse Helms. In addition, naked mole rats bathe regularly, setting an example for us all. Besides naked mole rats, I also approve of the Wild Ass. Not only would naming ourselves after it make our teams more fearsome sounding, it would draw attention to the plight of an endangered species as well. The Caltech Mighty Newts is also a good choice. As amphibians, newts have the ability to breathe underwater through their skin, which would be an inspiration to our swim teams. Also, if the correct people in the House of Representatives hear that the newt is our new mascot, we could receive Congressional funding for our athletic program!

All in all, I feel that these are issues that more of us should consider in our daily lives. I welcome further discussion, preferably in the form of a series of outraged letters to the editor that persists for months. Feel free to e-mail me as well, at root@ugcs.caltech.edu. I hope to hear from you soon.

NEAL DALAL
UNDERGRADUATE

Circle of Reason

Dear Editors,

Upon reading Mr. Collins' *Circle of Fire* last week, I was immediately compelled to write and discuss my objections to it—not grievances which arose because of the opinions which he spouted forth, but instead a pro-

test to his supercilious and condescending style. I had long ago decided not to dignify Mr. Collins' articles with a response, (for what is incendiary writing if it does not elicit some disapproval?), but I was so indignant after witnessing his latest example of pedantism that I felt as if I had no other choice.

My primary dissatisfaction in Mr. Collins' column lies in the way he ends it every time: "*It really is that simple.*" For him to claim so matter-of-factly that his *opinion* on the subject is the answer to the problem is ostentatious at best. Moreover, it is always quite easy to formulate a simple solution to every problem, and in today's society of quick-fixes, the lure of an easy and uncomplicated answer is often too great. Who needs to think things through and change his opinions when there are easier responses out there? This quick-fix method is the same technique used by political commentators such as Rush Limbaugh, who would rather find a simple and easy answer which is based upon their opinionated views than look at a problem objectively and realize that any societal problem will take time and effort to alleviate. The key to making our country a better place is not simply to spout easy answers and opinions and declare that the solution "really is that simple;" it's to look at the problem long and hard from everyone's viewpoint and find an answer which best suits all groups involved. As an example, take the welfare crisis. The best solution is neither cutting back welfare so sharply that we remove the "safety net" for millions of impoverished Americans, nor is it throwing money at the problem until it goes away. Any difficulty in our complex society today must be repaired not with simplistic answers but with time, effort, and compromise.

Even Mr. Collins admits that he "failed to address" certain issues in the matter of seat belt safety laws, issues which a responsible and informed reader brought to light. Well, in that case, the answer wasn't really "*that simple.*" was it Mr. Collins? Yet he still ends his columns with

the same buzz phrase, making me think that he believes his articles to be all-encompassing fact rather than opinion.

Although my objections to the *Circle of Fire* are usually unrelated to its content, I would like to point out a concern about last week's article. I do agree with Mr. Collins that people should take responsibility for their actions and their shortcomings. I was, however, rather dismayed at the "mainstream excuses for... failure" which he cited. I am sure, Mr. Collins, that you did not intend to imply that there is no racial or sexual discrimination in our country and that all instances of such simply arise because the minority or woman involved was too stupid to earn the job. Nonetheless, making generalizations about discrimination and sexism simply being excuses for incompetence trivializes deep-rooted dilemmas in our society. In fact, it gives people another excuse to use—if someone accuses you of being prejudiced or sexist, you can simply say that he/she is only making excuses for their own failure, and you don't have to consider the possibility that you are wrong.

Now, I don't think that this is the message which Mr. Collins intended to convey with his article. But the all-knowing tone and condescending manner in which he wrote his column made me wonder if it was what he really believes—he certainly didn't sound as if he thought that he had any faults or failures of his own.

Finally, I would like to object how Mr. Collins treats other people in his articles. Calling someone you don't even know "stupid" four times in five consecutive sentences is not just condescending; it's downright childish. And his prejudiced description of overweight people as "grotesque" was a blatant exercise in poor taste—I know I was not the only reader offended by this comment.

Mr. Collins, you can continue to write the *Circle of Fire* in such a patronizing manner and inform us of your opinions on each and every aspect of society. But please don't claim that the answers to our problems are "really

that simple." Opinions may be simple to find, but good solutions require time and effort.

ISHNAFERITSU
UNDERGRADUATE

Happy media

Dear Editors,

Ron Dollete's interesting piece on Oliver Stone in your issue of January 31 was spoiled by his use of "media" as a singular noun. It is, as every educated person should know, the plural form of "medium." Here is a quote from Merriam Webster's Collegiate Dictionary, 10th ed.: "The singular 'media' and its plural 'medias' seem to have originated in the field of advertising over 50 years ago; they are apparently still so used without stigma in that specialized field. In most other applications 'media' is used as a plural of 'medium.'" That should convince anybody.

NORMAN HOROWITZ
EMERITUS PROFESSOR, BIOLOGY

Dr. Horowitz is right; the copy editors would like to note that two incorrect singular verb forms appeared on page 10, and they deeply regret the error of [their] ways, and join Prof. Horowitz in exhorting the masses to cease abusing the word 'media.'

-eds

Deadline for submissions is Monday at 5 p.m. of the week of publication.

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

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Tech Women Respond to "Babes and Bitches"

Dear Editors,

The recent article "Babes and Bitches" angered me. In attacking Caltech men as a group the article degraded my friends and colleagues. I feel that the article unjustly classified the men on this campus as disrespectful and sexist. In fact, I am treated with a great deal of respect here. I work with Caltech men as equals every day; I talk and laugh with them; I have developed valuable friendships.

I enjoy being a woman at Caltech.

Natsuko Koy
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Lynn Brinell
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Anne Kelly

The Outside World

by Myfanwy Callahan

ALGIERS - A group of about fifty men wielding knives and axes decapitated 31 in a small village near Algiers. The band began attacking villages with the start of the holy month of Ramadan two weeks ago.

BELGRADE - President Slobodan Milosevic announced he would reverse his decision to annul the November 17th election, which favored opposition leaders in 14 of the largest cities. Tear gas and beatings from riot police failed to quell protesters in the capitol earlier this week.

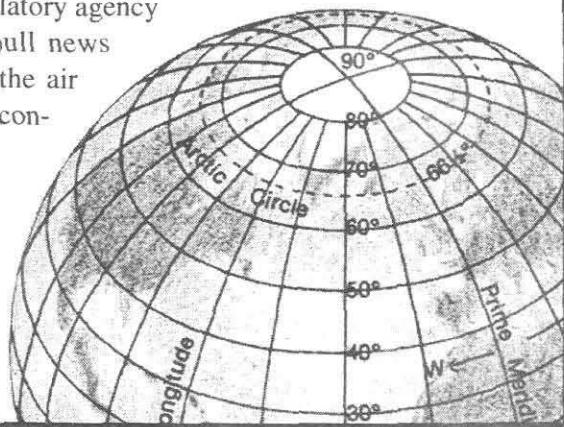
BOGOTA - The Columbian army sent hundreds of reinforcements into the mountains outside of the capitol to combat guerrillas of the Revolutionary Armed Forces. Furthermore, the Columbian Congress granted a regulatory agency authority to pull news programs off the air on the basis of content.

ISLAMABAD - The Pakistan Muslim League returned to

power after Nawaz Sharif was elected Prime Minister in a landslide. If this government finishes its five year term, it will be the first civilian government to do so in Pakistani history.

NAIROBI - Five UN workers, unarmed and without escort, were ambushed and killed in Rwanda. This is the latest in a series of killings aimed at foreigners over the last two weeks.

WASHINGTON, D.C. - Clinton emphasized support of education, new technologies, and public health care in his State of the Union address Tuesday. Some of the address was shown on a split screen to detail the result of the recent O.J. Simpson trial. To read the full State of the Union address go to <http://www.whitehouse.gov/WH/SOU97/>



ON CAMPUS
February 27th



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The benefits of a militia

BY NEIL STEVINS

"I thank God when men who believe in the right and duty of wielding lawful weapons are so advanced that they will take those weapons out of the scale of despotism and throw them into the scale of freedom. It is an indication of progress and positive moral growth."

— William Lloyd Garrison

Since the Oklahoma City tragedy, the American people have questioned the merits of a citizen militia, independent of the government. Private citizens arming themselves with all sorts of weaponry are vilified, lumped together as "right-wing extremists", "separatists", and all sorts of names.

While the various forms of terrorism wreaked upon this nation recently are abhorrent, they do not lessen the need for the ultimate check in our balanced government. Since the Minutemen, this nation has



been served by individuals who stand ready to fight oppression, whether from outside, or from within our own government. I know what you are thinking: "We are in absolutely no danger; the U.S. is possibly the

most free nation on Earth. Why do these nuts need assault weapons?"

I say we need them because there is no danger. If independent

militias are ready for combat, we will never need to fear a hostile government. The combination of the U.S. Armed Forces with the militias will

make outside threats useless, and the readiness of the population will ensure that our own government never crosses our liberties.

Please do not stop reading. I know perfectly well that President Clinton has no inclination to invoke martial law, or even come close. But that is now. We have no way of knowing what is in store in the future. The federal government holds far more power now than it did in 1789. Who knows what authority it will wield in 2089? There is no harm, and a potential good, in maintaining a citizen army to prevent any future problems.

As far as potential dangers, we must be careful. If militias were more openly accepted, the public at large would have more input into their activities, thus nullifying the extremist fringe. James Madison wrote in The Federalist Number 10 that a large republic nullifies detrimental factions. The same principle applies to militias. If we all become aware of them, and influence their behaviors, then they will return to the purpose they have always served: to rise up in a minute, and defend our freedom.

If independent militias are ready for combat, we will never need to fear a hostile government.

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MIND STALK

by D.R. Sullivan

On Brown's column

I agree with Myfanwy Callahan and Andrew Huntington that Cherish Brown's column of two weeks ago does not describe my local reality, but I am not convinced that it was without merit. It is generally admitted that there are cultural differences among the seven undergraduate Houses, and what strikes me is that Callahan and I are from Dabney, and Huntington is from Ricketts, while I believe Brown is from Lloyd or Ruddock. I have not seen or heard of much sexual harassment in Dabney, true. I have not had enough to do with Ruddock to have heard of harassment there either, but at least a few years ago I know it produced the *BFD*, a rather crass and risqué publication. I do not think it impossible that Brown seems to be writing from a different planet because, in fact, she is. I have not heard men talk about 'babes' and 'bitches' (although I have hung out, on average, with one and a half males) but Brown says she has, and I trust at least her sincerity.

Appealing to gorillas was unfortunate, however. While dolphins reportedly engage in both rape and group defense against it, my third-hand recollection is that Galdikas has said orangutans largely reproduce by rape. Arguably that is their selection for fitness: if the male can't overcome the female, he isn't fit enough to breed. In general, appealing to the natural kingdom for moral arguments is a risky business at best.

On the Responses

But whatever the merits or lacks of Brown's original column, some of the replies were quite uninspiring. Bennett and Lauctus claim "Neither men nor women have much time to analytically categorize their peers as sexual objects or otherwise." This claim seems bizarre. It requires leisure to appreciate other humans for the individuals they are; categorical classification is precisely what is done as a time-saving heuristic. For a lonely, frustrated, and far too busy person to classify others into people to get help on homework from, people to sleep with, and rocks, is quite plausible. If this is not what is done (and I do not think that it is) the reason is not from lack of time.

Mason Porter writes "She condemns nearly half the human race sexual oppressors." [sic] "...I would love to see what would happen if a male wrote the equivalent article from his point of view." As Brown replied, if a male tried to claim that the female half of the human race consisted of sexual oppressors, he would be laughed at. While I deny that men are intrinsically oppressive, the fact is that throughout most of history, and most of the world today, power, liberty, and self-determination have been possessed by men. Some women found chinks to slip through; many men haven't had much power at all. But they have generally had more than their women. This does not justify Brown's sweeping generalization, but it may understandably fuel her anger at more local practices she is offended by.

The Solution

It is generally admitted that the imbalanced gender ratio is unhealthy. The obvious solution is to balance it. "But no!", I hear, "there aren't enough qualified women! We'd have to lower standards!" Silly boys. There is another way: *Admit fewer men*. Admit as many qualified women as are in the application pool, and then admit that number of men. We'd have half-size classes for a while, and Caltech would lose some undergraduate tuition, but it would make a happier experience for those here — of both genders — and make the school more attractive to future students, so that the classes could then be brought up to size. And if gender problems here are related only to the ratio, and not to male attitudes, then the problems would go away. This isn't a "Modest Proposal"; I'm quite serious. And this needn't be seen as affirmative action, certainly not in any conventional form. We would simply be saying that given that the community Caltech students live in is pretty much themselves, and that the percentage of women seems to be a large limiting factor of happiness in this community, the number of men admitted would be limited to ensure the happiness of both those admitted and rejected.

CIRCLE OF FIRE

"ONE FLAME A WEEK - MY PROMISE TO YOU."

BY AUSTIN COLLINS

It was a tough call this week. Two topics each presented themselves to me this week, and each was equally deserving of a good flame. In the end, though, one prevailed;

Heritage.

There's a lot of talk about heritage these days. My last article touched on this just slightly, but even that slight mention provoked a response. An unhappy one, even. See, in my last article I referred to a certain minority group as 'black'. With great emphasis, a person undertook to correct me, informing me that the correct term was 'African American'.

Thinking about this, I realized it would take some more thought. After some more thought, I realized that this claim was, in fact, a load of hogwash. The vast majority of black Americans have not had African ancestors for at least five generations.

Thus, the term 'African American' isn't inaccurate, but it is misleading. It implies a separation of the two that ought not be there. In all of the writings I have seen on the issue of race, and heritage, the single most eloquent example of this separation I have seen was in a movie. *Dragon: the Bruce Lee Story*, to be specific.

In a truly moving moment, Bruce Lee and his fiancee confront her mother with the news that they are to be wed. To this news, she reacts with the question, "But you're white, and

you're yellow. What will you child be?" To this, Bruce Lee replied, "He'll be American."

Not Chinese American, or even an American of Oriental descent. Just American. This should be enough...but it's not. These days, the emphasis seems to be on the Chinese in Chinese American, or the African in African American. Even Latino is just another way to avoid simply being American, in the end.

People have made the argument to me that they put the 'African' in front of American because they are more proud of their African heritage than they are of their American citizenship. While this is the extreme edge of the spectrum, it reflects a growing trend of dissatisfaction with American government.

Now there are problems with American government, I

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admit it. By and large, however, people have been so spoiled by the luxurious nature of American life that they mistake these problems for real problems. Let's do a quick comparison:

• Federal Budget Deficit

45 people killed in one day by anti-government terrorists. In this particular instance, the rebels went into a village, gathered 45 people together, and slit their throats one by one. Most of the victims were women and children as the men were off at work.

• Race relations

In Rwanda, more people were killed in a six week span than in the entire American Civil War. The people killed were members of a particular ethnic group — the unarmed one. Recently, the armed ethnic group has taken to killing U.N. peacekeepers, too.

• Homelessness

To my knowledge, the United States Government has never ordered its troops to systematically rape women in an effort to 'cleanse' a gene pool.

• Health Care

As much money as we spend on tanks, we have never used them to roll over protesters.

Get a grip, people. You

live in the single most stunning example of human achievement that currently exists on this planet. The above list contained problems in Europe, Africa, Latin America, and China that dwarf even the worst aspects of life anywhere on the North American continent.

It has gotten to the point that the rest of Europe will refuse to even attempt an operation without substantive American logistical support. Most recently, they said that a human rights mission to Africa would not be attempted without US support. Why? Because they simply didn't have the infrastructure to do it. The entire UN could not accomplish a task without the aid of the United States of America.

Yet, somehow, people do not trumpet their American

pride nearly as much as their ethnic pride. This, to me, is the definitive problem with America right now. We live in a society in which almost all of the problems are caused by our own restlessness.

So stop a moment, and think about it. The United States is an amazing place to live. While a sense of heritage is priceless, so is American citizenship. As proud as you may be of your ancestry, aren't you glad that you live here instead?

Stop your whining, and take a day or two to simply enjoy life as an American. There's a lot to celebrate in between the bouts of criticism. America is the land of the free, and the home of the brave.

It really is that simple.

"Cyrano: So, this is your revenge?"

"Compte de Guiche: Take it to mean I serve my King, and vent my spleen."

-Rostand

Hardware Engineering positions at National Instruments

You did the college thing. (Congratulations, by the way.) Now go for something bigger - a life. Better yet, have National Instruments give you the tools to build exactly the one you want. A job that gives you the freedom and support to kick some serious you-know-what in your career. The inspiration of working with some of the most brilliant, creative people anywhere. The realization of what you are truly capable of accomplishing.

We don't just talk the talk, we walk the walk. In 1976, National Instruments started pioneering Virtual Instrumentation- hardware and software products that transform computers into incredibly versatile instrumentation systems. But we're relentless in our push to stay at the forefront of both computer and instrumentation technology. Our LabVIEW graphical programming language is the talk of the industry. We've tripled our business since 1991. Our stock price has more than doubled its initial public offering price of \$14.50 in 1995. Forbes Magazine ranked us 53rd in its list of the best small companies in America. And National Instruments has gone global, growing to more than 1,200 employees across North America, Europe, and the Pacific Rim.

Help Wanted: Our healthy growth rate and our promote from within policy keep us looking for top engineering graduates and bring us to Caltech to interview for hardware engineering positions. But don't call them entry-level positions; new hardware engineers get a fast start, usually managing their own projects throughout the entire life cycle of a product. New engineers find themselves working closely with our manufacturing, marketing, sales, and customer support staffs

to ensure the success of their products. They also find engineering managers and mentors working closely with them to ensure the success of their careers. (It's no coincidence our managers are just 30 years old on average.) We know our company can only do great things if our people do great things.

Joining the Best. So you might be asking yourself, what does it take to get on at National Instruments? Plenty. Plenty of smarts (outstanding GPAs, please). Plenty of initiative (if you see something that needs improvement, take charge!) Plenty of self-sufficiency (babysitters aren't on our payroll). Plus, you've got the savvy and skills to thrive in an environment that changes quickly.

Check us out! If you are graduating with a BS/MS in EE, CS, or E&AS and are interested in – make that obsessed by – analog, digital, or ASIC design, sign up for an interview. Even if you're not graduating or interviewing, stop by the information session or our booth at the career fair to meet one of our engineering managers (Garrett Foote, BS '92, Caltech) and learn more about us and our employees. And next time you're surfing the web, stop by our site: www.natinst.com.

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Should the BoC allow silent observers?

Currently, according to the ASCIT Bylaws, a defendant has the right to bring a member of the Caltech community to accompany them in the waiting room while the BoC deliberates. The bylaw change suggested would allow the defendant to bring a silent observer into the actual hearing. This suggestion would change the current bylaw as shown below:

Article VII: Section 3 (I)

A defendant attending a hearing of the full Board may be accompanied by any one member of the Caltech community of his own choosing, to keep him company during waiting periods outside of the hearing. *This person may accompany the defendant during waiting periods, and at any part of the hearing where the defendant is present. This person must not disrupt or interfere with the proceedings of the Board in any way, and shall be immediately removed at the Chair's discretion if such disruption occurs.* This person ~~may not witness any part of the actual hearing, will be bound by secrecy as set forth in subsection (s) for all witnesses, and must not interfere with the normal proceedings of the Board.~~

YES

BY BRIAN
BIRCUMSHAW

The idea of a silent observer is for the defendant. Most defendants (and often witnesses) are very nervous and out-of-sorts when they appear before a board of 9 to 11 peers trying to decide their fate. Having a friend as a silent observer will undoubtedly make the defendant more comfortable before the Board of Control (BoC). This will, in turn, allow the defendant to more accurately present his/her story as well as answer questions from the Board. Moreover, it will be beneficial for the defendant to have a person who knows what happened. The defendant, both in the waiting room and after the case, will have a person who is familiar with the proceedings to confide in and take comfort from.

Having a silent observer will also provide a check on the proceedings of the BoC. Many in the Community are not comfortable with the shroud of secrecy that surrounds the questioning of defendants. Now, if the conduct of the board is in question, the Dean will be able to call on the silent observer for his/her views.



No

BY ROBERT
SALIBA

One of the great redeeming qualities of the Board of Control is the respect that every defendant receives, regardless of the outcome of hearing.

Part of this respect is the confidentiality of every Board action. While in the simple case it is very easy to have an unrelated friend at a hearing, what if there are two defendants with a mutual friend? What if a defendant wants to prevent anyone else from knowing about the verdict, but can't avoid a friend's well-meaning efforts to help them out? In any case, under the existing system, a friend is allowed in the waiting room, where the defendants spend much of the hearing time.

So, what is the point of having friends in a Board of Control hearing? They won't be able to say anything and they can't bail you out if you get into trouble. The only real effect that a companion will have is to make the Board's efforts to protect the defendant more difficult.

TTO: Making Money

CONTINUED FROM PAGE 1

Larry tried to create trust and confidence with the faculty by making individual presentations to more than 100 professors at Caltech. Mr. Gilbert noted that, "They[the faculty] are the beginning, the middle, the end; they are the whole business. The faculty are the magnets that attract the business community to their research. Without the faculty's cooperation in providing invention disclosures, there is no program to administer." Larry has tried to demonstrate to the faculty that the Tech Transfer Office(TTO) provides added value by making it easier to license the technologies they discovered. Also, the TTO can assist the faculty in attracting research donations to their laboratories by making creating a creating a more congenial relationship with industry.

The TTO carries out its goals through in a variety of ways. A key program, the Grubstake program, is funded by a generous gift from Charles Gates. A grubstake is what the forty-niners would call the small amount of money saved to go buy a pick and shovel so that they could go off and try to make their fortune in the gold mines. The idea behind the program is to fund a professor for one year to decide if a concept for a commercial product is feasible. The fund provides a professor with \$30,000 to \$50,000 to hire a student or post-doc for one year to do a study. "We are doing four to six[Grubstake grants] a year due to money constraints," bemoans Larry, "I'd like to be able to do eight to ten a year."

Last year was the first year Larry administered the program and four grants were issued. After the Grubstake grant, if a product looks feasible, there can be a second phase to the process. In fact, one of last year's four grubstake grants is in now in that phase.

The second phase consists of making a prototype product. This is where outside funding must enter the picture. "It typically takes a couple of years and a half a million dollars to get through that stage," notes Larry Gilbert. In phase II, Caltech can provide several resources to the venture, most notably space in a laboratory; but Caltech will not provide money—it must come from an outside source. "In all of these situations, the technology is licensed because of the activities of the faculty... Either they are knocking on the door saying they would like to form a company, or people are approaching them that may be brokers or entrepreneurs who want to license their technology." Larry does not go out searching for companies or entrepreneurs to do this. He says that trying to force products on industry does not work: "We[Caltech] are not out knocking on doors and contacting CEO's with our laundry list of goodies saying, 'You can take one from menu A, and two from B'. I find that in situations where universities have tried to this, in the best case, they generate a lot of paper work. In the worst case, they annoy the companies. The companies spend a lot of time, effort and money to do what the institute is

SEE TTO ON PAGE 16

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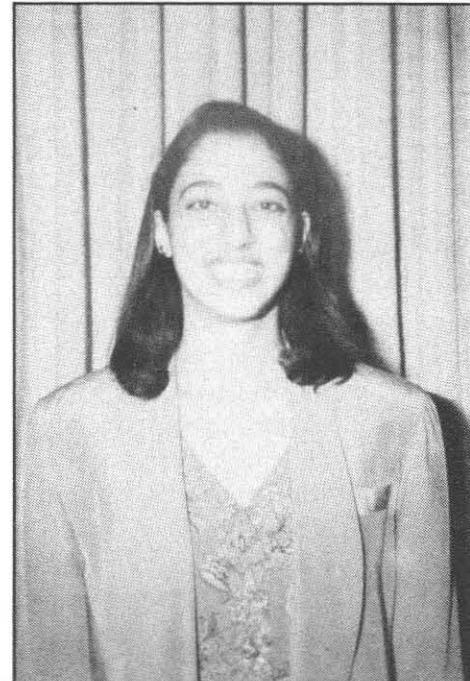


✓ ASCIT Election 1997 ✓

ASCIT SECRETARY

Nasim Afsarmanesh

As I was walking down the Olive Walk a couple of days ago, I was thinking about all the important qualities of the ASCIT Secretary. I went over all the duties and I finally decided that the most important qualification of the ASCIT Secretary is that she should have a cute signature :) Well, it seems like I'm already qualified for this position. However, there are a couple of other qualifications that you might want to consider before you vote.



The ASCIT Secretary is in charge of a few very important things in ASCIT. For these significant duties the Secretary needs to have several qualifications. First, the ASCIT Secretary is the "official keeper of ASCIT records". In order to keep track of all the records the Secretary needs to be an organized person. So far, I have helped and served on a number of committees throughout campus such as the SURF Student Advisory Committee and the Pre-med Club. I think as far as organizational skills are concerned I'm pretty qualified. However, I think that the most importantly important qualification as the keeper of the ASCIT records is that the Secretary needs to have a large cabinet with lots of room. That would definitely not be a problem for me. The ASCIT Secretary also needs to "edit the minutes of the weekly ASCIT Board of Directors meetings". To complete this duty, an important qualification is that the Secretary needs to do everything on time. They can not put off their duties since it will affect a large number of the student body who are eagerly and enthusiastically waiting to read the weekly ASCIT minutes. For this, I promise concise and precise ASCIT minutes that will let you know the about the decisions reached by your Board of Directors. An important qualification that I have that will help me with this aspect of my duty is that I can read and write (don't laugh, we're at Tech, we might be able to

solve the Schrödinger equation, but that doesn't necessarily mean that we can read). The ASCIT Secretary also needs to "distribute" the minutes of each meeting. I will make sure that all the minutes are distributed properly and on time. I think that for this task, the Secretary needs to know how to use the copying machine and she needs to be capable of walking all the way to the mail box to drop off all the minutes that need to be distributed. Having been part of the Women's Basketball Team for two years now I feel that I have developed the strength and endurance to complete this task. Last, but not least, the ASCIT Secretary needs to be a "goofball". Well, that will definitely not be a problem.

All joking aside, I take the job of the ASCIT Secretary very seriously. I care a great deal about Caltech and I want to serve you by being part of the Board of Directors. I feel that ASCIT makes a number of significant decisions that effect the student body. I would like to be a part of this organization to voice your opinions and to serve you to the best of my ability (or just write goofy weekly ASCIT minutes). Thank you for taking the time to read this,

Dutifully submitted,

Nasim Afsarmanesh

P.S. If you want to see my cute signature, vote for me.

The ASCIT Secretary takes and distributes minutes of the weekly BoD meetings, keeps track of all the records, cleans the office, posts fliers every week for elections, meetings, and signups, and submits minutes in a timely manner to *The California Tech*.

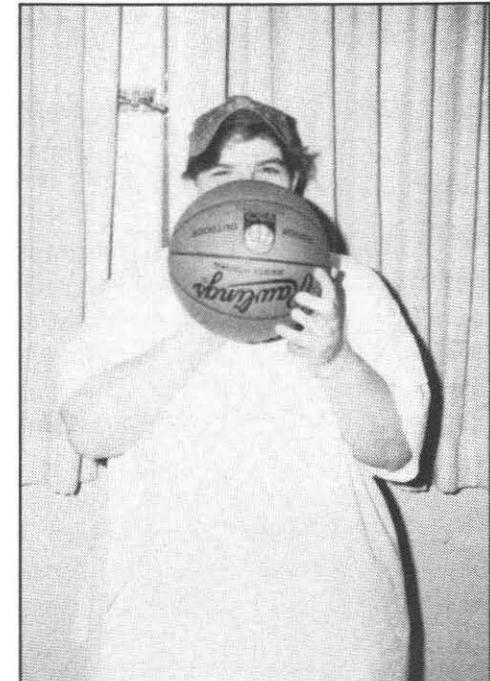
Kara Swedlow

Congratulations!!

You have won!!!!

Read on for details!!

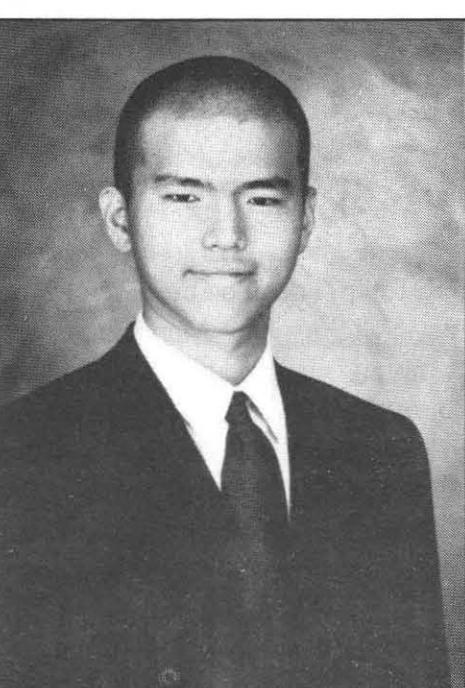
That's right! By simply reading this section of the Tech, you have won the right to vote for ASCIT Secretary:) Maybe at first glance this doesn't seem quite what you were expecting, but let me fill you in on just how great the prize you have just won is. ASCIT secretary is responsible for keeping the public informed of just what the heck is going on in those weekly meetings. Now, how exactly does this come about??? You guessed it, Minutes published in the *Tech*. Now, I am sure you are saying and just why should this make a difference in how or if you vote, well I will tell you. Most people don't want to read something that is going to bore their brains out, no matter how much they want to be informed of campus happenings. Solution to this problem??? Of course, vote for a candidate that will make an effort to while maintaining all necessary factual information, present it in a **NEW!!! EXCITING!!** manner. Well, I say that is what I



could do for you if voted in. Of course there are those other credentials that I have, experience on the ASCIT BoD, responsibility, and dependability, but possibly more importantly than any of these, I have a sense of **HUMOR:):**) However, in conclusion, I reassure you that my sense of humor, or anything else that I may possess along the personality lines will not get in the way of my getting the job done in a timely and orderly manner. So when you vote, vote wisely!! Many thanks for your attention,

Kara Swedlow.

ASCIT TREASURER



John Lin

(If I become the treasurer, I'll shave off my hair. Wait, I already shaved my hair off....)

Hi, I am running for the position of ASCIT Treasurer. If elected, I will make myself accessible to the undergraduate community as the Treasurer and represent the undergraduate community on issues that are important to us, as a member of the Board of Directors.

I would like to see a more involved ASCIT that is not only responsive to the needs of the undergrads, but also an ASCIT that actively engages in improving the undergraduate experience (that means *all* undergrads). College should be a

great learning experience, both inside and outside of the house system (oh, and the classroom thing as well). I would like to do my part in improving our collective life here.

ASCIT Elections are this
Tuesday, February 11.
Don't forget to vote.

✓ ASCIT Election 1997 ✓

ASCIT INTERHOUSE COMMITTEE CHAIRMAN

The IHC Chairman is the liaison between the IHC and the ASCIT BoD. He shall call and preside over meetings of the Interhouse Committee.

Lori Hsu

What do I think I need? A peace of mind maybe? After close to three years of involvement in the Dabney House as Social VP, VP, and finally President, I have not found peace within myself. I thought I was just going to relax and concentrate on school work now that my house duties are relinquished, that I was never going to start being involved in anything anymore. Yet, now my hands itch because there's nothing for them to do, my heart beats restlessly as it awaits some random notion from my brain to jump and seize the day. I feel an ever unsatisfiable desire to do more. A little Dabney fire burns in me. MORE MORE MORE. More what? Not sure exactly. I have done my job in Dabney, it is time for me to move on to bigger scenes, to go INTERHOUSE.

Ooooh. Sounds scary. Maybe I will be able to find answers outside of Dabney. I will need to cross the olive walk; to meet and interact with different people and see what other people have to say about their world around them; et cetera et cetera. Change is good. Maybe that is what I think I need. Change. Don't you think that there are too many constants in your life? I do. I think that is what I think Caltech needs too.

As our new ASCIT president pointed out, too much APATHY on this campus. Don't you agree? Let me say it again. APATHY. There it too much apathy here and it is sucking the life out of Caltech. Wake up, eat, drink, sleep, homework, class. Don't you want to be just spontaneous sometimes and jump up and



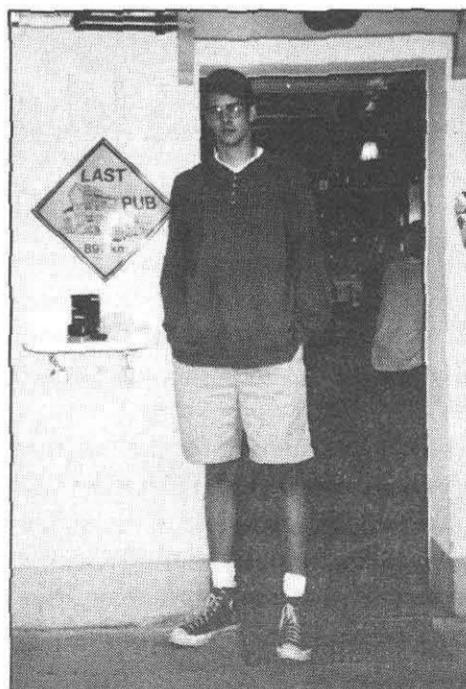
scream "I LOVE MY MOM!!".

People need to freeeeeeeeeeee themselves and beam!!!!!! I know we don't have time. Its not any body's fault, and it is certainly not Caltech's fault. We all have goals when we came here, some more defined than the others. That is why I am going to make this offer to you. You do your work and you concentrate on your 4.0's. Leave being involved and active part to me, because I am addicted to involvement. Let me jump twice as high for you, yell twice as loud for you. Let me whip your house president's butt for you. Let me be your IHC chair.

I know what I am doing has its rewards. I know that just by running for IHC chair I am ridding the constants in my life, and I know I like that, I think that is what I need more than anything in my college years. I know I don't have as much IHC experience as Jon, but I am definitely second in line in that category. Oh, I may have more fire in my belly. Let me be your IHC chair.

Ben Turk

After having several people from different houses suggest that I run for IHC Chair, I decided they were right. As ASCIT Athletic Manager for the past year, I chaired a committee of the house athletic managers, helped resolve disputes between various house ath teams, and have served as a go-between for ASCIT, the IHC and the athletic department on various problems concerning Interhouse sports and Disco. This experience would be very useful as IHC Chair, since the responsibilities would be very similar, only on a larger scale. I am organized enough to handle all the duties of the office in addition to my other activities and classes, and I am laid-



back enough to handle problems brought to the IHC in a fair and reasonable manner.

Thanks, and remember to vote.

Ben Turk

Jonathan Little

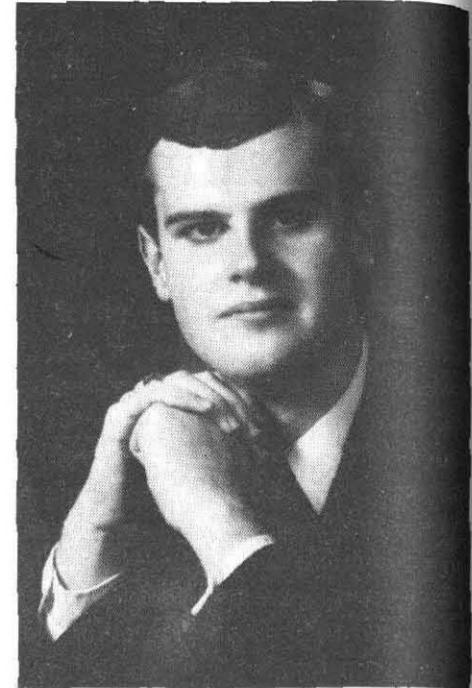
If the truth were to be told, the fastest way to improve this school would be to give everyone less work and mandate a ratio of 1:1.

Caltech, of course, could never do this because then we would risk having our reputation tarnished by being confused with Stanford and UCLA instead of "that place in Pomona". Alas, as students here we are forced to suffer in many ways, not all of which begin with EE (some take the form of "comics" in the Tech....).

However, one of the fringe benefits you get for your \$30,000 every year is an opportunity to be a part of the house system, and that (sometimes? occasionally? never?) makes life bearable or even (dare I say?) fun. (Oops, I'll bet Millikan is rolling over in his grave now moaning "More homework! More homework!".)

So anyway, my name is Jonathan Little, and I'm running for IHC chairman. (Sorry to disappoint those frosh who were up all night with math and chem and thought they were reading some weird version of Dilbert.). I've served as the IHC secretary for the past year, and so I know what needs to be done as well as what can be improved in the future, such as:

- Making an (Interhouse) effort to improve (Interhouse) coordination with (Inter)house social calendars so that (Interhouse) events don't overlap
- Rewriting the software for picks and rotation (this year we were forced to do everything by hand at the last minute)
- Changing the roompick procedure so that Avery will fill up. (Otherwise, on-campus rates may go up to cover the loss



that housing is taking on Avery.)

- Establishing a better relationship with Alumni
- Updating the *Little T* so that the rules, bylaws, etc. in it are actually valid
- Working with the new President of Caltech so that he or she understands the house system, its benefits, and its traditions.

In addition, I've also been a representative on the academics and research committee (ARC) which has done much of the planning for the student-faculty conference in April. In doing so, I have worked with many of the candidates running for ASCIT offices, and I am aware of the issues which ASCIT will have to deal with over the next few terms (e.g. *Big T*, review of the honor system, "The Van", etc.)

Thank you for your time, and please feel free to contact me at jlittle@cco.edu or at x1563 if you have any questions or concerns.

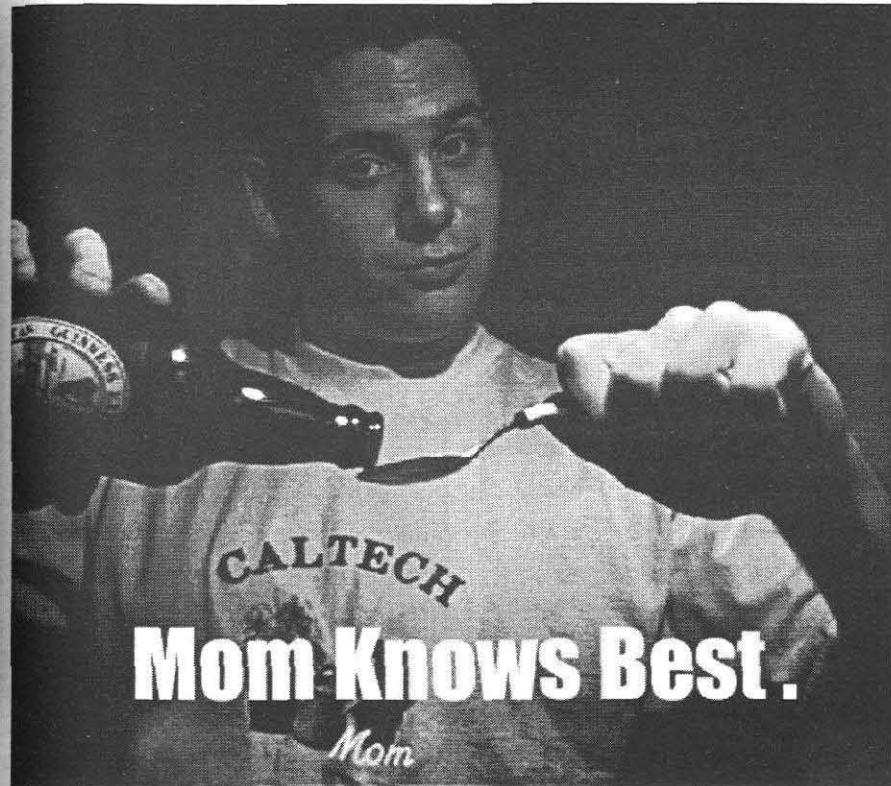
Sincerely,
Jonathan Little

VISA LOTTERY BEGINS IN FEBRUARY

The instructions for the 1998 U.S. State Department Diversity Visa Lottery have been announced. The dates for this year's lottery are February 3 through March 5, 1997. Nationals of the People's Republic of China, Taiwan, India, the Philippines, South Korea, Vietnam, Great Britain (except Northern Ireland), Poland, Colombia, Dominican Republic, El Salvador, Jamaica, Mexico, and Canada are not eligible for the program. To pick up a copy of the procedures on how to apply for this Lottery, please stop by the Office of International Programs (Lloyd House, Olive Walk) if you are an international student, or the Faculty and Postdoctoral Scholars Office (Parsons-Gates, 010) if you are an international postdoc, professor, researcher, or staff member.

✓ ASCIT Election 1997 ✓

ASCIT DIRECTOR FOR SOCIAL ACTIVITIES



Mom Knows Best.

FOR KICKIN' PARTIES AND A SWANK FORMAL
VOTE ALEX SHEIVE FOR SOCIAL DIRECTOR
(I'M COOL, I SWEAR IT.)

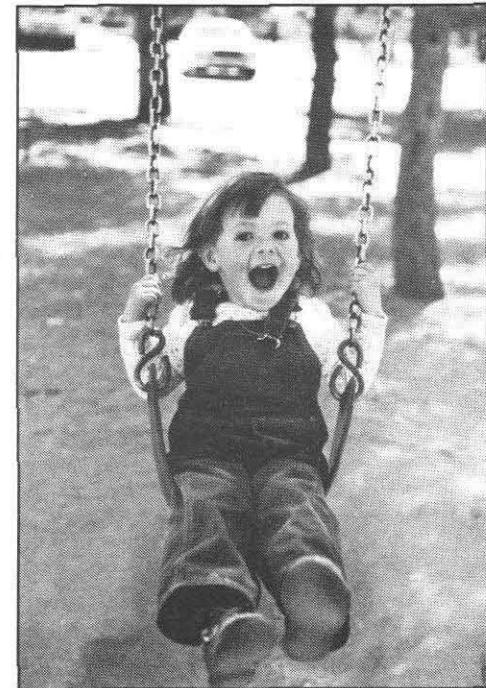
The Director for Social Activities plans all ASCIT social events (various parties and the Formal) and distributes the remaining social budget to distribute the remaining social budget to clubs and events.

Adrienne Bourque

LOTS OF FIELD TRIPS TO THE PLAYGROUND!!! That is my platform as a candidate for ASCIT Social Director.

Or maybe not.

I'll be brief. I think that the ASCIT social calendar needs more and better events, and I'm willing to work so that this goal can be accomplished. I also understand what it takes to organize and run social events, having been an active member of my house social team and the ASCIT social committee. (Yes, I know you're thinking, "ASCIT has a social committee?")

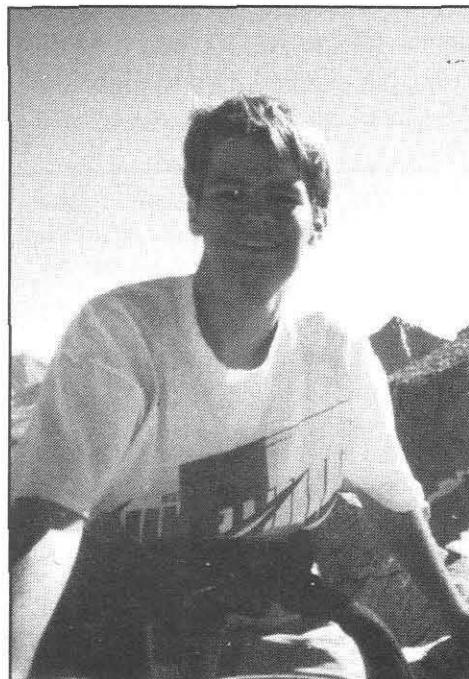


In summary, we need raspberry bushes. So we can pick raspberries. And vote for Adrienne Bourque for ASCIT Social Director.

ASCIT DIRECTOR FOR ACADEMIC AFFAIRS

The Director for Academic Affairs publishes the Course Listing for Undergraduate Education (CLUE), that fine booklet that lets you get the previous term off your chest. He also chairs the Academics and Research Committee (ARC).

Mike Westover



Hi, I'm Mike Westover, and I'm running for Director for Academic Affairs because I think I would be a good representative of the undergraduate community. The DAA is going to be a big job in the upcoming year, and I am well prepared for it.

First, some background information on myself. I'm a sophomore astronomy major, and for the past year I've been running the Ruddock ath team. I've also been a rep-at-large on the Academics and Research Committee, and a student alternate (attending all the meetings) on the Curriculum and Academic Policies Committees. I participated in the SURF program last summer, and I have been serving as the Caltech SEDS treasurer for the last year.

As I mentioned above, the DAA will have a lot to do in the next year. Curriculum changes have been happening at a rapid pace recently, and the new DAA will need to keep on top of both new changes and reviews of old ones. I feel that my experience on the committees listed above in the past year uniquely qualifies me for this part of the job.

The new DAA will also be in charge of running the ARC and this year's student-faculty conference, as well as producing the CLUE. As a member of the ARC for

the last year, I have seen the student-faculty conference develop and been exposed to the day-to-day operations of the ARC. I have the time and expertise needed to edit and produce the CLUE. I think I could do all these parts of the job well.

I've received several suggestions for things that the ARC should do in the next year. Reviews of the SURF program, transcripts, the ombuds system, frosh-on-grades, and core-curriculum changes have all been suggested. As the ARC Chair, I would try to implement these and any other suggestions I would receive. I think I would be a good choice for DAA in the upcoming elections, and I thank you for your support.

Mike Westover

ASCIT TECH EDITORS

Caltech has one of the few student newspapers in the country with elected editors. Nonetheless, Tech Editors have proven to be free-spirited and nonchalant toward student opinion and standards of professional journalism. This attitude has cost most of them their jobs. Tech editorship provides a wonderful chance to demonstrate your egotism in print. The job is generally not a boon to the GPA.

The Incumbents

Ryan Cox,
Autumn Looijen,
& Erik Streed

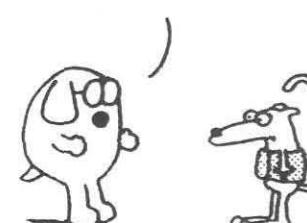
*With
(The Elem)
Streed*

*By John
"The mole"
Cox*

*Art
(The Dark)
Looijen*

RATBERT THE CONSULTANT

IT TAKES MORE THAN A BRILLIANT ANALYTICAL MIND TO BE A TECH EDITOR.



YOU ALSO NEED TO BE ARROGANT AND SOCIALLY DYSFUNCTIONAL.



✓ ASCIT Election 1997 ✓

ASCIT BOARD OF CONTROL SECRETARY

Leonard Sung

(I know it's long but it's pretty kewl)

The Honor Code, according to Dean Revel, is "Tech's most sacred tradition," but one's perception of honor varies from person to person. I don't have to continue praising the virtues of the Honor System—you should know them. On the other hand, if you weren't BoCed, then you probably don't know how the Board of Control "protects" the Honor System when a violation has occurred.

I was BoCed.

I was BoCed for taking and doing the crossword puzzle of a certain House before midnight. Actually, I'm still not sure what I was BoCed for. Maybe you can help me. Here's my story:

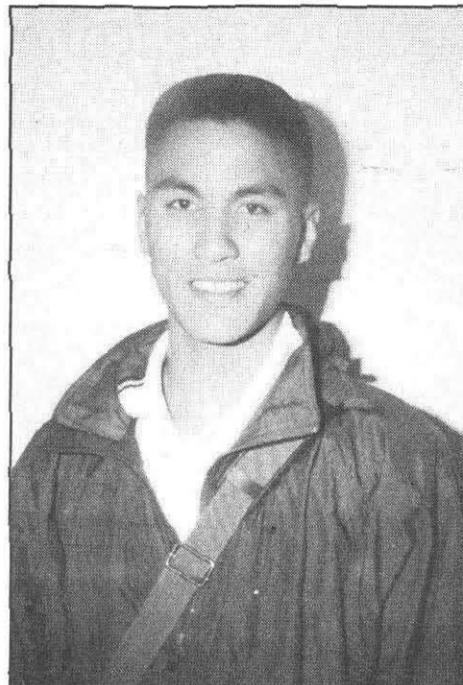
For an unspecified period of time, I made a habit of taking and completing the puzzle at my leisure. Sometime in March 1996, it was brought up by some people and then the President of the House and I made a compromise that alleviated the situation. That compromise or contract involved the ASCIT copier machine. During Spring Break and sometime afterwards, the machine was broken, so I continued my old habit. However, on the second day of school of the third term (the date may not be accurate), someone told me that I shouldn't take it. I told them the copier was broken because I checked it everytime before I took it. Nevertheless, I bought another copy of the entire paper for a quarter and replaced it. From that day on, I stopped my habit. Two weeks later, I was BoCed. I want you to know that I am not proud of what I had done. I was wrong, and on my own, I stopped that action. Nevertheless, I was called to meet with the secretary and chairman at a secret place.

For several weeks before that meeting, I was worried that I had been framed for something that I didn't do. I tried to recall all of my actions and what could have been misconstrued as an honor system violation. I had no idea that I would be BoCed for my habit of completing the puzzle. Then I was informed that I was being BoCed for breaking that compromise. I told them everything I knew at the time and confessed with all sincerity. The BoC told me nothing. I didn't know who BoCed me, what their nature of accusation was, or, just simply, why? However, I trusted them and I hoped that the truth would later be revealed.

Nevertheless, I cooperated until the hearing was scheduled to take place. I couldn't make the scheduled hearing because I had an important and long midterm report due the next day. Then the BoC informed me that I could get an extension...an extension? For this? For the crossword puzzle? It was my responsibility to get my work done on time, and I put the assignment off to the last minute because I planned to do it in the last minute. Besides, could we just reschedule the hearing?

Anyway, the BoC heard my case in my absence and convicted me. However, their conviction was based on my habit. In other words, their previous accusation was changed or expanded.

During this time, I was worried sick out of my mind. I didn't know what might happen to me. Could I really be expelled for this? Would I have to pay \$8.5 million in damages? What was going on? I didn't know that they could hold a hearing without me....etc.. etc.. Then I remembered some critical information that may have influenced the case. I remem-



bered informing the President that the copier was broken before the third term began. He didn't say anything, so I stupidly assumed that it was okay to continue that habit. However, the BoC investigated and after five more weeks, they decided not to reopen the case.

Then I had to meet with the Dean so he could tell me what a bloody idiot I was. In other words, he maintained that the BoC's facts were the absolute truths and I cannot repudiate them.

However, the most revealing part came when I talked with the BoC reps at the end of the summer. This was a required part of the Nullification process. They told me that my absence from the hearing had put me in a disadvantage. I learned that important information from my story was never revealed to the members of the BoC; like the FACT that the Copier WAS broken for that period in which I continued my habit.

Now, I have lost all (or if any) the respect I had for the BoC. I'm not saying that my conviction was wrong. I could see why some people would think that the conviction is fair. Thus, I accept what I was being convicted for (well, on second thought, not really). I don't understand why it took the BoC so long for them to realize that. As Johnnie Cochran once said, "The BoC is an outrage!"

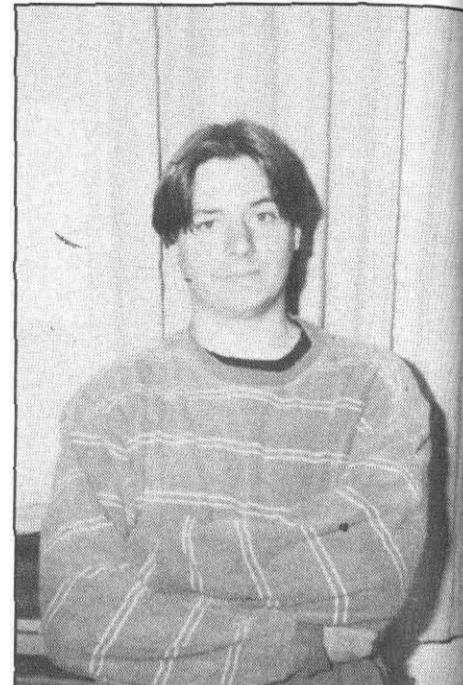
The BoC is a travesty of natural justice. The BoC was taking a clear and present unfair advantage over the accused. The BoC never specified what the defendant was being accused of. The BoC used self-incriminating statements against me. The BoC never allowed the accused to confront the validity or honor of the accuser(s) or accusations. I was never informed of my rights as the accused in this case except that I may bring a friend to the hearing. The BoC forced me to keep all of their proceedings secret during the investigation. Thus, I couldn't discuss this with anyone and tell if my rights were being trampled on.

Yet, the Chairman and Secretary failed to pass on information, that will assist my case, to the entire Board at the hearing. They refused to schedule an alternate date for the hearing that would put both of us at a reasonable playing field. They decided that the case should be heard by the Board when they had collected all of their evidence against me. When I brought up something that may have helped me, they refused to re-open the case. Am I justified in my accusations of the BoC? No. I am taking one incident and using it as the typical BoC case. I am judging the BoC on one case out of a possible hundred in the same manner that the BoC took twenty weeks to judge me on one action.

Nevertheless, my case was atypical for

The BoC Secretary and the BoC Chairman investigate alleged violations of the honor code. The BoC Secretary is also in charge of keeping the records of the BoC and taking minutes at meetings.

Noah Malmstadt



I'm running for the position of Board of Control Secretary because I believe that the honor system is one of the most important aspects of the Caltech undergraduate experience, and because I have the dedication necessary to devote myself to this very demanding job. I have served as a Representative-at-Large to the board of control for the past year, and in that time I have gained a new respect for the importance of the service that the board provides to the undergraduate community. Without the board, there would be no forum for consideration of possible honor system violations, or, worse, this important task would be left to the faculty and administration. We are fortunate to have a group of undergraduates overseeing the honor code, and I want to have the privilege of being selected to serve as a vital member of this group. My view of the honor system, and of the job that the board of control does, is not a naive one. I know there are problems with the current system. However, over the past year, the leadership of the board, together with the ASCIT board of directors, has worked hard to make the process by which honor system vio-

lations are investigated and board of control decisions made more amicable to the needs and desires of the undergraduate community. In fact, as a result of this effort, the ASCIT BOD recently decided to propose a change in the bylaws that deal with board procedure, a proposal that will soon be brought to a campus-wide vote. I want to be part of this ongoing process of reform as a leader of the Board of Control. Since I'm a graduating senior, I would not serve a full term as BoC secretary. However, I believe that my experience and dedication make me the most qualified candidate for the job, and I know that I am capable of fulfilling the duties of Board of Control secretary for the rest of the year.

the BoC. This non-academic case involves questions on the BoC's jurisdiction over these "House" conflicts. Maybe the Residence Life Office should have intervened. Moreover, it may be rare for a defendant to share his experiences with the BoC publicly without any unbearable shame.

Thus, I'd like to implement a system that will set the defendant and prosecutor at an equal footing. I'm hoping that I'll be able to establish a new system where the accused

rights' are protected. In addition, either the Secretary or Chairman may act as a "defense" advocate for the accused while the other performs the functions of a prosecutor. These changes, if any, will be made gradually in accordance to the procedures of the current BoC. Thus, I'd like to make the procedure efficient, quick, and accurate.

The main reason I am running is that I want to prevent you from facing the same atrocities on your rights if you are BoCed in the future.

The BoC responds to Sung's statement

By resolution of the Board of Control, the Chair releases the following statement:

Leonard Sung is entitled, as are all members of the Caltech community, to his opinion of the Board of Control. The Board does not feel that it would be appropriate to be drawn into a petty dispute with him. However, in the interests of preventing misunderstandings about the procedures of the Board, it is necessary to respond to his statement because it contains factually inaccurate and misleading information.

In any investigation leading to a hearing, the defendant is informed several days in advance of the time of hearing, giving him ample time to reschedule, and is also informed both in verbal and written form of his rights:

- to bring a friend to the hearing
- to dismiss any member of the board from his case
- to speak about the investigation to a BoC rep

In the unusual case that a defendant refuses to cooperate with the Board of Control or the Dean and voluntarily waives his right to appear at a hearing, the Board is forced to render as fair a verdict as possible without his testimony. In the case in question, all testimony and evidence was thoroughly considered, and the case was concluded in a timely manner. If you have any concerns about the Board or its procedures, please talk to any member of the Board of Control, please talk to any member of the Board of Control, or call the Chair at x6200.

✓ ASCIT Election 1997 ✓

ASCIT ATHLETIC MANAGER

Jim Krehl

With my experience as Dabney Athletic Manager and Hardcore Full-On Massive Dabney Athletic Participant I've learned a few things about interhouse athletics. While some of us, more to the point, some of you have some superfly skills a number of us rely upon the "it just fell into my hand" or the "I closed my eyes before I kicked it" strategies. This indicates that athletics at Caltech are ready to escalate to a new level of intensity. Pretentiousness. I'm not talking about pretension qua pretension, I'm talking about unadulterated, "adrenaline coming out of my ears" pretension. Just look at my picture, I'm standing in front of and behind two phallic symbols playing a broken ukelele in 6" of water wearing a tie, jacket, and hip waders, this is the level of pretentiousness that I'm trying to convey. What I envision for interhouse athletics includes poetry readings on the sidelines, new jersey's with M.C. Escher and Magritte silkscreens, and referees with turtlenecks and german accents, maybe a penalty for bourgeois behavior.

Secondly, as stated earlier there exists various different levels of athletic prowess among Caltech undergraduates. From what I've seen as a referee, a competitor, and an observer there is one thing that remains con-



stant. Everyone who participates does so because they enjoy it. This is what I feel is the purpose of interhouse athletics. However you find enjoyment you find it somehow, otherwise you wouldn't show up. I happen to come from a house who finds more pleasure in playing than winning, however I'm sure that I can ask someone what it's like to win. Regardless of individual bias, it is my intent to increase your ability to participate in interhouse athletics in whatever way you desire. Whether this means more competition, better officiating, or more aroma therapy I'm willing to make it happen.

Jim Krehl - The rational choice.

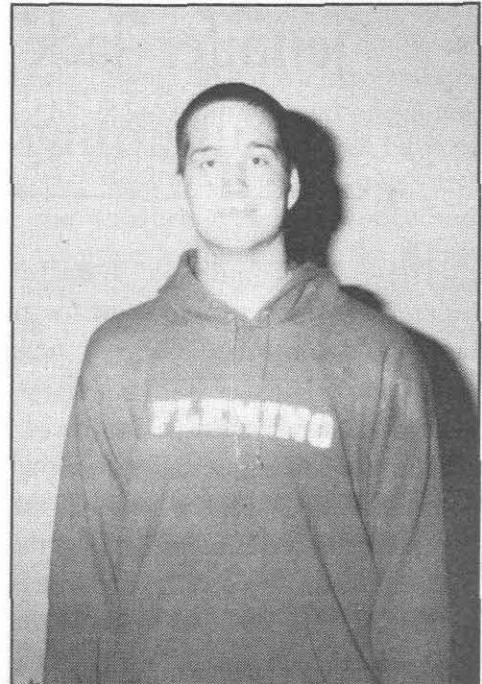
The Athletic Manager helps provide varsity letters and jackets for athletes. He also acts as the go-between for ASCIT and the Athletic Department. Occasionally, he will meet with all of the House Athletic Directors to go over current interhouse sports rules and requirements.

Chris Bisbee

So why do I want to be ASCIT Ath Man? I really have to explain with a story:

While I was a Fleming Athletic Manager, we received a Disco challenge which was absolutely disgusting. Crude and obnoxious, it went beyond even the pretty liberal standards for a Fleming-page challenge. We decided that the only good way to respond was to be just as filthy as them. We answered the pageboy bull by dumping about ten pounds of steer manure on top of our choice of sport in front of the page Ath Man's door.

You may, at this point, be wondering what this has to do with the ASCIT Ath Man position. Well, when Page cleaned up the mess, for some odd reason they didn't search through the pile, and thus claimed that we never responded to their challenge. When Ben Turk, current Ath Man, informed us of the situation, we accompanied him and a few pageboys to the trash can where they had deposited the manure. After explaining to him what had happened, he personally dug through the trash can until he recovered the document in question.



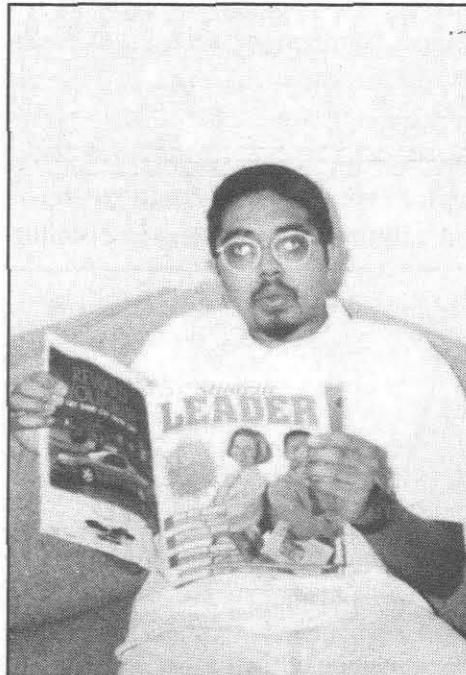
As ASCIT Ath Man, I will give the job the same dedication that Ben has for the past year. I'll even be fair and impartial when dealing with page. In addition to that, I am knowledgeable about all of the Interhouse sports, and I'm sure that I can handle distributing varsity letter jackets.

Vote Chris Bisbee for ASCIT Ath Man. P.S. Hey Page: Sorry about the whole ice machine incident. If we had known what that frozen stuff you put in front of Monroe's door was, we never would have chopped it up and thrown it in there. Whoops!

The Upperclass Director is responsible for the ASCIT van and copier, one of which we can't use and the other of which we don't own. He is also supposed to do various other tasks as directed by the BoD.

Kiran Shekar

The Upperclass Director at Large is responsible for the ASCIT van and the copier. In addition to these responsibilities, the UDAL is a member of the BOD. I feel that I would make a good member of the BOD as I have a good knowledge of the workings of Caltech having held many positions in my seven terms at Caltech, including ARC Secretary, Curriculum Committee member, editor of the CLUE (I know the catalog like the back of my hand...it's scary (the back of my hand, that is, what did you think I meant?)), and Fleming Social Team member. Well, that's all the campaigning I have, so I'd like to dedicate the rest



of my statement to responding to Cherish Brown's article...nevermind.

Kiran Shekar

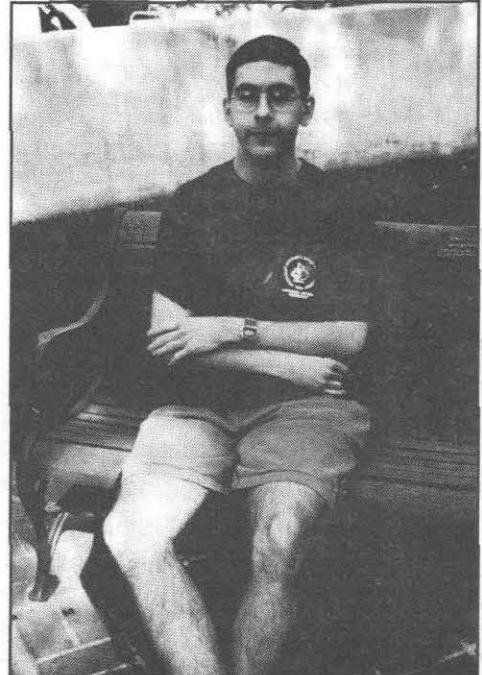
Mic Westcoat

Hmm... So I want to be the ASCIT Upperclass Director @ Large (UDAL). Maybe I'm crazy.

Why do I want to be UDAL? I've always had trouble with that question; I've never been terribly good at divining my own motives and distilling them from background noise in my head. Anyway, I seem to have extra energy around that refuses to dump itself into academics, else I become a very bitter s'more for doing homework all day. So I guess you could say this is an escape for me. Whatever the reason, I really do want the job.

I won't try to wow you with the activities I'm involved in, because I'm not in anything. Okay, I'll confess. I'm the ASCIT Election Chair and that's all. It's a small diversion from the rigors of Caltech, and it's been an opportunity to serve ASCIT (read: ASCIT Slave/grunt worker). It's a boring job, but somehow I managed to enjoy it. So it seems I like working for ASCIT. (Someday I'll regret saying that.) But I don't want to be Election Chair forever. After all, I want to offer more to ASCIT than carrying around ballot boxes.

How about what I'd do as UDAL? Well, there's not too much to do for a



copier that we don't even own. Also, UDAL's definition also implies "grunt work." I know all about "grunt work" (see above reference to "ASCIT Slave"). Finally, it certainly goes without saying that I'll do my utmost to get Our Van back in action. It's perhaps the best reason to be UDAL. No guarantees here. It's been grounded since May, so it can't be that easy. It also can't be impossible either. So now I want to give it my best shot.

Rather than try to do everything in my free time, I'd prefer to do only a few things and do them very well. ASCIT Upperclass Director at Large is one of them.

Mic Westcoat

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✓ ASCIT Election 1997 ✓

ASCIT FRESHMAN DIRECTOR-AT-LARGE

Jennifer "Jack" Cummings

Hi! My name is Jennifer Cummings—most people know me as Jack—and I want to be your new ASCIT Frosh Director. What can I say? I meet the qualifications—I'm a frosh.

I see the job as three things: Being on the ASCIT BoD, representing the freshman class, and putting together the Undergraduate Research Opportunities Handbook. I would like to be on the BoD so I can help to make sure that the interests of the freshman class—and the student body—are served by the school.

The freshman class needs a visible representative. I am visible and energetic and will make sure the class is heard. Finally, I would really like the opportunity to work on the Handbook. It is an important part of Caltech, as anyone looking for professors to do summer research with knows, and I am



willing to work hard and put a lot of time and effort into making the next handbook an accurate, valuable tool. I'd really like to be the next ASCIT Frosh Director. So when you cast your ballot next week, consider backing Jack!

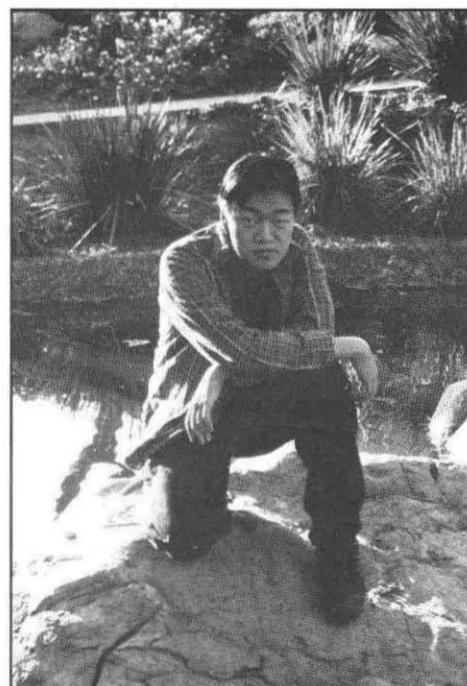
Thank you,
Jennifer "Jack" Cummings

Abraham Kuo

Why do I want to be Frosh Director? This sounds like a question I've been asking myself for the past day or so, ever since four other people decided that they'd like the office too. Really, the only remotely interesting thing for the Frosh Director to do [besides being bossed around by the Board of Directors into being the Frosh Grunt] is to publish UROH, the undergrad research opportunities booklet. Of course, there is also that budget meeting to plan third term, but I can't claim to find planning a budget meeting to be "remotely interesting" without being sued for false advertising.

Well, I suppose how I got stuck in the situation of having to write this statement and actually wondering if I'll win was that I figured I had never lost a single election. Granted, nobody ever bothered to run against me [because nobody was dumb enough to take the office of senator, I was elected junior year on the merits of being the last one in the room, and thus the most defenseless], hell, even I didn't run for two years in between [although I somehow still managed to be elected].

In any event, I should probably be making a case about why I want to be the Frosh Director next year. For starters, I'd actually be motivated enough to spend a significant amount of time



and effort in publishing the UROH, which is, after all, the main responsibility of the Frosh Director. Also, I've had plenty of experience publishing science/research type articles, having been editor for all [hint: two] Stuyvesant High School's main science publications.

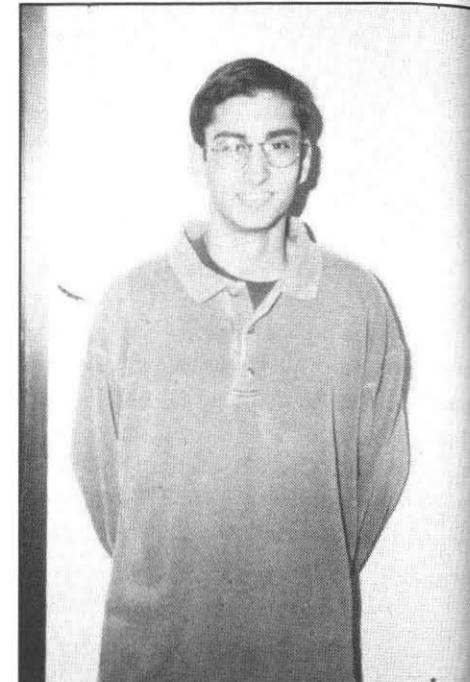
About that budget meeting that Frosh Director's supposed to be planning next term... well, there's really nothing I can honestly say about that which would be in my own best interest while running for this office, so I just won't.

Well, I suppose I should thank you if you've managed to get through all of my really sorry attempts at humor, and I guess I should ask you to vote for me as Frosh Director.

Thank you,
Abraham Kuo

The Freshman Director's two responsibilities are publishing the Undergraduate Research Opportunities Handbook and planning the third term budget meeting. He's also supposed to do all those tasks the BoD doesn't feel like making the Upperclass Director do.

Baldeep Sadhah

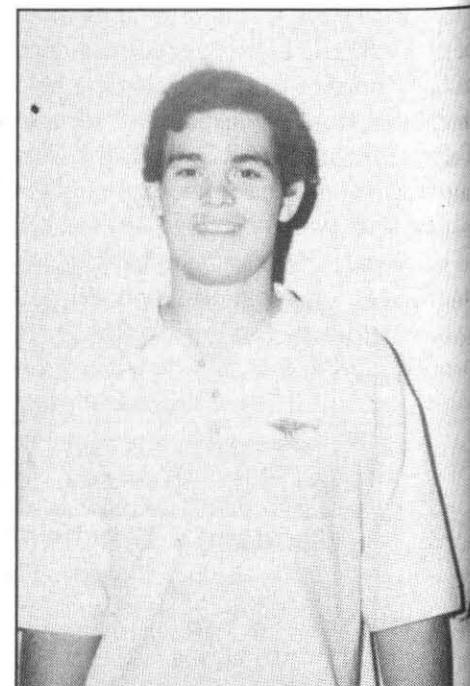


So! I suppose this is where I'm supposed to tell you all about how I was born in the roughest neighborhood and never knew my father, how I was shot eight times in the same leg in Vietnam and how I stand for moral progress, a cleaner environment and less crime. I guess I would, except that I'm running for a position that scarcely wields such wide ranging powers. Besides—I was born in Canada, I lived with my parents for the vast majority of my life and I was only shot seven times in my left leg (no, not really). So then, why on earth am I running for a position in ASCIT? I guess telling you that I'm dedicated to change, peace and the American way wouldn't get me very far, especially since I just finished telling you that Freshman Director at Large doesn't get any dictatorial powers (darn!). Actually, I'm running in the hopes of getting my first taste of this thing called student government. If it turns out that serving on ASCIT doesn't do revolting things to my digestion and I actually enjoy having the ability to contort my title to read "Director of Large Freshmen," I'd love to serve on ASCIT again in the future. Right now, it seems that Freshman Director is the best way for me to learn the ropes of student government. Now the hard part: why you should vote for me. I could go on and on, talking about serving on commit-

tees in high school, coaching an academic decathlon team, procuring grant money for technology in libraries, being president of several clubs, etc., but I suspect any reference to leadership qualities would quickly become boring and annoying. Instead I suggest you vote for me out of pity—after all, that is my picture there. If you don't think pity's a good enough reason, vote for me because I threaten you with bodily harm: if you don't vote for me I'll seek you out in the dead of the afternoon when everyone's asleep and severely beat you with a large blunt object. In all seriousness, though, vote for me because I have the drive and the motivation to serve the student body. If ever you wonder just what those boring and annoying examples were, just send me mail and I'll send you the whole list! Have a nice day!

- b a l d e e p -

Matthew Sullivan



In thinking about what makes me qualified for the position of Freshman Director-at-Large, I could think of only two, experience and enthusiasm. While I may not have experience with ASCIT, I have had outside experience helping to lead other organizations. In high school, for instance, I was a state officer for the California Chapter of the Future Business Leaders of America.

I know that this has little bearing on my life at Tech today, but I have dedicated a great deal of my time to helping an organization, and I am able to do it again.

As a candidate, what I can offer beyond experience is enthusiasm. I am

excited about our school and what we will make of it in the upcoming year. If elected, I would channel this enthusiasm for the school into my job as Freshman Director-at-Large.



Dean's Corner

Sticky wicket not wicked

by Jean-Paul Revel

tives are out of line, period. We have a policy in place to deal with such matters, and we will respond if we become aware of inappropriate behavior. Women, like men, are members of our community and deserve the same respect. If there is anyone who does not understand that, it is imperative for them to learn, now. The hope is that students will all take along these attitudes when they leave from here and enter the world outside Caltech..

Having said that and contemplated some of the consequences of sexist behavior on Campus does not mean that I am comfortable with the generalizations made in Cherish's article. Boyish misbehavior by some members of the community does not mean that there are only few people who can be qualified as gentlemen. I

also don't think that my saying that "boys" is a stage on the road to gentlemendom, is a way to excuse bad behavior by males. It is describing a step in growing up. True that by and large women tend to mature both socially and emotionally earlier than men. That there is a difference up to the age of 25 or 30 is even recognized by Insurance Companies. My wife argues that such a difference persists as long as my age (more than twice 30 !) probably longer. But it is also clear that whatever their age or sex, if people do not themselves recognize their misconduct, it has to be brought to their attention.

Why insist on misconduct by men towards women, rather than the other way around also? It is because women often encounter more obstacles than men. That is in part a result of biology and unfortunately culture (or we might say lack of it). It is important to recognize that there are ways around this, like hard work and developing a belief in one's abilities. You are all the bright-

est of the bright, and hard honest work, wholehearted application and indefatigable effort are the way to your own success. Those will surmount the personal obstacles to success. And the best vengeance to any of the world's inequities is to succeed in spite of the obstacles. If the obstacles are external, caused by the insensitivity of one group towards another or any of many other reasons, for those instances we also have mechanisms: the RAs, the Deans, the DRL, the MOSH, the Women's Center, the Counseling Center, the Y and other avenues. You are all capable of graduating from here and to do well for yourself for the rest of your lives. Men and women both. Admissions makes no mistakes.

Of course that's easy to say, but much harder to believe in, when everything seems to go poorly. At such times it is important to remember the motto "per aspera ad astra", difficulties will not block our way to the stars, and to seek help and persevere. To come back to the state of women at Caltech I am sure it must a pain, a real pain, to have to defend one's personal space as so many women complain about having to do. If the boys are not gentlemanly enough to recognize this on their own, and insist on forcing them-

selves on women's attention, then by all means they need to be told, without equivocation, to back off. If that fails talk to one of the Deans or some of the others listed above. Cherish's move was a courageous way to attack what she found wrong. Speak up all of you when you have problems. Speak up too when something goes right... Most college students 18-22 year old, be they men or women, are only discovering their personae and are learning about the difference between ladies and laddies. Saying that does not mean that inappropriate language, manners, attitudes, which are against the overall aim of "equal treatment" will just be winked away with our conniving approval.

Everywhere, cherish the thought, there are many women and men of good will who work toward insuring an environment conducive to thought and learning. That's what we are here for, students and Profs. and staff to support this. Lets all do our part and not take advantage of each other. See, it all comes back to the Honor Code... QED

A bientôt.

J.P. Revel

SURF: Dinner starts season

CONTINUED FROM PAGE 1

two decades, although their have been informal summer researches by undergraduates since the early 1920's. It was instituted formally when Harold Brown was president of Caltech and Thomas A. Tombrello started looking for funding for some student interns.

The SURF program is now a huge program which has an annual endowment of three million dollars which was used to fund two-hundred forty-eight students last year and will fund at least two-hundred sixteen students this year. Most of the resources for SURFs come from faculty (seventy-eight) and the Jet Propulsion Laboratory (forty-eight).

SURF is an inspiring program which allows undergraduates to participate in research much earlier than they would be able to at other institutions. In fact, one-quarter of SURFs are eventually published in scientific journals. They are an excellent way to get involved in scientific research. Remember to turn in your applications by March 3.

book review

book review

book worm.

by Daisy James

- ***** A Wonderful Work of Art
- ***** Slightly imperfect
- **** Pretty darn good
- *** Decent
- ** Bad
- * Birdcage liner

If you have a book that you would like to see reviewed in this column, please drop it by my room (108 Ru) and I'll try to get it in the next week.

The One Hundred and One Dalmatians

By Dodie Smith

This is actually the book on which the movies are based, not the other way around. It is, in my opinion, much better than the movie. There is a much more detailed plot with most of the plotholes covered or at least more carefully dealt with. For example, the trip that

Pongo and Missus (the parent dogs) take to rescue the puppies takes them a week

rather than a few hours. The characters have a lot more depth and there is very little attempt at the sensational. Still, it's a children's story and nothing more. There is nothing to be read into it and no higher level that you can find. It's a light little adventure story and there's nothing wrong with that as long as you aren't expecting more.

The Life of Wilmur

By E.J. Mossey

A surprisingly deep and disturbing book about a young man living in the country and the people that he meets throughout his life. This book forces us to look deeply at the banality of our

own lives and the way we treat strangers. It opens with the death of Wilmur's brother at the hands of a wandering tradesman, an event that colors the boy's view of people forever.

The author employs an innovative use of capital and lower case letters to suggest power and servility. Actually, this book doesn't exist. I just needed another book for this review because I didn't have enough time this weekend to read one. Besides, I don't think that anyone reads this far in this column except the copy editors (hi Jacques, hi Wren.) Come see the Tacit play, it opens on the twentieth. I think this is long enough now.

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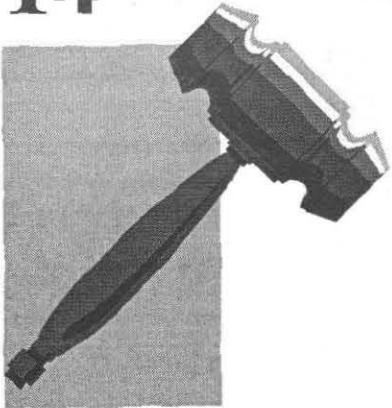
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Minutes from the Board of Control Business Meeting

Jan. 23, 1997

Publication of Statistics:
At the last meeting in December, a Bylaw addition to require the BoC to publish reports containing attendance statistics for BoC

Reps and case statistics was discussed. A more concrete suggestion in the form of adding this clause to the ASCIT Bylaws was discussed:

Article VII: Section 3 (v)
The Board shall release a report to be published in The California Tech twice a year, once in the ninth week of

third term and once in second term by the outgoing Board. This report should contain attendance statistics of the voting members of the Board and the following information: the number of cases investigated by the Board, the number of cases dismissed by the chair and secretary, the number of

cases referred to other offices, the number of cases dismissed by the full board, the number of convictions, and the number of those convictions upheld by the Dean of Students.

Discussion centered around what else, if anything, should be included in these reports. Adding the publication of the amount of time spent in preliminary investigations and in hearings and the average time between a case report and its closure (measuring the BoC's response time and efficiency). Aside from the fact that any statistic publishing the amount of time spent investigating a case before a hearing will be very inaccurate, there was a consensus that also publishing these data would be very useful. This would amend the proposed bylaw change to the following:

Article VII: Section 3 (v)
The Board shall release a report to be published in The California Tech twice a year, once in the ninth week of third term and once in second term by the outgoing Board. This report shall contain attendance statistics of the voting members of the Board and the following information: the number of cases investigated by the Board, the number of cases dismissed by the chair and secretary, the number of cases referred to other offices, the number of cases dismissed by the full board, the number of convictions, the number of those convictions upheld by the Dean of Students, the amount of time spent in preliminary investigation and in hearing, and the average time period between the reporting of a case and its closure.

There was also some concern about the publication of the protection decisions of the BoC (i.e. how many students were asked to leave Caltech, etc.). This was discussed at length at the last meeting, with the conclusion that there was nothing to be gained by publishing these statistics that merited risking the possible loss of confidentiality.

The Philosophy of Nullification: The BoC's current stance on the philosophy of the Nullification decision is that we are only to remove any advantage clearly gained by a student. For example, if a student is convicted of using an illegal resource on Problems 1, 2, and 6 on a six question exam, the Board's recommendation to nullify any advantage gained would most likely be to remove

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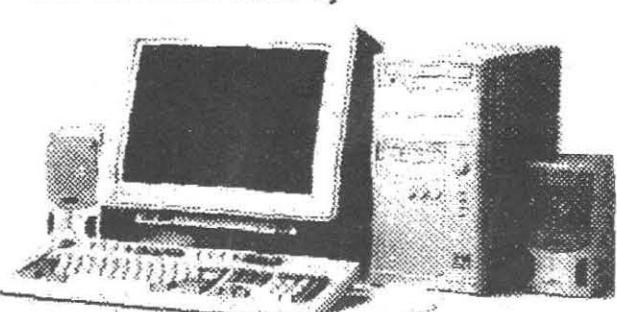
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credit on problems 1, 2, and 6, while leaving the scores for Problems 3, 4, and 5 unaltered. One possible suggestion is to revise this course of action to considering removing credit for the entire exam, taking into account time advantage or any other advantage gained by the student. There has also been some discussion about considering a revision in our philosophy behind nullification to a more punitive one.

Discussion of a possible change to this policy led to the following suggestions:

1. If a student cheats on an exam, the entire exam should be nullified (i.e. All of the credit on the exam should be removed.) This may address the concerns that some of the faculty have raised about our current policy. Opposition to this is that it is unfair to a student to remove credit for work that is their own. There was a concern that this policy would result in over-nullification, which could easily be interpreted as punishment.

2. A professor/instructor in a course has the option to determine before an exam is distributed what the proper nullification for cheating on the exam will be. For example, a professor could stipulate that an exam is to be taken as one question with no partial credit. In this case nullification must consist of removing all credit from the exam. This suggestion was extremely unpopular because of the possible inconsistencies in nullification of similar actions and because of the amount of foresight and effort demanded of the professor of a class. Another prominent argument against this suggestion was that it fostered an attitude of expecting students to cheat which seemed violate the spirit of the honor system.

3. A third suggestion is to consider removing points beyond the typical nullification decision during the Board's consideration of how to protect the community against further honor system violations. This would take into account the intent of the defendant. The BoC would remove credit for an entire exam only when they felt that this would help a student realize the seriousness of their actions and would possibly prevent further violations in the future. This would also provide an option for a protection decision "between" probation and a leave of absence, which is not something that has been available to the Board before. Opposition to

this point was that removing credit for an exam is a nullification issue, and that making this decision at the protection level could easily be interpreted as punishment.

There was no clear resolution on this point. Among the people that felt that a change was necessary, there was not a consensus about how to change the current policy. Discussion was tabled to be continued at a later time.

Unanimous decisions: Currently, any decision made by the BoC requires a vote of 3/4 of the voting members of the board present. (The Chair and Secretary do not vote.) There has been some discussion of requiring the BoC to reach a unanimous consensus on certain decisions or on all decisions.

Requiring any of the BoC's decisions to be unanimous was opposed by almost all of the people present at the meeting. A main argument presented was that this would give one BoC Rep veto power over any decision requiring unanimity. Requiring a unanimous decision might also force people to compromise their principles for the sake of expediency, rather than objecting to the decision and having the right to enter a minority opinion into the record and have their opinion presented to the Dean.

Recording Preliminary Investigations and Questioning during full Board hearings:

This would involve recording all interviews of defendants and witnesses during an investigation and all of the Board's interviews during a full board hearing with defendant's permission. Recordings could be kept with the Board's minutes and would be consulted in cases of dispute. Recordings of dismissed cases would be destroyed by the outgoing secretary.

This idea was strongly supported with the stipulation that we check on any possible legal issues involved with recorded questioning.

Our next meeting should be coming up sometime after ASCIT elections. Watch the Tech for information. Please let any member of the Board of Control know if you have any questions or concerns that you would like to see discussed. You can reach me at x6200 or at mariafs@cco.caltech.edu.

Thank You,
Maria Satterwhite,
Board of Control Chair.



Star Wars: Special Edition

So, in case you've been living under a rock (or perhaps in the lab), the newly revamped *Star Wars* was released last Friday, and I confess that I saw it twice already. You can probably guess my age by the fact that *Star Wars* was the first movie I remember seeing in a theatre (actually a drive-in), and that it pretty much defined my early childhood. The great thing is that it holds up astonishingly well. *Star Wars* overcomes its sporadically weak dialogue and acting because its basic story and archetypical characters are so rich and affect us at the deepest, most elementary level. Moreover, the world the characters live in is both fantastically original yet realistic, lived-in, and familiar. That's all not to mention the spectacular action scenes, which, unfortunately, are all many of its blockbuster imitators seem to have noticed about the movie. The extra and altered footage for the Special Edition isn't earth-shattering, but there are some nice bits. The final battle sequence looks better than ever, and there are numerous enhancements to Tatooine ranging from a new shot of the Sandcrawler and a new look for Mos Eisley to the famous Jabba the Hutt scene. But the real reason to see the rerelease is because seeing videotapes just can't compare to the experience of watching a film projected in a theatre as they were meant to be seen. I especially recommend catching one of the sequels at a big theatre like Mann's Chinese in Hollywood opening night for a

ADAM VILLANI: MEDIA GUY

BY ADAM VILLANI

truly exhilarating moviegoing experience.

"Politically Incorrect with Bill Maher"

While waiting in line for *Star Wars*, I picked up a ticket to see the taping of "Politically Incorrect" on Wednesday. If you haven't seen the show, each weeknight Maher gathers together four people from entertainment, politics, journalism, or whatever and engages them in a discussion of current events, encouraging them to say whatever they feel rather than toning down their talk for public consumption. The format works pretty well; where else could you see G. Gordon Liddy and Coolio arguing about Ebonics? My only real complaint is that it could be better if it were longer; as it is they frequently have to move on before any closure is reached. If you've never been to a taping of a TV show, it's really a fascinating experience in which much of the artifice of television is exposed. Tickets to shows are always free and pretty easy to get; just call up the studios or hang around in front of the Chinese theatre and look for people with clipboards. Be warned, though, that while the tapings of shows like "The Tonight Show" or "Politically Incorrect" happen in "real time," an half-hour sitcom episode can take several tedious hours to tape.

Everyone Says I Love You

The latest Woody Allen movie is the anti-*Evita*, a musical in which people with ordinary

voices sing to express their happiness or longings rather than belting out tunes designed to knock you out of your seat. Allen may always use the same kinds of characters and situations (giving his own character a different name in each movie is purely a formality), but his movies are consistently sharp and entertaining, and he always finds some new twists. *Everyone Says I Love You* is an ensemble piece centered around various members of a large family as they fall in, out, and back into love. No other movie currently in release conveys simple joy so well; every performance is perfect and there is no fat to trim in the film.

Scream

I'm no fan of horror movies, but I'd heard good things about this flick, so I saw it and wasn't disappointed at all. Director Wes Craven (*A Nightmare on Elm Street*) has constructed a scary, exciting, funny movie that's all the more interesting because it's so self-aware. The teen slasher victims in this movie have all seen horror movies, and so they—and we—know what to expect. But just enough of our expectations are fulfilled that Craven really has a fun time keeping us guessing as to which of the clichés won't come true. This movie has shown remarkable staying power, coming in third place at the box office in its seventh week in theatres. It's easy to see why good word-of-mouth has made this one of the most successful horror movies of all time.



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TTO: Taking toll on Technology Transfer Office

CONTINUED FROM PAGE 6

trying to do. If the institute has something of value, industry is going to find out one way or another...The industry spends a significant amount of time and resources trying to find interesting opportunities."

The role of the Tech Transfer Office in this process is to be a facilitator. "Our job here is to understand what a business needs and why," notes Larry. "Also, what is fair for the faculty? We are a facility to put all of this together to be embodied in a license agreement."

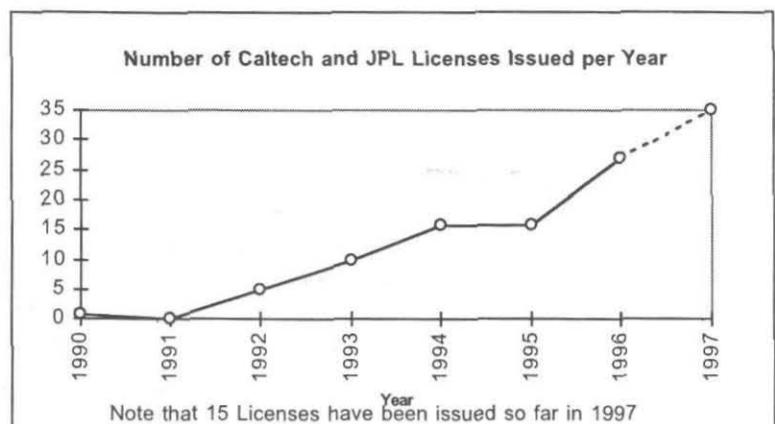
Perhaps the most important accomplishment that the TTO has performed is to make the licensing process user-friendly. Larry notes that, "Pre-1992, we[Caltech] had almost no licenses, why? There was a disinterest on the part of the administration. If you wanted to get a license done, it might take 2 years. By the end of that time both sides are exhausted. No one wants to spend that much time to do a deal. There are other deals to be done. Now, we have the ability to complete a deal fairly quickly." The average time to get a license from Caltech is currently about 3 months rather than 2 years. Larry notes that Caltech Chief Patent Counsel Mike Keller was hired in 1992, "He made a big difference and deserves a lot of credit

for beginning to turn things around."

To show why turn around time is so important, Larry points out some other universities: "The UC [University of California] system is so bureaucratic that it takes

clude both Caltech campus and JPL.

Patent income rose from \$2.7 to \$4 million from 1995 to 1996. The costs for patents were about \$1 million in fiscal 1996 suggesting about \$3 million in net profit.



an inordinate amount of time to come to an agreement... The UC system does billions of dollars of research every year. They did only 45 million in royalties in 1993 and they broke even! They should be doing much, much better. You wonder, how do they get anything out?"

Having been around for almost 2 years now, how is the TTO office doing? It seems reasonable that if the environment is really changing at Caltech, one should see an increase in invention disclosures, patent applications, licensing, etc. The following numbers, unless otherwise noted, in-

However, when companies license a patent, they reimburse Caltech for patent costs. Also, these numbers don't include costs for running the TTO. So net profit on patents depends on how you do the accounting.

The number of patent applications jumped dramatically from 60 to 161 from 1995 to 1996. Unfortunately, these numbers are skewed due to the creation of the "provisional patent" in 1995. A provisional patent is an extremely inexpensive way to protect intellectual property for 1 year, at which point the usual patent can be obtained.

A better number to examine is the number of invention disclosures filed. An invention disclosure is a summary of a discovery informing Caltech of the details behind the discovery. If indeed the TTO office is changing the way professors feel about licensing technology, the number of invention disclosures and the number of licensing agreements should be going up. Over the last three years, the campus invention disclosures have risen from 66 to 68 to 70. Larry expects more than 70 this year, perhaps as many as 80. He told the Tech his rule of thumb: "I would like to receive one invention disclosure for every million dollars of research. We are getting close to that number, which indicates we are starting to capture the main activities that relate to inventions that are going on at campus."

The licensing data best shows the TTO office is making progress. The graph shows a tremendous increase in the number of licenses issued at Caltech. The numbers were practically zero before the hiring of Mike Keller in 1992. Since then, they have been growing extraordinarily quickly. For comparison MIT, which is about 7 times as large as Caltech, issues between 70 and 100 licenses every year.

It is interesting to note that

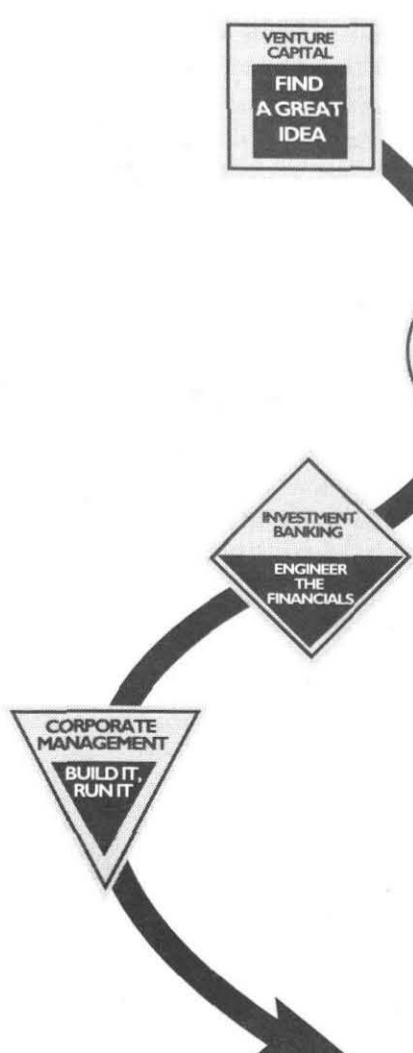
while campus has an operating budget of around \$350 million per year, and JPL has an operating budget of about \$1 billion per year, the Caltech campus has been issuing more licenses. Last year, for example, 12 licenses came from work at JPL and 15 from campus.

Larry points out that the major difference between 1995 and 1996 licenses is the start-up companies. The TTO office licensed 13 start-ups last year. Larry was aiming for eight to ten companies, so the TTO office passed its goal. He thinks the reason for the high number is pent-up demand from before the TTO office existed.

In terms of start-ups, Larry is very happy with the progress. Mike Keller licensed 4 start-ups in 1994 and 1995 before the TTO office got on its feet. In 1995, Larry licensed six start-ups and then thirteen more in 1996. There have been three so far in 1997. Caltech has equity in all but a few of those companies.

Overall, the TTO office appears to be doing extremely well generating revenue for Caltech and creating a friendly atmosphere for professors to license their technology. While Larry notes that he can not guarantee his office will do as well this year as it did last year, he thinks that over the long term his office will be able to meet its goals.

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Caltech men's club volleyball off to a strong start

BY TYSON GRANT

Hoping to surpass last year's 18-7 record, the Caltech Men's Club Volleyball Team opened its season last week. Led by player/coach Andreas Masuhr, the team defeated Occidental twice and narrowly lost to USC in the preseason. Team president and outside hitter Weng Ki Ching has worked hard to schedule more matches than ever this year, including ten home games against difficult opponents such as USC and Harvard.

This year's team has a core of strong returning players with four new members. Returning at the outside hitter position are Andy Berkin, Mike Burl, Wndg Ki Ching, Koel Jones, Aaron Keily, and Jack Prater, who have all worked hard in the off-season to tighten up their defense and strengthen their lethal hitting. In the middle, returning giants Stuart Demcak, Gary Leskowitz, and Ken Wiberg put up an

impenetrable wall of a block to thwart opposing hitters and add the valuable element of the quick attack. Returning from an injury, setter Mike Machczinski is hoping to lead the team to victory with precise setting. At the opposite position, returning players Tyson Grant and Andreas Masuhr use their crushing hits to demoralize other teams and round out the offense.

New members to the team have really given Caltech new depth this year. At the setter position, Joe White has already led the team to two preseason and two regular season victories. New middle blockers Nick Lorenzen and Scott Van Essen present formidable foes for opponents and revel in smashing quick sets with enthusiasm that provides a spark for the team and the powerful play to back it up, Brent Horn rounds out the new additions at the opposite position.

On Thursday, January

30, the Caltech Men's Club Volleyball Team opened its season against Pomona-Pitzer.

Based on performances by their opponent last year, the team expected a tough match. Led by the serving of returning middle hitter Stuart Demcak, Caltech rolled over Roman-Pitzer in a solid three game win.

Caltech played its sec-

ond match, at home, against intercollegiate rival Occidental, on Saturday, February 1. Those in attendance were treated to an exhibition of great play and powerful offense that Caltech is becoming known for around the league. Excellent all-around performances by all players kept Oxy off balance the whole match, allowing Caltech to pound

them down for another three game win.

Come and support the Caltech Men's Club Volleyball Team this Sunday as they face Biola University at 4 pm in Brown Gym. For more information on the team and information about volleyball at Caltech, visit the web page at <http://www.cco.caltech.edu/~vball/VB.home.html>.

Lady Beavers beat LIFE Bible College

BY CALTECH SPORTS

On January 28th, the Beavers hosted LIFE Bible College for a second time this season. The Lady Hoopsters came away with their second win of the season, as well.

Coach Kerzie put in a new offense on the day prior to this game, and the team executed it very well. The offense is designed to get the ball to the low or high post and for the center and forwards to score, and that is what happened in this

game.

The ladies played a very good game to a very excited crowd. With Erika Swanson and Kara Swedlow back in the lineup after injuries, the Beavers were unstoppable. Two Beavers had career highs. Swanson came away with 29 points and Ellis Meng came away with 16. The entire team played very well offensively and defensively. Caltech won 58 to 44. On January 25th, the Beavers traveled down south to compete with

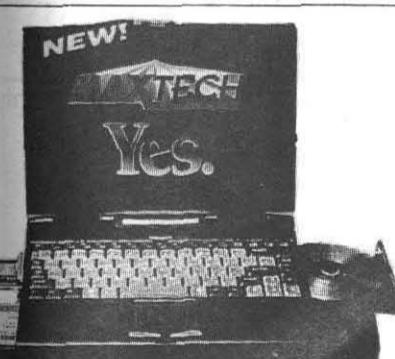
Christian Heritage. The opponents pressed almost the whole first half and Caltech had some trouble breaking it. The lady hoopsters were playing without Swanson and Swedlow, due to injuries.

Despite another loss for the Beavers, Coach Kerzie was pleased with the way the team ran their offense, particularly in the second half. They started to play with patience and ran the offense very well. Joanna Dodd and Ellis Meng lead the team with 6 points each.

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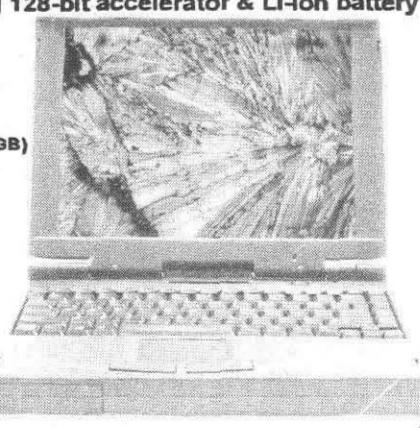


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Beaver swimmers stroke their way to victory

By AGOTA SPITZ

On January 17th, the Caltech swimmers and divers began a very tough weekend, competing against the top teams in California. The first competition was held Friday evening against Pomona-Pitzer. The lady Techers swam well, with Jen Holland and Hanna Kim slipping into second place in the 200 freestyle and 100 butterfly, respectively. Liz Callaghan, the high point for the women athletes, placed second on the 3m required dive competition and third on the 3m optional event. The men swam flat, not winning a single event, but consistently placed second and third. "Pomona-Pitzer swam tough and just kept winning the close races," quoted Coach Dodd. "We did get some nice efforts from Jason Hong in the distance swims, Wes Tanaka in the sprints, and Mike Fisher on the 3m board." Final score for the men: Caltech 76, Pomona 140.

The Caltech women scored 30 to Pomona. The weekend did not get easier, as CIT was pitted against men's and women's defending conference champs, CMS. "Actually both teams (men and women) competed much better against one of the top teams in the country,"

stated Coach Dodd. The men's relay team of Bircumshaw, Raman, Tanaka, and Lucas placed 2nd in the 200 medley relay. Keri Ryan swam a tough 400 yard IM, just missing getting under the 6 minute mark. Jason Hong, swimming on a bad ankle still managed a fast 100 backstroke (1:01.48) and placed 2nd. Final score for the men: CIT 110, CMS 148. For the women: CIT 62, CMS 141.

The weekend finished with just the divers competing against the best of the west at the UCLA Diving Invite. Teams from USC, Stanford, Berkeley, UCI, UCSD, University of Alaska, San Jose State, Bakersfield, Fresno State, and Caltech, were there competing on the last day of the 2 day meet. Phil Rodriguez was matched up against 13 divers on the low board and finished in 11th place, sandwiched between a Berkeley and a UCI diver. Liz Callaghan was against the bulk of the competition on the 3m board. Liz dove well and nailed her more difficult dives, placing her 21st out of 29 divers.

The swim team played host to Biola University on January 25th. The match was very close for the women's team, with Biola clinging to a 78 to 73 point advantage after 9 events. Keri Ryan and

Corrine Gilliam won 1000 yard distance and the 100 yard sprint, respectively. Coming back after the flu Phyllis Chen swam well, equaling or bettering her prior teams and helping by turning in 3 second place swims. The meet came down to the last 2 events which Biola won. Final score: Caltech 80, Biola 98.

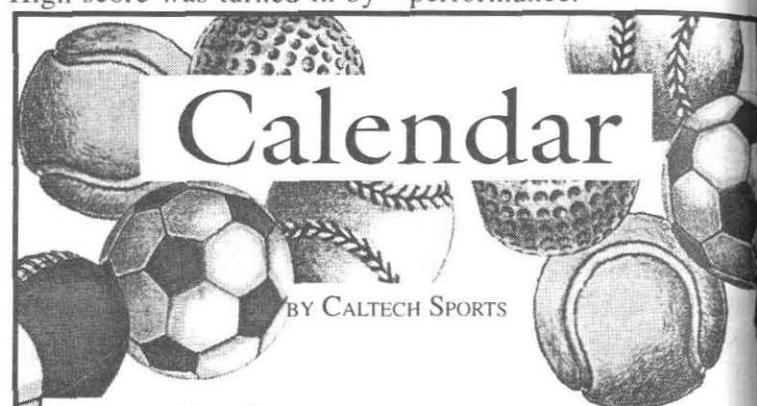
The men's team had a much easier time out distancing Biola early in the match and won every close race. Jim Pierce turned in the fastest time this season by a CIT swimmer in the 50 yard sprint with a time of 23.22. Mike Grebeck placed second with 25.41, touching out the Biola swimmer by .32. Freshman Rudy Perea won the 1000 freestyle continuing to better his time by dropping another 25 seconds. Dual winners included Pierce (50 free, 200 breast), Tanaka (200 IM, 100 free), Jason Hong (200 free, 100 fly), Radoslaw Osada (3m boards of the meet were Phyllis Chen and Corrine Gilliam. Both women swam extremely well and accounted for 27 of the teams 80 points. The men's MVP for the meet was first year diver Radoslaw Osada and distance swimmer Rudy Perea. Radoslaw had eleven dives on the 3m board and scored over 200 points. Rudy

swam three individual events and continues to improve in all areas.

The Caltech diving team consisting of Liz Callaghan, Mike Fisher and Phil Rodriguez traveled down to UC San Diego over the weekend.

The invitational had 14 men and 15 women competing, who came from as far away as UC Santa Cruz. High score was turned in by

Rodriguez on the 1m board. The score of 207.80 gave Phil a third place finish. Fisher scored 163.10, finishing 8th on the 1m. Fisher countered with a third place finish on the 3m while Rodriguez dropped to 7th. Callaghan was consistent and dove well, placing 7th on both the 1m and 3m boards. Assistant Coach Adam Burgasser was very pleased with the team's performance.



BY CALTECH SPORTS

SATURDAY FEB. 8TH

- WOMEN'S TENNIS TOURNAMENT ALL DAY
- FENCING CONFERENCE TOURNAMENT 10 A.M.
- SWIMMING VS. WHITTIER 11 A.M.
- BASEBALL AT RIO HONDO 6 P.M.
- MEN'S BASKETBALL VS. LAVERNE 1 P.M.

SUNDAY FEB. 9TH

- WOMEN'S TENNIS TOURNAMENT ALL DAY

MONDAY FEB. 10TH

- GOLF VS. LAVERNE 1 P.M.

TUESDAY FEB. 11TH

- BASEBALL AT CITRUS CC 2:30 P.M.

WEDNESDAY FEB. 12TH

- MEN'S TENNIS VS. CMS 3 P.M.
- MEN'S BASKETBALL AT REDLANDS 7:30 P.M.

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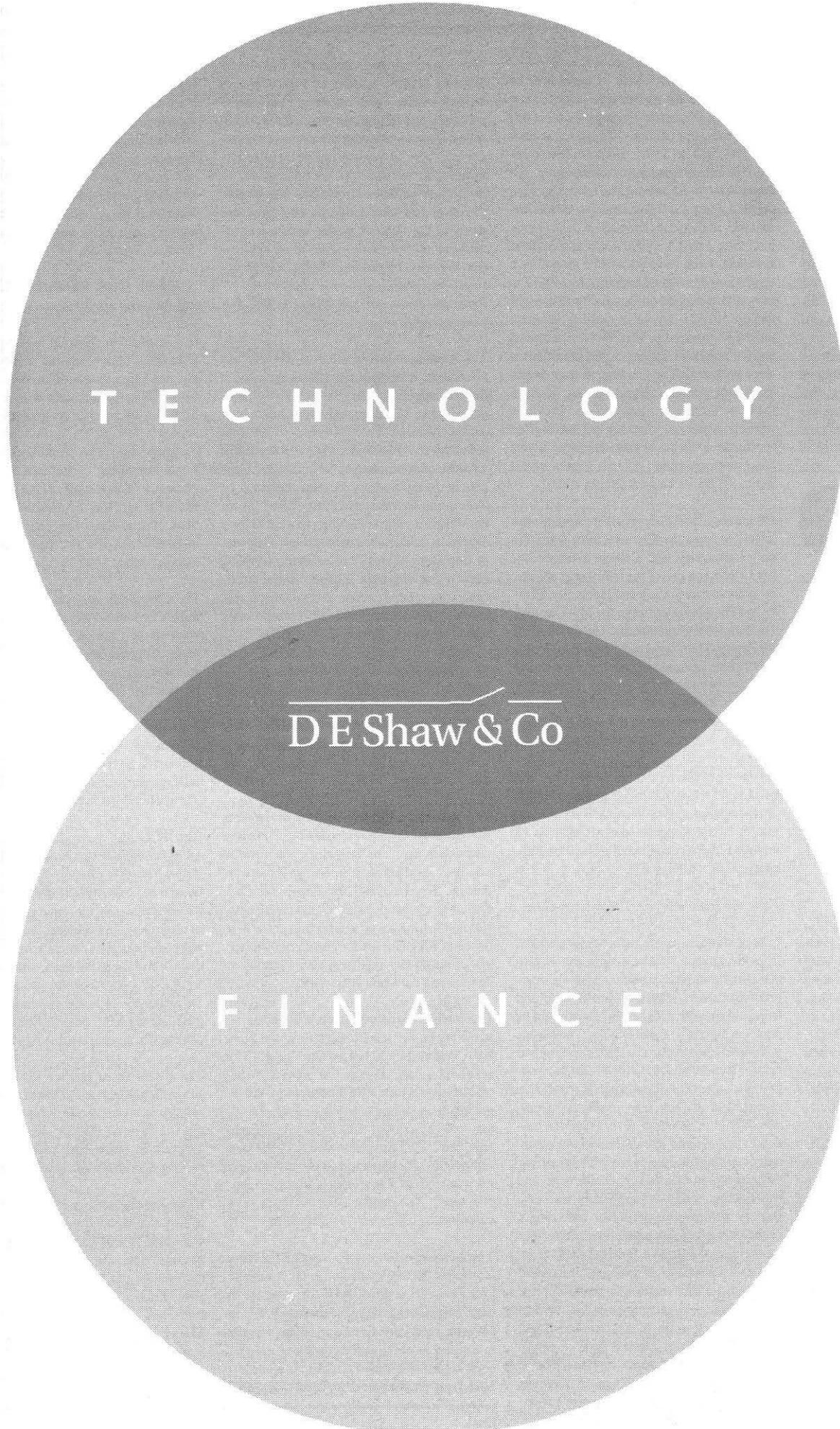
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We're recruiting at CalTech:

On-campus information session:

February 17, 4 pm in Room 13
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Off-campus interviews:

February 18

Submit resumes by February 10 to
oncampus@deshaw.com or
(212) 403-8499 (facsimile)

Events

Finally! An ASCIT Movie, *Dr. Strangelove, or How I stopped worrying and learned to love the bomb*. Showing at 7:30pm and 10:00pm in Baxter Lecture Hall. Admission for ASCIT members is \$2.00, and \$2.50 for non-members.

Dr. Demento will be celebrating his 27 1/2 Anniversary in Beckman Auditorium, on Saturday, February 8th, at 8pm. The show will feature audio, as well as video, selections and guest appearances from Bill Frenzer (*Dead Puppies*), Henry Phillips (*Standing on the Shoulders of Freaks*), and a mystery celebrity artist. Ticket prices for Caltech/JPL faculty and staff are \$19.00, \$16.00, and \$13.00; the price for Caltech students is \$5.00. For more information call x4652.

The Berlin Philharmonic Woodwind Quintet will be performing at Beckman Auditorium, on Sunday, February 9th, at 3:30pm. This Coleman Chamber Concert features Schuller's Jazz Suite, Barber's Summer Music, Ligeti's Six Bagatelles, Quintets by Carter and Villa-Lobos, and Dedaglia's Brasilien Suite. Prices for Caltech/JPL faculty and staff are \$19.50, \$16.00, \$12.50, \$9.00 for advanced purchases. Beginning February 3rd there will be 50 free tickets available for Caltech students at the Caltech Ticket Office. For more information call x4652.

There will be a candidates forum organized by Councilman Bill Thomson. Meet the three candidates who are running the District 7 seat: Roy Begley, Sarah Smith Orr, and Sid Tyler. Forum will be held Wednesday, February 5th, 7:30pm at Allendale School Auditorium, 1135 So. Euclid, and Wednesday, February 12th, 7:30pm at Hamilton School Auditorium, 2089 Rose Villa.

*Dr. Arden Albee, professor of geology, will give a Watson Caltech Lecture, "Return To Mars-Twenty Years After Viking." The lecture will be given in Beckman Auditorium, on February 19th, at 8:00pm. Admission is free. For more information call x4652.

*TACIT will perform Tom Stoppard's "Dogg's Hamlet, Cahoots Macbeth" at Ramo Auditorium. The play will be showing Thursdays, Fridays, and Saturdays at 8:00pm, and Sundays at 2:00pm, on February 20th-23rd and February 27th-March 2nd. David and Judy Goodstein will pay for the ticket for any Caltech undergraduate who wants to see the performance. Just sign up at the Deans' Office, 102 Parsons-Gates for any performance and the ticket will be waiting for you at the box office.

*The Armchair Adventures travel film, "Japan," will be showing at Beckman Auditorium, on February 21st, at 8:00pm. Presented by travel lecturer Dr. Dwayne L. Merry. Admission for Caltech students is \$4.50. For more information call x4652.

On February 21st, 1997, Dr. Ned Block Professor of Philosophy and Psychology New York University will give the lecture *Race and Genes: The Fallacy on Both Sides*. The lecture is in Baxter Lecture Hall at 4:00 p.m. Refreshments will be served following the seminar. For more information, call x4087.

*Acrobats of the Chinese Zodiac will be performed at Beckman Auditorium, on February 22, at 8:00pm. The Chinese Golden Dragon Acrobats use the animals from the 12 signs of the Chinese Zodiac to create an "Eastern Circus" with acrobatics, magic, music, and dance. Admission for Caltech students is \$5.00. For more information, call x4087.

Caltech Guitar Classes for the winter quarter will meet on Tuesdays starting January 14th in Room 1 of the Student Activities Center (SAC). The beginning class will be held

from 4:30pm to 5:30pm, intermediate class from 3pm to 4pm, and the advanced class from 5:30pm to 6:30pm. Classical and Flamenco repertoires are explored but the techniques transfer to other styles of guitar. The Beginning Class includes a jazz/folk chord system. Classes are free to Caltech students and other members of the Caltech community (space permitting). Undergraduates can receive 3 units of credit if they choose. Private instruction on any level can also be arranged. The instructor, Classical Guitarist Darryl Denning, has an international background in performance, teaching and recording. For further information on the classes or Mr. Denning's new compact disc recording, please call (213) 465-0881 or e-mail Mr. Denning at *ddenning@cc.caltech.edu*.

Salsa classes with Richard Orozco of Let's Dance LA continue during February in the Dabney Lounge Thursday nights this term from 7pm to 8:30pm. The cost is \$3.75 to Caltech undergraduates, \$5 to other Caltech and JPL affiliates, \$5.50 to non-affiliates. Beginners, singles, and couples are welcome. The classes are sponsored by the Caltech Ballroom Dance Club with professional instructors from Let's Dance LA. For more information call Adam Showman at 796-1098 or *showman@earth1.gps.caltech.edu*.

The Caltech Ballroom Dance Club will offer free beginner Waltz lessons in Winnett Lounge 8-9:30 Wednesday evenings, Feb 5th, Feb 12th, and Feb 26th. A Viennese Waltz crash course will follow. Check out the club's new web page: <http://www.caltech.edu/~ballroom>.

From the Counseling Center

Looking for a safe and supportive place to discuss issues such as coming out, being out, dealing with family, coping with a homophobic culture, and being GLB at Caltech? Want somewhere just to make new friends? You are invited to the Gay/Lesbian/Bisexual Support Group, which meets on the first and third Tuesdays of each month from 7:30pm till 10:00pm in the Health Center lounge. This is a confidential meeting and attending does not imply anything about a person's sexual orientation—only that he or she is willing to be supportive in this setting. The group usually discusses a particular relevant topic and then moves on to the general discussion. Refreshments are served. If you would like more information, please call x8331.

Stress Management for Students

*For help in learning how to relax and manage stress, Jon Pedersen, Ph.D., and Fern Klapper, M.A., of the Caltech Counseling Center, will be offering a four-week workshop beginning February 11th. On each of four consecutive Tuesdays, from 12:00 - 12:50pm, a variety of practical, simple, and effective techniques will be taught, ranging from progressive relaxation to basic meditation techniques to the principles of healthy living. The sessions will be primarily experiential and will build on material from the previous week. This workshop is open to any student and if you are interested, please contact Dr. Pedersen at x8331.

*The Caltech Counseling Center is sponsoring a program entitled "Stress Management in the First Two Years of Graduate School." This program will consist of a discussion and presentation by a panel of graduate students (Selena Forman, Weng Ki Ching, and Ivett Leyva) and Counseling Center staff Aimee Ellicott, Ph.D. and Deborah Southerland, M.A. We will focus on the specific kinds of stress grads encounter as first and second year students, such as adjusting to graduate school, qualifying exams and relationships with advisors. The program is open to all graduate students and will be held on Thursday, February 13th, from 6:00-7:30pm in Winnett Clubroom One. Light refreshments will be provided.

If you have any questions about these programs or want to discuss your individual questions or concerns regarding coping with stress, please contact the Counseling Center at x8331.

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Fellowships and Scholarships

*Literature Prize Announced. The Literature faculty is pleased to announce the 51st Annual McKinney Competition. The Mary A. Earl McKinney Prize is awarded each year for excellence in writing. Only full-time students officially registered at Caltech as undergraduates are eligible to enter the competition. This year, prizes will be given in three categories: poetry, prose fiction, and non-fiction essays. All submissions must be typewritten and double-spaced. In the poetry category, entrants may submit up to three poems. Submissions of prose fiction should not exceed 12,000 words. Essays may be ones prepared for a humanities class or any good piece of original writing on a topic relevant to the humanities. The prizes in each category will be \$300. Each student is entitled to only one entry in each category. All contestants must submit their work to Professor Jenijoy La Belle, Division of the Humanities and Social Sciences, 101-40, by no later than April 4, 1997. No entries will be returned. Each category will be judged by a committee from the Literature faculty. Essays will be judged on the quality of thought and the effectiveness of the writing. Winners will be announced in May, and the names of the winners will appear in the commencement program. The Committee may divide the award in each category in case of more than one outstanding submission. Previous winners in any one category are not eligible for the competition in that category. If you have any questions, contact Professor La Belle, x3605, or Doreen Domb, x3610.

All graduate and undergraduate students are invited to enter the Hyundai 50th Anniversary University and College Student Essay Contest on one of the following subjects: the Information Society and Humanity; Family and Human Relations in the 21st Century; The Industrial Structure and Occupations of the Future; The Corporation's Roles as a Global Citizen; Sustaining Economic Growth and the Environment in Developing Nations; or Women's Roles in the 21st Century. To enter, complete and submit the online registration form found at <http://www.hyundai.net/contest/welcome.html>. Entries should be written on one of the six themes listed above and be 15 to 20 A4- or letter-size pages in length, double-spaced, in MS-Word or HWP file format. A 2-page essay abstract should also be included. Application deadline will be February 28th, 1997.

From the Dean's Office, 102 Parsons-Gates.

Caltech students interested in a career-related to environmental public policy and Native American and Alaska Native students interested in careers related to health care and tribal public policy are invited to apply to be named a Morris K. Udall Scholar. The Morris K. Udall Scholarship and Excellence in National Environmental Policy Foundation operates an educational scholarship program designed to provide opportunities for outstanding U.S. students with excellent academic records and demonstrated interest in, and potential for careers in the fields of environmental public policy, health care, and tribal public policy. All applicants must be a current sophomore or junior pursuing a bachelor's degree on a full-time basis, have an average of at least a B or the equivalent, be a U.S. citizen, U.S. national, or resident alien, have a demonstrated interest in a career in environmental public policy or be a Native American or an Alaska Native and have demonstrated interest in a career in health care or public policy. If you are interested, please contact the Dean of Students Office, 102 Parsons-Gates, for an application. Deadline for receipt of nomination materials to the foundation is March 3rd, 1997.

The Jewish Vocational Service is accepting applications for scholarships from the Jewish Community Scholarship Fund. The scholarships are designed to provide financial assistance to Jewish students who are legal residents of Los Angeles County, attending college on a full-time basis. Applicants must have a 2.5 minimum G.P.A., must be a sophomore or higher by September 1997, and must be able to document significant financial need. The deadline for submission of completed applications is April 15th, 1997.

The American Society of Naval Engineers is offering \$2,000 scholarships for academic year 1997-98 to students who are interested in naval engineering. Applicants must be U.S. Citizens, must demonstrate a genuine interest in a career in naval engineering, and must be applying for either their last year as an undergraduate or for one year of graduate study (doc-

toral candidates not eligible). The deadline to submit applications is February 15th, 1997.

The American Chemical Society is sponsoring a scholarship program for qualified applicants who want to enter the fields of chemistry, biochemistry, chemical engineering, or other chemically related fields such as environmental science, materials science, or toxicology. To be eligible to apply, candidates must be African American, Hispanic, Latino, American Indian, or Alaskan Native, and must be U.S. citizens or permanent residents. Applicants must also be full-time freshmen, sophomores, or juniors, majoring in one of the above fields, and must demonstrate financial need. The deadline to submit applications and supporting documents is February 28th, 1997.

The Danville-Alamo Branch of the American Association of University Women (AAUW) will be awarding several scholarships of \$500-\$1,000 to female college students who will be juniors or seniors as of September, 1997, and who have lived in the San Ramon Valley, or have attended school there. Applicants will be evaluated on the basis of scholarship, achievement, educational goals, financial need, and campus or community involvement. An application package can be obtained from: Mary Ann Osborne, 2530 Roundhill Drive, Alamo, CA 94507. Completed applications must be postmarked by Tuesday, April 1st, 1997.

From the Financial Aid Office, 515 S. Wilson, second floor:

The American Meteorological Society announces its AMS/Industry Undergraduate Scholarship Program. For the 1997-98 academic year, 18 undergraduate scholarships will be awarded. Two categories of students are eligible: 1) Students who are enrolled in a course of study leading to a bachelor's degree in the atmospheric or related oceanic or hydrologic sciences, and 2) students who are enrolled in a program leading to a bachelor's degree in science or engineering. Students in this latter category must demonstrate a clear intent to pursue a career in the atmospheric or related oceanic or hydrologic sciences. Applications and supporting documents are due February 21st, 1997.

The Marin Education Fund announces the opening of its 1997-98 Undergraduate Grant application process. Applicants must be residents of Marin County, be enrolled at least half-time in undergraduate study, and have a low to moderate income. Applications are due March 2nd, 1997.

The American Women's Club in Sweden will be awarding a travel grant for study and research in Sweden. To qualify you must be a woman, age 18 or over, and an American citizen. You must also be accepted for a period of study or research at a Swedish educational institution or agency and show evidence of financial need. The completed application and all supporting documents must be received by April 15th, 1997.

The Jewish Vocational Service is accepting applications for scholarships from the Jewish Community Scholarship Fund. The scholarships are designed to provide financial assistance to Jewish students who are legal residents of Los Angeles County, attending college on a full-time basis. Applicants must have a 2.5 minimum G.P.A., must be a sophomore or higher by September 1997, and must be able to document significant financial need. The deadline for submission of completed applications is April 15th, 1997.

The Coalition of Higher Education Assistance Organizations (COHEAO) is pleased to present an opportunity for students to apply for three \$1,000 scholarships and three \$200 runner-up awards. Applications and supporting documents are due May 15th, 1997.

*The American Scandinavian Foundation of Los Angeles will be awarding five scholarships of \$1,000 each to upper division and graduate students. Applicants must exhibit a connection to Scandinavia via life, experience, field of study, or heritage. Applications and supporting documents are due April 15th, 1997.

The American Society of Naval Engineers is offering \$2,000 scholarships for academic year 1997-98 to students who are interested in naval engineering. Applicants must be U.S. Citizens, must demonstrate a genuine interest in a career in naval engineering, and must be applying for either their last year as an undergraduate or for one year of graduate study (doc-

THE CALIFORNIA TECH

Caltech 40-58
Pasadena, California 91125

The Dean of Students Office is accepting proposals for the Monticello Foundation Internship and the Robert and Delpha Noland Summer Internships. Three to five Caltech undergraduate women will be given an opportunity to participate in research projects outside of the Caltech community for ten weeks during the summer. Each student will receive a \$3,500 stipend. Applicants are required to identify the projects in which they wish to participate. All arrangements with the principal researcher will be the responsibility of the student. There are no restrictions as to where the research can be done, except that it must be outside the Caltech-JPL community. Other universities, commercial labs, or any industrial facility in which the student can arrange to conduct or participate in a research project can be the site for the experience. Each student will be asked to submit a short syn-

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14. BEST LINE TO GET A WOMAN/MAN IN YOUR ROOM _____
15. SEXIEST HUM PROF _____
16. BEST FEATURE OF THE TECH _____
17. WORST FEATURE OF THE TECH _____
18. BEST OFF-CAMPUS HOUSE _____
19. BEST ROOM/CLASSROOM TO SLEEP IN _____
20. MOST DESPISED PERSON ON CAMPUS _____
21. BEST UNABOMBER LOOK-ALIKE _____
22. FAVORITE HIDING PLACE ON CAMPUS _____
23. CAMPUS ALIEN _____
24. MOST GLOMMALE STUDENT ON CAMPUS _____
25. MOST SLEEP INDUCING CLASS _____
26. BEST COLOR OF HAIR (AND PERSON IT WAS ON) _____
27. COOLEST HOUSE T-SHIRT _____
28. BEST PLACE TO GET LAID ON CAMPUS _____
29. COMIC YOU WOULD MOST LIKE TO SEE IN THE TECH _____
30. BEST NEWSPAPER _____

Article 9: Watercolor on squirrel hide

Ep/pe, pep/pe, kak/ke!"

"My god, doctor! Is that serious?"

"I'm afraid it's terminal. You have three hours to leave. Nurse!"

"Hil/lo, hol/lo, hel/lo!"

"Yes doctor?"

"Come closer."

"Who am i then? Tell me that first and then, if I like being that

person, I'll come up: if not, I'll stay down here till I'm somebody else."

"Ziz/zy, zaz/zy, zik!"

"Seven cunning traps, any one of which is lethal."

"What in hell are you talking about?"

"Owe! Your eyes said 'yes.'"

"What, How dare you accuse me so harlot!"

"Look! Here they come! They're so beatiful!"

"Shut up. The flying monkeys are not coming to fix all of the wrongs in your world. My god, Alice! Is that Ted Koppel?"

"But you must pay the rent!"

"What? That's my line!"

"No it's not, you aren't even in this scene you dolt!"

"Duck!"

"Stop attacking me with flaming hairpieces. That's an

old and unfunny joke. And I don't appreciate your chides about my shoelace size either."

"This is intolerable! Sick her boy! Kill! Kill!"

"Before you shoot, Trevor, there's something you should know. Do you remember 1847, romantic music in Vienna, one night with a hedgehog umbrella and corkscrew underwear?"

"What? You mean!?"

"Yes. That armoire was my father."

"But that's impossible! I'm impotent!"

"Most people thought the Van Allen belts were quite hot, but they're actually nice places for a condor."

"I don't understand what your opinion has to do with all this."

"If your not the one, that means—"

All look at john who continues to fill his drool cup in which swims a small kitten who, embarrassed by the sudden attention, regurgitates a walleye

which after swallowing every-

one who to this point had a speaking role,

straightens his tie and saunters to the nearest garden gnome bakery.

You itiot! You've fed all my narrators to a fish? How am I supposed to write this article?

Just stop. No one cares. Your article sucks. Your writing isn't even

worthy of setting in some corner web site, much less finding an actual reader.

And just how many people did the fish swallow? Two? Three?

A dozen? You don't even know! You just keep writing worthless crap, a string of words

that don't make much sense and don't contain any subtlety of thought. You

haven't even tried to be symbolic or expand any truth. You just keep writing

and writing and get nowhere.

Shut up! Shutup! SHU'UP! or i'll start giving you quotation marks!

So what? The fish just choked to death on a blue gnome's beard. There's nothing you can do.

"Once upon a time, a boy lived with his petting monkey and faithful dog

Mr. Woofs in a land infested with..."

Knock it off. We know you've nothing to say.

That's not true. The winged monkeys did fix everything!

Avery

This Shit is the Bomb

This shit is the bomb, man! I was sittin' in my Avery single, without a thing to do in the world, so I popped this CD in my boombox and sat down on my bed with some suds in one hand and my dick in the other (so there were suds in both hands...). It was pure ecstasy, and the music was good, too. I'm tellin' you, man, those happenin' vibes stuck to me like white on rice. Or maybe that was the cum. The beat was fantastic dude... after a while I started levitating in mid-air, and that's when the drugs started to kick in. But the music was still in the forefront; It pounded me up and down and up and down. Even after I came it had me movin' at

near light speed... at one point, my torso became detached from my limbs, and when that bitch's voice kicked in, I felt like my head was gonna fuckin' explode! Every part of my body was twitching back and forth, and I started randomly screaming obscenities. But that was just the one side of the album. It was also real mellow. The music flowed through every (that's right, every) part of my body —every muscle completely relaxed — it was an orgasmic feeling (and this is after I had ejected every last drop of cum from Mr. Happy).

Eds. note: Please, I NEED to know the name of this CD!

Announcements

° This week's ASCIT Movie will be **Debbie Does Dabney**, playing at 7:30pm and 10:30pm in Dabney Lounge. Admission is \$150 for ASCIT members, or free with participation. No unshowered Scurves allowed; please bring protective gear.

° Construction of the Kim West Memorial Highway between the north houses and Avery will begin promptly at noon on **February 7** with the demolition of Page House. Explosives will be placed and augmented with acetone by members of Blacker and Ricketts. All upperclass Flemms and Fleming Alumni are encouraged to purchase raffle tickets for the privilege of blowing Page to bits.

° Graveyard shift Central Plant and Security employees would like to inform the undergraduate community that they are lonely and would like some **donuts**. Please? Aww, come on. You know you want to. Pretty please?

Carbon Monoxide is a colorless, odorless gas that is dangerous in large amounts because it binds more strongly to hemoglobin than oxygen does, thus cutting off the transport of oxygen in the circulatory system of any enemy or archnemesis you might have. Not that we would ever encourage such activities to force a room pick.

All undergraduates currently housing cows, sheep, chickens or other livestock for carnal purposes are asked to register their compainions for safety purposes with the Housing Office by **next Wednesday**. For convience and to prevent the creation of critical mass, members of Ruddock House are asked to leave their room locks on override to lessen the burden on Housing.

All livestock subject to annual examination by the Health Center or the Division of Biological Sciences.

° Auditions for the T.A.S.S.C.I.T. Valentine's Day performance "A Midsummer Night's Wet Dream," will be held in Ramming Auditorium Friday the **7th** at 4pm, Saturday the **8th** at 5pm, and Sunday **all night long**. Prospective cast, crew, and staff are welcome to come and lend a hand (or assorted other more desirable body parts) from all of the Caltech community. Please call x1748 for more information.

The Housing and Safety Offices will be removing the Ricketts Hovse showers over the course of the next two weeks due to a lack of use and biohazard contamination problems.

° The Dabney Hovse Orgy™ will be

held on February 15th, probably in the backyard. ALL are welcome to come; the Dabney Hovse chemists have guaranteed at least 300 condoms will be available. Flemms are encouraged to come, but please leave the sheep at home, the wool can really chaffe.

° If you don't enjoy sexually explicit and completely random Mints come down and work for the Tech so that we have something better to fill the back of The Inside World with.

Come on, you like this don't you.

° The 10th annual **Hug a Flem** contest will be held right after the Dabney Hovse Orgy on February 15th. Health advocates will be present to treat any major or minor injuries which may occur when you are totalling up the number of Flemms you have counted.

Events

Visiting Professor Do Mii Hass will be continuing his Indian Literature series with a seminar on the **Kama Sutra**. Demonstrations of the techniques illustrated in the text will be provided. Members of the Caltech Mens and Womens Athletic teams are encouraged to volunteer as performers.

° The **Engineering and Applied Sciences, Geology and Planetary Sciences, Chemistry and Chemical Engineering, Physics, Mathematics and Astrology, Biology, Humanities and Social Sciences** departments will be presenting a joint colloquium on "Life, the Universe and Anything Else" in Gates 222.

Someone finds the **light switches** in the rooms in the undergraduate houses to be rather inconvenient. They feel it is rather silly to have to get up from their desk (which is under a loft) and walk to the door just to turn the light on or off. This person believes it would be nice to be able to flip the switch from almost anywhere in the room. If you find this amusing please join John and Oliver as they rewire the **Hell Alley lights** to do their bidding. No frosh please, but Hell S'mores and Juniors are encouraged to apply.

The Admissions Office is looking for a large number of male undergrads interesting in going on a **camping trip to Catalina Island** during prefrosh weekend '97. Students would leave the Tuesday before prefrosh weekend began and return the following Monday or whenever all prefrosh have been confirmed

Mints

° denotes a new announcement.

to have left campus. Transportation to Catalina will be provided, however return trip spaces will be limited to the first 3 who apply.

From Dabney East Mental Maintenance

Seniors, looking for a place to go after graduation? Frustrated by the ratio? Dabney East can help. We pay you to complete the mental unbalancing that 4 or 5 years at Caltech has started. Free room, board, and prescription drugs provided to all who apply. Leather manacles and straight jackets are included with admission. Also included are 24 hour a day onsite security and Medeco™ locks to prevent even the most industrious moles from escaping.

Biochemistry Majors, looking for test subjects to try out that hot new molecule you just designed? Dabney East can provide with all the people you need for your preliminary FDA trials. Quite, heavily sedated former Techers will be avialable in late June to early July for rapid testing. Need cancer or other dieses stricken patients? Provide us with a sample and we'll have subjects ready in no time. Reasonable rates and no questions asked. We even provide autopsies for free. Just ask for John when you ring the buzzer in the back alley.

Fellowships and Scholarships

° **American Applied Polical Science Association Research Fellowship** All states and all dominions that have had and continue to have power over men were and still are either republics or principalities. Principalities are either hereditary, in which instance the family of the prince has ruled for generations, or they are new. The new ones are either completely new, as was Milan for Francesco Sforza, or they are like members added to the hereditary state of the prince who acquires them, as is the Kingdom of Naples for the King of Spain. Dominions taken in this way are either used to living under a prince or are accustomed to being free; and they are gained either by the arms of others or by one's own either though fortune or through ingenuity.

American Sportswomen

With a horny howl, I pounced on him, diving into his cotangent with my mouth. Gobbling and slobbering over his large, purple veined integration tool, I was in a Hilbert space paradise. Then,

when I felt his buddy grab my ass and pull open my abelian surface, With the hard, throbbing cock deep down my throat, I came with a gurgle the instant the other snatch. "Watch it, Claire! You'll bite my Chem 1 notes off!" said the guy I was sucking. I let his cock slide from my open mouth but didn't let go with my hands.

Psychology Internship

Students interested in applied psychology are encouraged to apply for the **Dabney East** resident visiting scholar program. Selected applicants will have the opportunity to experience all that Dabney East has to provide in psychological services including electroshock therapy, chinese water treatment, sleep deprivation, and the latest in designer sedatives.

American Family Farm Scholarship applications are now available on the north side of the barn or wherever you buy seed corn. Prospective applicants should have lived on a money losing farm for the past 5 to 10 years. Recent foreclosure victims are also encouraged to apply. The sucessfull applicant should have knowledge or animal husbandry, crop rotation, and shoud be able to differentiate between major brands of herbicide by scent, texture, and taste when used in mixed drinks.

How beautiful you are, my darling! Oh, now beautiful! Your eyes behind your veil are doves. Your hair is like a flock of goats descending from Mount Gilead. Your teeth are like a flock of sheep just shorn, coming up from the washing. Each has its twin; not one of them is alone. Your lips are like a scarlet ribbon; your mouth is lovely. Your temples behing your veil are like the halves of a pomegranate. Your neck is like the tower of David.

Song of Songs Chapter 4, verses 1 through 4.

° Residents of **Luck, Wisconsin** are encouraged to apply for the **Best Place to Buy a Lottery Ticket** scholarship. Applicants should be majoring in Business, Voodoo (Keynesian) Economics, or Statistic Falsification at any American institution of higher learning or cosmotology.

Attention Space Exploration Enthusiasts, you have been given the opportunity to design and fly a rocket to go to Pluto. In the style of the first Moon surveyor missions, you will launch a rocket straight for the planet that will take pictures as it crashes onto the Plutonian surface. But Pluto is a very small planet, a purple cartoon dog, and you don't want your rocket to miss and end up on the Disney channel! The goal of this random scholarship is to figure out how far you can aim your rocket from the center of Pluto and still have it hit. Planetary Science majors are encouraged to apply.

Classic Literature segment: And then he drew a dial from his poke, And look-

ing on it with lack lustre eye, Says very wisely, "it is ten o' clock. Thus we may see," quoth he, "how the world wags: 'Tis but an hour ago since it was nine, And after one hour more 'twill be eleven, And so from hour to hour, we rot and rot; And thereby hangs a tale."

For more information please contact Professor LaBelle, Dabney Hall 207.

Society for the Promotion of Family Morals would love to see you go down on my wife. She is very conservative, 5'6", 110 pounds, Rush Limbaugh admiring, dark brown hair with a bodacious butt and pussy, that I can kiss and lick and suck on for as long as I can while her soft lipps slide gently up and down my rock hard love stick, as she slowly strokes the shaft. I love it when she does a Laurent expansion about my singularity. Incidentally, my wife has never been intimate with another woman but my fantasy is to share my wife with a beautiful, licious babe that really enjoys a moist pussy and to teach her to enjoy the same while she crouches on all fours to explore your nipples, stomach and thighs and while your tongue explores her pussy as my love wand alternates between your lips and her pussy. By now both of you are feeling wonderfully relaxed as we take our time bringing pleasure to each other and I am ready to spread her cheeks for her first penetration anally while you continue to locate the g-spot for the ultimate climax.

The Department of War Beatnik Grant applications are now avaiable from your local drug dealer, Coffeehouse representative, or protest organizer. The Beatnik grant is to encourage pacifism in the scrawny or otherwise not physically or mentally fit for military service as to lessen the load on the Unselective Disservice Agency when the time of war arises (and it will, we promise). The Beatnik grant allows all you pansy tree huggers to scrap shit out of inner city high school toilets instead of killing damn Commies like good red blooded Americans to protect the oil industry.

° Computer Science majors who will be juniors in the 96-97 academic year are invited to apply for **Over Wired Magazine's Geek of The Year** talent search. The competition will reward excessive trolling, using a slide rule, quantifying love, and coordinating pocket protectors with laptop cases. Style points for most creative allergies, most complete knowledge of BASIC, and largest collection of "nerd shirts." Special prizes will be given for LISPing and Perls of wisdom. Also, there will be an award for most beautiful lab environment.

This is The Inside World, if you wanted real mints look in The California Tech. And to all you frosh, be kind to Housekeeping and please clean up the bathroom after you are done reading this.

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