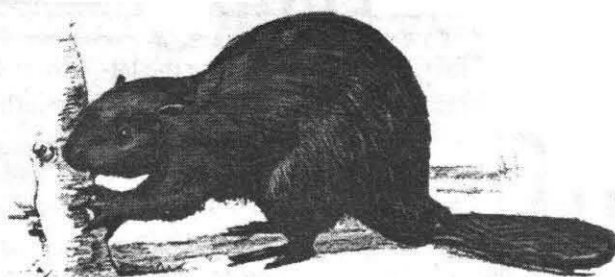


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Ernest Explains returns

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Newsflash! Security finds Crime and Incident Report

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THE CALIFORNIA TECH

VOLUME XCVIII, NUMBER 13

PASADENA, CALIFORNIA

FRIDAY, 17 JANUARY 1997

Hans Bethe speaks on the making of the bomb

BY ERIK STREED AND JOE TRELA

Hans Bethe, professor emeritus of Cornell University, Nobel laureate and one of the pioneers of modern quantum physics, gave an hour long general interest retrospective on "The Making of the Bomb" this Thursday the 16th of January. The talk had to be moved from 201 East Bridge (the normal site of Thursday Physics Colloquium) to the more spacious Ramo Auditorium due to an unexpected surge in interest that may have been related to the L.A. Times mentioning the event in its weekly Science Calendar. As it was, even Ramo was unable to seat everyone who wanted entrance and the lobby was packed with people trying to listen to the talk as it was piped outside through speakers.

This year's talk was much less technical than in years past and dealt with his experience with the Manhattan Project to develop a working atomic bomb during World War II. He described how nuclear

fission, the principle behind the A-bomb, was discovered by Otto Hahn in late 1938 and a theory explaining the process was developed in 1939. By 1941, there were at least four countries attempting to develop a weapon based on fission that had a legitimate chance of success: Germany, Britain, the Soviet Union and the United States. The Soviet Union's research program was shocked into near-inactivity by the sudden German invasion of mid-1941, while the American program, which had been initiated by Albert Einstein's personal letter to President Roosevelt on the day before Pearl Harbor, was proceeding at a pace that could be charitably called stately. In England the war with Germany spurred intense interest in the development of fission weapons. The secret "Maud Committee" was formed and determined that a nuclear weapon was feasible. While England lacked the resources to build the bomb, America possessed the industrial strength and manpower to produce a weapon before the Germans. Since

America was the only one of the Allied Powers with this ability, their effort was thrown into high gear with the appointment of General Leslie Groves as head of the project in September 1942.

Bethe emphasized in his talk that the successful creation of the bomb by the United States consisted of many related projects that dealt with one particular problem. During the question and answer session after the talk Hans Bethe was asked if more freedom of communication would have hastened the creation of the bomb. Bethe responded that the limiting factor was the production of fissionable materials (plutonium and enriched uranium) and that many of the projects, like the explosive lens, were completed successfully without revealing the entire project. When questioned if America should have dropped the bomb on Japan, Bethe asserted that it saved lives by ending the war quickly and preventing the Japanese from making a bloody last stand. In an interview afterwards by The Tech, Bethe indi-

cated his support for the Department of Energy's nuclear stewardship program of replacing nuclear tests with advanced supercomputer simulations.

Hans Bethe was born in Germany in 1906 in the contested province of Alsace-Lorraine along the French border. He entered the University of Frankfurt in 1924 and received his doctorate in 1928. Bethe was forced to flee with his wife to England in 1933 because of the rising power of the Nazis. In 1935, he accepted an assistant professorship at Cornell University, with which he has remained affiliated to this day. In 1938, he produced the work on stellar energy production that would earn him a Nobel Prize in Physics in 1967. Richard Feynman received his Ph.D. from Hans Bethe in 1942. Bethe officially retired from Cornell in 1975, but he continues to work on the physics of supernovas and neutron stars. These talks are a yearly event for Bethe, who usually spends a month or so at the balmy environs of Caltech on winter sabbatical.

Maurer takes first in SURF competition

BY SAMSON TIMONER

Sebastian Maurer won first prize in Wednesday's third and final round of the Doris S. Perpall SURF speaking competition for his presentation of numerical simulations of magnetic vortex lines in type II superconductors.

The competition took place in the Beckman Institute Auditorium. Out of more than 180 original presenters, eight finalists remained to compete for three prizes on the basis of presentation skill. The finalists presented a wide range of scientific research, ranging from femtosecond chemistry, which was examined by Julius Su, to the study of turbulent gas mixing by Stephen Chase.

Steven Bennett secured second prize with his talk concerning the study of titanium dioxide in the presence of ultraviolet light as a catalyst for the degradation of organic pollutants in water. Fay Peng took third place for her presentation of her work examining one aspect of cancer cell migration through the basement membrane of blood vessels. Also presenting were Brian D'urso on electromagnetic waves in dielectric structures, Matthew Barnet on engineering protein-membrane interactions and Christopher Chang on the

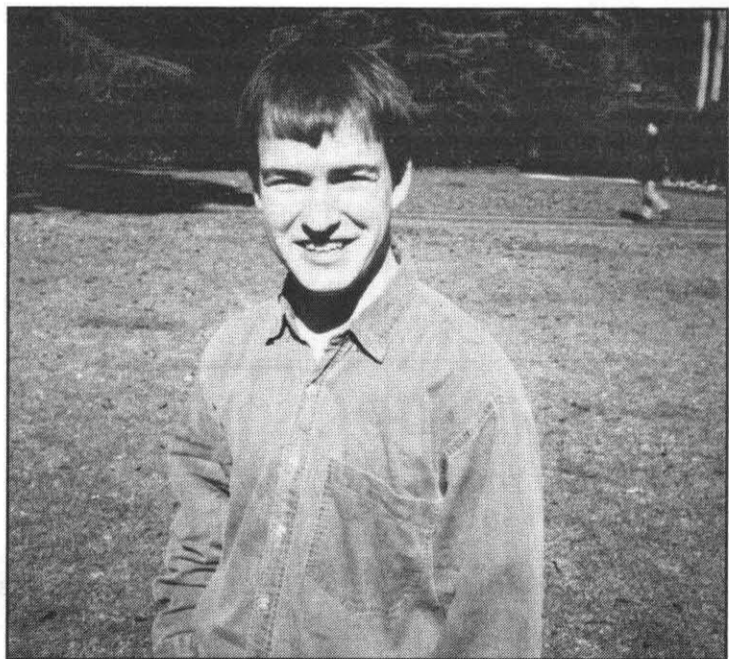


PHOTO BY RYAN COX

Sebastian Maurer, winner of the coveted SURF speaking award

properties on Schiff-Base complexes.

The judges had a particularly difficult time this year choosing winners. They deliberated for fifteen more minutes than originally scheduled in order to come to a consensus. Afterwards, Steve Frautschi, a judge, remarked how hard it was to compare different speakers. As an example, he cited the difficulty in comparing Fay Peng's ability to explain her research, overcoming the language barriers of organic chemistry, versus Sebastian Maurer's ability to explain the complex physics of superconductivity in

simple terms. Bill Whitney, who has been a judge every year since the first Perpall competition, remarked on the particular quality of the speakers this year, making the process of choosing winners especially difficult.

The Doris S. Perpall awards were created by Robert Perpall, a member of the SURF board, in memory of his late wife. The awards were started in 1993 as an incentive for students to prepare excellent presentations. The first place winner will receive \$500; the second \$300; and the third \$200.

CONTINUED ON PAGE 11

Oliver Stone to visit

BY PUBLIC EVENTS

Director Oliver Stone will give the 1996-97 James Michelin Lecture, entitled "Film, Chaos, and Mass Delusion."

Born in New York City in 1946 of a French mother and American father, Oliver Stone dropped out of college in 1965 to teach in Vietnam and returned in 1967-68 as a soldier on the front line. He completed his studies at New York University Film School in 1971 and worked at several jobs around New York until the success of his screenplay "Midnight Express" in 1978.

Among his many film credits are "Platoon," "Born on the 4th of July," "JFK," "The Doors," "Natural Born Killers,"

and "Nixon." He has been nominated for an Oscar six times, and has won twice. He also has an Emmy to his credit from the HBO movie "Indictment: The McMartin Trial."

For a more complete filmography, point your Web browser at our event page: <http://www.cco.caltech.edu/~opel/fy97/se.970128.html>

The James Michelin Distinguished Visitor's Program has been established under a gift from Miss Bonnie Cashin to foster a creative interaction between the arts and the sciences.

OLIVER STONE: "FILM, CHAOS, AND MASS DELUSION" Tuesday, January 28, 1997 at 8 p.m. Beckman Auditorium Free (Tickets are not required)

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MindStalk

by D. R. Sullivan

On Political Labels

I apparently have been dubbed a neoliberal and a conservative. Actually, that might not be so contradictory; I suspect neoliberal means conservative, although I haven't been paying too much attention to the most recent mutation of labels. Still, when I said that the lowering of trade barriers is always called liberalization, I should have said that it could always have been called that. Adam Smith was firmly part of that liberal tradition known as the European Enlightenment, and he was not the first opponent of mercantilist and protectionist policies.

For my own positions, I aesthetically prefer the term 'liberal'. But since to obtain any accurate meaning I must attach the prefix "eighteenth-century" to it, I am forced to use 'liber-

tarian', itself stolen from the anarchist opponents of property who followed Proudhon, Kropotkin, and Bakunin. And the libertarian position is hardly close to most conservative positions, as may be noted by our calls for the legalization of drugs (although conservative William F. Buckley agrees here) and prostitution; absolute freedom of speech, trade, and movement; zero tolerance of pollution; and a smaller military, given that the United States is surrounded by Canada, Mexico, and two very large natural moats. Doubt as to the legitimacy of corporations is also not inconsistent with libertarianism, although not widespread.

On the other hand, I freely admit no more attachment to the labels 'progressive' or 'populist' than to 'conservative'. I do not think that 'progressive' need be synonymous with 'liberal' — in

fact, given the way I use the latter term, it often will not be.

On Free Labor Markets

Byron Philhour quotes me: "Opening our markets ... makes us all wealthy global citizens" and takes me to task. My interpretation is that he assumed my "us all" referred to everyone in the world; for the purposes of the article it referred to Americans.

Opening our markets allows us to be directly compared to the rest of the world and shows how well off most of us are. Given that most of us live through labor for others, and not by directly manipulating owned physical wealth, obviously we will find ourselves competing with equivalently skilled foreigners with lower standards of living, and thus be worse off.

I fail to see how this is, in itself, exploiting the foreigners, as Cherish Brown claims. If someone is working for dirt cheap wages, presumably they feel the alternatives are worse: either being shot, or starving. If the company is holding a gun to their head, this is slavery. If their government is holding a gun to

their head, this is still slavery, but the problem lies more with their government than with the company, whose dubiousness is more in the area of ethics than morality. If they are working as an alternative to starving, the problem does not lie with the company; the problem lies with their not having any wealth or natively available jobs. Barring the company from operating internationally will simply deprive those workers of a job.

If someone takes a cheap job because he is starving, the problem lies not in that someone is offering them a cheap job, but in that they are starving. I recognize that sometimes one can link a multinational to both the job and the poverty, but often the latter has quite independent causes, such as in the entire Second World.

On Drugs

Robert Rossi grants that marijuana is no worse than alcohol or tobacco, but says it is no better, and that we should wean ourselves of those that are legal now. But given that people *do* use them, what should be their legal status?

If marijuana should be kept illegal, then alcohol and tobacco should be made so. Yet alcohol prohibition has not worked, is not working in India right now (some poor state is trying it), and probably would not work again — just as prohibition of the other drugs is not working. And the damage caused by the effort is worse than that caused by the drugs. Better that the drugs be legal, and that the advocates of temperance try to educate and convince people themselves that drugs should be left alone. And to improve conditions so that fewer people feel the need to abuse drugs — but I think that

ending the attempts at prohibition would be a simpler way of cutting the violent crime rate. Not that I can see any authority for the Federal government to ban any drug, anyway, especially as a constitutional amendment was needed for alcohol. One might have thought that would have established a precedent.

One might also think that the availability of drugs in federal prisons might tell us something about the feasibility of keeping them out of a very large country.

On Band-aids

I fear Cherish Brown took my shameless attention grabbing too seriously. The second part of my previous article did not deal with domestic abuse because it was not meant to. I constructed a caricature, hoping to force people to see a superiority of marijuana use to alcohol use in that situation, and then tried to present and destroy various public and private health arguments for marijuana being illegal, the entire exercise having been inspired by various politicians shrieking over Proposition 215. The title — "How to Stop Domestic Abuse" — was tongue-in-cheek; stoning all abusive people is not close to being an ideal solution — although I do think it would be an improvement.

CONTINUED ON NEXT PAGE



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Governor Wilson goes overboard

BY CHERISH BROWN

A few months back, I wrote a fictional story about a couple who wanted to have children. The story discussed the interviews, background checks, medical tests, psychological analyses and other hoops that the state required them to jump through before they were allowed to have children.

The story was inspired by a job application from Crown Books, where they asked questions like "When was the last time you used drugs?" or "stole something?" They even check your credit history!

Translation: If you've hit bad times and have had money problems, you are too untrustworthy to get a job. It made me think about the call to get people back to work and get off welfare. But it was just a fictional story, right?

Last Friday, however, I became physically ill when I picked up the LA Times. My story, it seems, was far more realistic than I thought.

Governor Pete Wilson, Mr. "Family Values" himself, is urging county welfare offices to push adoption on welfare recipients. This is the same man who is trying to make it impossible for single parents, unmarried couples and gay and lesbian couples to adopt.

I know now that Wilson has no family values and certainly does not have the best interests of our state's children in mind. Worse yet, the only people he really cares about are married, finan-

The only people he really cares about are married, financially stable, white folks.



cially stable, white folks. Why is this man governor? He's just a lobbyist for the rich!

Rather than shifting funding to adoption propaganda, why aren't we trying to support families that are already in existence? We should be offering parenting classes, counseling, and medical assistance rather than taking loved ones away from people who are already dealing with virtually insurmountable problems without support.

Next he'll be saying that those who have received counseling or medical treatment for "psychological" problems, i.e. mentally ill, shouldn't have kids. In all honesty, I hope they are the next target, since 1 in 10 people have suffered from clinical depression alone. It would cause quite an uproar if ten to twenty percent of the population had to give up their kids.

There are two problems I have with Wilson's new adoption policy. First, and most serious, is that we are making excuses not to do the right thing. Rather than making sure our society is supporting families, we'll just take the kids, put them in new homes, and let the parents rot. If they have more kids, we'll take them, too! Funny that helping the parents is never considered as an option.

This specifically targets low-income families. Wilson is quoted in the Times as saying, "I have said repeatedly that if you are a woman of any age and any income level and are not mature enough, financially stable enough or otherwise did not have the capacity to provide a loving, stable and secure environment for the child, then you should consider alternatives like adoption."

Can Wilson honestly say that a per-

son may be of "any income level" and still be "financially stable"? Come on, Pete. You're giving lip service to real values. And just because a person is single, gay, lesbian, or poor doesn't mean that person is less capable of loving their children like any other member of society.

The second problem with this policy is its blatant subjectiveness. Currently, our social services system uses its resources to take children out of loving homes because of the parents' sexual orientation while it scrambles for money to move children out of abusive homes. Since when is homosexuality a greater threat to children than physical violence? (Actually, since when is homosexuality a threat to children or anyone else?)

Our society is following a disturbing trend. People's worth is determined by their income level, and the lower your income, the more you are judged to be a societal burden. Our century will probably be viewed with great disgust because we failed to give compassion and care to those who truly need it. Instead, we punish and persecute the ignorant while the real butchers, those who allow innocents and children to starve and be beaten, are applauded because of their strength and moral compass.

On a personal note, I'd like to end by saying that would never give my child up for adoption, regardless of the circumstances. I'm not being selfish; I

And just because a person is single, gay, lesbian, or poor doesn't mean that person is less capable of loving their children like any other member of society.

just believe that, in my case, I'd be showing my child how trivial I believe my responsibilities are to him. I think that he would learn how to be a good human being (and someday, a good parent) by seeing his parents struggle with life's obstacles. He would see how people who really care may give up material possessions, but would never give up the love they share.

Power and Morals

BY NEIL STEVENS

President Gingrich? Well, not quite. He is close, though, too close. For many Americans, second in line is too close for Georgia's sixth district U.S. Representative, and they're right. Gingrich is not the kind of man we need as President. He is surrounded by too many accusations and wrongdoing to be the First Citizen, but he is just what we need as our Speaker of the House. As a former Whip, Gingrich knows how to wield influence in the Congress. As a conservative Republican, he can provide a balance in the government by opposing President Clinton. Controversy breeds ingenuity, and Washington is where we need ingenuity.



The Democrats in the House, attempting to regain the favor of the voters, will use the next two years to work on the polls, and the nations problems at the same time. Gingrich and the Republicans will have to work harder to retain their advantage. Gingrich's ethical problems will only force him to try harder to please the people, whether he strives for the balanced budget or a repaired Medicare system. Gingrich will be the catalyst for a storm of proposals for the next Congress, and it will result in a better government. Republicans may control the house but they want to reclaim the Lincoln Bedroom, and the rest of the White House. In the name of the party, Gingrich, along with the Senate leadership, will put forth bill after bill, making a show of sending their "mandate" to President Clinton.

Well, the President may not be eligible for re-election, but his Vice Presi-

SEE GINGRICH ON PAGE 6

MINDSTALK: Education and more

CONTINUED FROM PREVIOUS PAGE

As for the reference in my caricature to an "unfortunate moral education", the list of societal factors Mrs. Brown listed is a large part of what I thought such an education generally consists of. Her family and mass media culture — and yes, economic handicaps, especially with children — have not conditioned the woman in my scene to do something like have a gun handy to shoot him down with, or to slit his throat while he's sleeping, which responses are my first thoughts when I think of being regularly physically attacked by a spouse. Or when I think of physically attacked. If I can call such a reflex a thought.

For example, I don't entirely care if OJ Simpson killed Nicole Brown. If he beat her eight times in their marriage, he should have been dead a long time ago.

It is a shame that IMPACT is gone. I liked that class a lot.

On Feminism

I've read that Betty Friedan's simple formulation of feminism was that "women are people too, and should be treated as such."

I think this is the second best such formulation I've heard. The one I prefer the most is my own: "women are people first." The difference is that the first statement conjures for me an image of a table, at which People sit, at first surrounded by Men, with Women coming as a group and demanding a place. Which may well be what was needed at first, and is needed in most of the rest of the world. But our mothers and grandmothers have gone through that stage for us; I would hope that we can move on, to simply see people sitting at the table, some male, some female, some (later) inhuman. Differences between sentient beings exist, but should not be

barriers, or necessarily permanent.

On Education

People keep saying that parents need to take an interest in the education of their children, and to encourage them to take an interest in science in learning. But it seems to me that this will continue to be an intrinsically difficult task for as long as the parents do not take a strong interest in their own education.

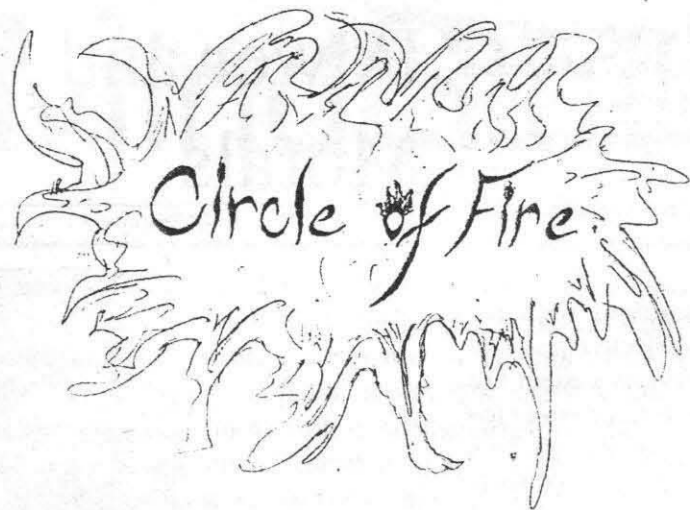
The best way to teach is by example. One will not reliably raise a polymath by telling your child she can watch TV after she has done her homework or finished her summer reading list. One might do so by reading and visiting a library often on one's own, and thus conditioning the child to regard learning and thinking as inherently pleasurable.

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Interviews: January 30, 1997

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BY AUSTIN COLLINS

Hi there, and welcome to the very first Circle of Fire. The very first in a series, as this is the latest addition to the *California Tech's* weekly articles. As the above graphic and motto should indicate, this column will be a forum in which, every week, I flame a subject of my choosing. If you're lucky, and I'm suitably inspired, that subject will even be flamed with style.

This week's topic: **Legislation.**

Excessive legislation, to narrow the scope of the article down just a tad. I'll narrow it even further; I'm **not** talking about those really inane laws that are used by every half wit (on second thought, quarter wit) who thinks it is trendy to bash

on government. For example, in Florida, it is currently illegal for an unmarried woman to skydive on the Sabbath day.

No joke — but I don't care.

What do I care about? The seatbelt law. Does it save lives? Sure, it does. Is it a good idea to fasten your seatbelt? Of course it is. Are legislatures justified in passing such laws? Hell no.

The philosophy behind our system of government, as it pertains to legislation (and the role of government) can be illustrated pretty well in a quote by Benjamin Franklin. He said, "My rights stop at the tip of your nose." Effectively enforcing this barrier at the tip of every citizen's nose is the task of legislation. Legislation, by its very nature, restricts personal liberty. Ideally, it does so only in those cases where another person's

"nose" is endangered.

How does stripping you of your right not to wear a seatbelt protect anyone else's liberty? It doesn't. As such, legislature has no right to implement any law requiring such. But they did, anyway; people cheered. I'd wager good money that the vast majority of those in favor of the seat belt law already buckled up. The law, in the form that they favored, did not restrict their own personal liberty in the least. They already buckled up...in effect they passed the law with the specific purpose of limiting the freedom of another group of people who differed solely in their lack of personal safety.

So, sure, they were less safe than if they buckled up. That ought not matter. The relevant question is were they posing a danger to those that do elect to fasten their seatbelts? The answer, clearly, is no.

One person actually tried to convince me that people who do not wear their seatbelts pose a danger to pedestrians near a car accident. It is possible, he claimed, that a person not strapped to his car seat could be flung through his windshield and strike an innocent passerby. People wandering aimlessly around, spewing nonsense like that pose a far greater danger to

the public than the human projectiles created by car accidents. However, one observes every day the absence of any sort of law requiring people to be even remotely intelligent.

That is not simply a caustic remark; it's an important point. "You can't legislate intelligence," a comedian joked (in reference to the helmet law). This is true; moreover you ought not legislate matters of simple intelligence, unless they pose a danger to others. The astute observer will notice immediately that this makes laws requiring minors to fasten their seatbelt (or laws requiring that children ride in special seats) justifiable. No reason for a child to suffer because their parents don't like seatbelts. We, however, are not children.

A congressman in Texas, I forget precisely who, argued once that the seat belt law was a matter of "simple utilitarianism." Most people accept this, too. "Ooooh, utilitarianism. Greatest good for the greatest number...the seatbelt law clearly fits this criteria." Nope. It doesn't.

J.S. Mill, the effective father of utilitarianism (I don't count Bentham and his profoundly silly *Calculus of Pleasure*), gave a related example in *On Liberty*. He spoke of an

unsafe bridge, and a man attempting to cross it. He concluded, on utilitarian grounds, that people are not justified in forcibly preventing him from crossing the bridge. They are allowed to vigorously attempt to persuade him that the bridge is dangerous, and he ought not cross it. In fact, they're obligated to do everything in their power to convince him he should not cross the bridge. In the end, though, if he's stupid enough to try it he has that right.

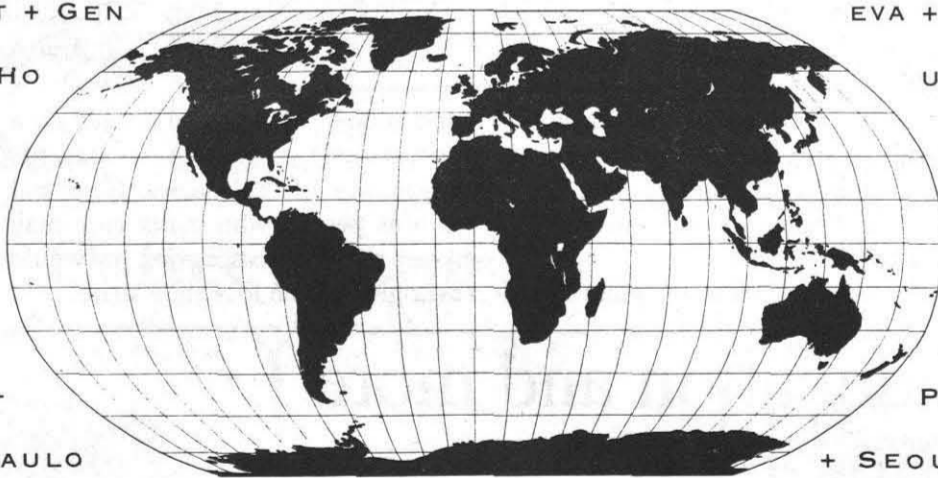
The seat belt law is but a single example, but an illustrative one.

Buckling your seat belt is a good idea. Requiring that people do it saves lives. However, this sort of legislative practice can be quite insidious. There are hundreds of similarly motivated laws on the books. It is one reason legislatures have become so slow, and out of touch. In attempting to cure every ill via legislation, they make the process of legislating more important issues more difficult.

In the same line of thought, one can argue that it starts you down the 'slippery slope', and sets a dangerous precedent for legislation. I prefer, however, to phrase it this way: For all its good intentions, the seat belt law is one class of society ef-

SEE CIRCLE ON PAGE 9

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The Outside World

by Myfanwy Callahan

BELGRADE—
The Serbian Government announced its willingness to honor opposition victories in the capital and Serbia's 2nd largest city. Daily protests over the last two months continue and may stop only when the government gives up the capital.

JERUSALEM—
Prime Minister Benjamin Netanyahu and Palestinian leader Yasir Arafat finally agreed on a partial Israeli withdrawal from Hebron. Late Tuesday night they reached agreement on Hebron and signed an associated document describing further steps towards peace.

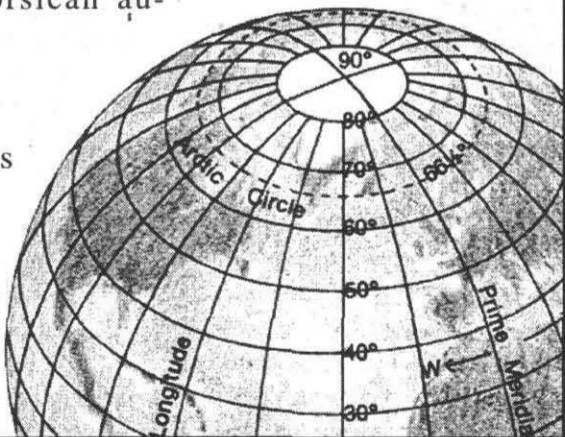
PARIS—
Separatist movements in Corsica met with severe consequences from the French government. Three top leaders and others from the movement are now in jail. Prime Minister Juppe hopes this will bring an end to 20 years of sporadic violence for the sake of Corsican autonomy.

ZURICH—
Only weeks after the Swiss Government ordered banks to preserve

records of any dealings with Nazi Germany, a security officer discovered the destruction of WWII documents at the Union Bank of Switzerland. Investigators have been trying to trace Jewish assets deposited in Swiss accounts during the war.

SAN FRANCISCO—
A group of doctors and patients sued senior officials of the Clinton administration in order to protect the medical use of marijuana in California. The suit maintains that the administration's plans to take away prescription licenses from doctors who prescribe the drug is a violation of the First Amendment.

TORONTO—
Astronomers say they have detected stars that belong to no galaxy using the Hubble Space Telescope. They have detected as many as 600 such stars located more than 300,000 light years from the nearest galaxy.



Attention Seniors Attention Seniors

Each senior will be allocated $\frac{1}{4}$ of a page — this means a portrait-orientated rectangle of dimensions 4" x 5 $\frac{1}{2}$ ". What you put in your rectangle is entirely up to your own discretion. We do, however, require to have the following information included somewhere in your rectangle: *Your Name; Your Major; Your House Affiliation; Your Home Town.* You may combine your allocated space with other seniors and hand in a group picture (ie. two people can use half a page; four people can use a full page). *The 1997 Big T will be entirely desktop published — this means that if you want your senior picture to be formatted in Photoshop, Live Picture, Painter, Illustrator and/or PageMaker, we will do any formatting for you — just provide us with the photographs and instructions.* If you would like your photograph to be taken by the Big T, your house historian will be able to provide that service. Please label all of the items that you submit — if you would like any of your submitted pictures returned, please state so. Please send your pictures to the following address before Friday 14 February 1997:

The Big T — Senior Pictures
SAC Room 27-58, Caltech

Thank you — THE 1997 BIG T EDITORS & STAFF

The facts about depression

An information and screening program

BY THE COUNSELING CENTER

It is a long-standing myth that if you are strong-minded you will not become depressed, but depression is a true psychological and medical disorder. The distinction between depression as a clinical syndrome and depression as a mildly altered mood state, such as sadness or unhappiness, can be confusing. Sadness and unhappiness are normal and universal phenomena. Depression as a clinical syndrome is something quite different.

According to the National Institute of Mental Health, depression affects over 15 million Americans each year. The lifetime expectancy for developing depression is 20 percent in women and 10 percent in men. Less than half of the people suffering from depression seek treatment for it, mainly because it is difficult to distinguish depression from the normal feelings of unhappiness, and because of the perception that strong willed or intelligent people should be immune from depression or should be able to handle it themselves. Whatever the reasons, those who do not seek treatment suffer unnecessarily and increase their likeli-

hood of experiencing other episodes of depression in the future. In addition 10 to 15 percent of people who suffer from depression do commit suicide. These facts are all the more tragic because clinical depression is a treatable disorder with 80 -90 percent of people experiencing improvement with treatment.

Knowing the signs of depression and getting help are two key factors in overcoming depression. Listed below are the most common symptoms of depression: #183# Feeling sad or empty most of the day; occurring nearly every day. #183# Inability to enjoy activities, persistent apathy or lack of motivation. #183# Sleep disturbances, either too much or too little. #183# Significant changes in appetite or weight, an increase or decrease. #183# Fatigue or loss of energy. #183# Feelings of worthlessness or inappropriate guilt. #183# Trouble in concentrating; problems with making decisions. #183# Recurrent thoughts of death. #183# Irritable moods. #183# Poor school performance.

If you feel that any of these symptoms apply to you, or you would just like to get a "check up" on your level of depression and learn more about it, we in-

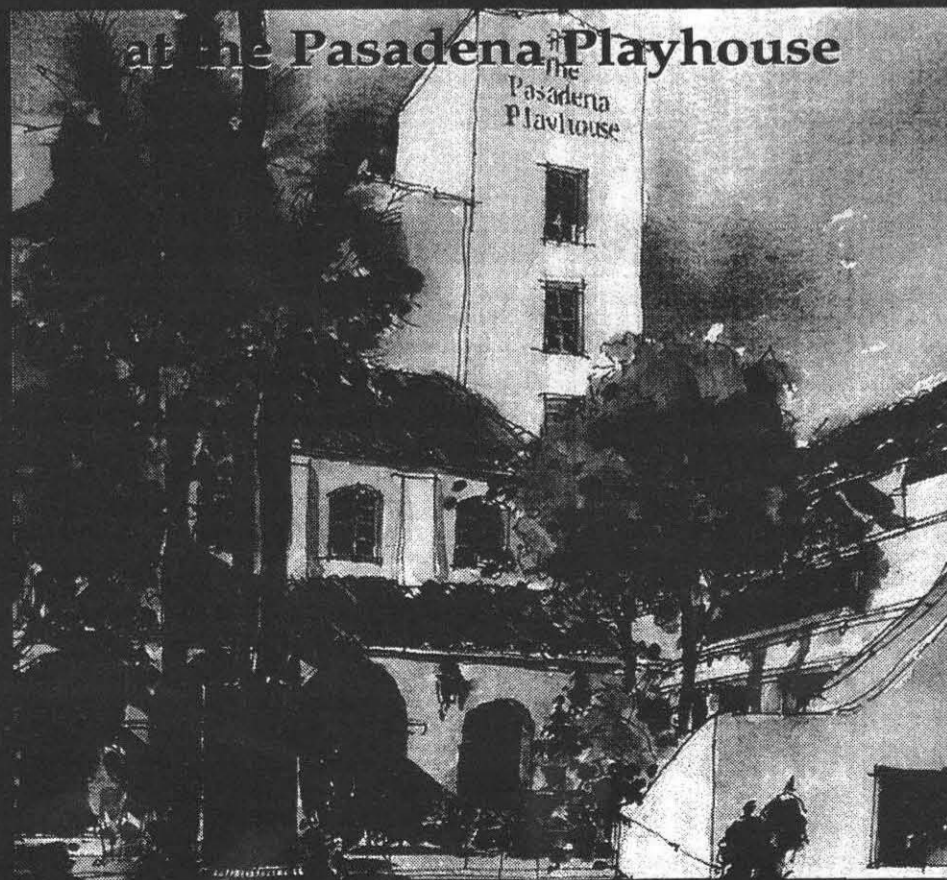
vite you to attend The Depression Screening Day put on by the Counseling Center, as part of Wellness Week.

This program will be held Tuesday, January 21st, in Club Room 1 at Winnett, beginning at 12:00, and is open to all Caltech students. A short lecture on facts about depression will be presented, and you will have the opportunity (not required) to take a depression screening test. After this, you will have the option to meet for a short time with a member of the Counseling Center staff who will go over your inventory results with you and suggest further steps you may take. Students are welcome to attend the lecture without taking the inventory, and you may also take the inventory without meeting with a staff member.

Certainly the stresses of academic life make one vulnerable to depression. Why not take this opportunity to see how you're doing, or to find out more about the concerns of a loved one dealing with depression? For more information about the program, please call Virginia at the Counseling Center, ext. 8331, or email us at virginia_licon@starbase1.

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n o w hear this.

The Why Store

BY RON DOLLETE

After releasing two independent albums and endless touring in the Midwest, The Why Store showcases their incredible talent nationwide on their self-titled, debut release on Way Cool Music. Actually, this is way cool music. They've got a really nice, catchy tune to their music, very down to earth and palpable like the sounds of Toad the Wet Sprocket or Counting Crows.

The CD is a great collection of 13 songs from this Indiana band. The first impression one receives is that the band is not the typical alterna-

tive band which keeps popping up these days. Their sound is very rich and Christopher Shaffer, the lead vocalist, displays a very moody and melancholy attitude in his songs, ranging from retrospective songs like "Father" and "When I'm With You" to more cynical songs such as "Lies" and "Fool's Bargain." Warning, though, "Nobody" and "Lies" tend to be really repetitive and while that's not a real problem, Shaffer's voice is a mix between that Eddie Vedder and that one dude from Queensryche. And when Shaffer sings these songs, it just gets really annoying because of his voice. Okay, so there's one fault with the album. (It's just a sign that too

much Eddie Vedder is a bad thing.)

Another song that appears on the album is "Lack of Water," which is placed at track 27. I don't know why. But anyway, it was initially released on their second album and it really attracted people at their new label, so it's been slightly fixed up and re-released on this new album. "Lack of Water" has the same hippe-roots-rock sound as Dire Straits and other rock mainstays. (In fact, the introductory riff on "Lack of Water" sounds very similar to "Sultans of Swing.")

The Why Store is a very original and talented band and this new self-titled unquestionably shows them to be a group that isn't just another modern rock clone. "We've always stuck to our guns," Shaffer says. "We all have friends in other bands who'll see that Green Day is hot, write a song similar to theirs, and shop it around. With us, it's not a matter of sounding or looking like whatever's in style at the moment. We've always felt that we'd make it just by doing what we do best."



Photo Credit: Marina Chavez

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Ernest Explains

BY ERNEST TOMLINSON

Dear Ernest,

What are the real contents of Tommy's Chili? I ran some through the new \$80,000 HP gas chromatograph in the Ch 4 lab, and now it's an \$80,000 paperweight with a cool screensaver. (They told me I passed and I need not come back....)

—Intestinally challenged

Dear Concerned,

Tommy's restaurant propaganda would have you believe it was founded in 1946 by Tommy Koufax, supposedly the man in the big white suit smiling on the Tommy's restaurant card (the player's club it ain't). However, when I contacted Robert Stack of Unsolved Mysteries, he sent me the following information:

While the "Tommy's" restaurant was indeed founded in 1946, it was not established by Koufax but in fact by Dr. Otto Von Schnitzel, an ex-Nazi scientist imported to the American military following WWII who specialized in nuclear physics. Originally a classified military project, the name Tommy's was in fact a bastardization of "Atomies," a favorite expression of Schnitzel: "Vell, ve're going to split some atomies today..." Von Schnitzel soon proved too unstable and was dismissed.

Rumors persisted of secret experiments conducted under the cover of the newly formed "restaurant," particularly after the FDA agent responsible for approving the chili for human consumption disappeared while on an inspection tour, along with the only known list of chili ingredients. A partial list was discovered in 1971 by private investigator Dan Chase, but was dismissed as an obvious fake because it listed ground beef and beans. The true list will probably always be as much a mystery as the origin of the Tommy's Corporation-Ukraine Nuclear Authority annual picnic.

Dear Ernest,

Where on earth have you been?

—Missing you dearly

Dear Needs A Life,

Actually, it was a far, far better place that I have been to than I have ever been before. While there, I did a far, far better thing than I had ever done before, and I had a far, far better rest than I have ever known.

Dear Ernest,

I'm having trouble getting Linux to recognize my sound card even though I've recompiled the kernel five hundred times. I've checked the root level makefile to make sure all the right modules are linked in, and read through the entire million line kernel core dump just to see if I could figure out what was wrong—looking at it in binary, though, I did find pictures of Bill Gates, the Mandelbrot set, and evidence that completely rules out the single bullet theory. I'm trying to run a Disney sound source with Microsoft Linux, v. 3423. I'm at the end of my file, what do you suggest?

—Compu-stud

Dear Kevin,

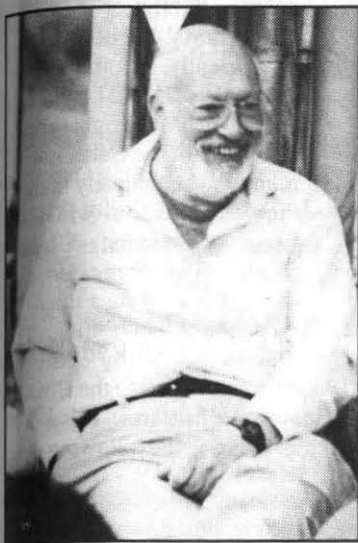
First, you should tear out the sound card, put it in a small paper bag, and microwave on high for 5 minutes. Then, throw out the PC and buy a real computer, an SGI O2. Your problems should be solved.

GINGRICH: President?

CONTINUED FROM PAGE 3

dent is ready to run, and the Clinton Administration will reflect on Candidate Gore's campaign. Thus, he will be forced, in the name of his party, to sign those bills that the people want, and propose others to pass over the agenda of Congress. Nowhere will this battle be more evident than in writing the fed-

eral budget. Whether he's right or wrong, innocent or a liar, Newt Gingrich's retention of the gavel will have a positive effect on America. He is a divisive figure, and the ensuing debates will bring out the best in our elected officials. If everyone cooperates, the 105th Congress will be peaceful and productive (for a change).



Dean's Corner

A sticky wicked

by Jean-Paul Revel

A few days before Christmas I saw a car passing in the street, a woman at the wheel, a Caltech parking decal on the left side of the bumper and the following sticker on the right: "So many Boys, so few Gentlemen". I could not recognize the person at the wheel. I felt sad, I must say, that someone had to express herself to the world in this way. I mean expressing discouragement so openly, so brazenly, about nearly half of the human race. What was wrong with boys? What was so bad that the whole world had to be warned lest someone be unwittingly exposed to their failings?

Then it came to me that she might have meant not Boys in general but Caltech students in particular. That cut even closer to home. At least the Caltech decal was small and that was a relief. Maybe no one would notice the sticker on the left and wonder whether it had anything to do with the sticker on the right.

Of course, maybe I was overreacting. "Boys" does not have to be pejorative. It

was a sticker not "Little Boys", it was Boys. Could the sticker have referred to a positive use of the word, such as our Boys in uniform, who, heroically serving the country, were perhaps not gentle and sweet, but appropriately tough? It is true that since the Crusades, when chivalrous knights slaughtered heretics left and right, war has often been claimed to be conducted in gentlemanly fashion, gentlemanly being defined as "what we do is correct, obviously deserved by the enemy". It is hard to conceive of anyone in the soldierly state as gentleman in spite of chivalry and respect for the rules of war. The sticker might have been inspired by such a train of thought, but somehow I did not think so. Boys, in the context of the bumper sticker, most likely meant inconsiderate brats, with no savoir faire and the brats were Caltech students. So, in fact, it was a very good thing that parking stickers as they are affixed to many bumpers are seen from a very oblique angle and can't be read, hopefully not even recognized, except by someone within the family.

But why was it that I took this comment as derogatory, rather than matter of fact? Was it not true after all, that many

of us men manage to upset our spouses, girlfriends, acquaintances of the other sex or significant others at one time or other, being ungentlemanly with the best of intentions, no harm meant? Besides, men do not have the monopoly for causing such problems. A better statement would have said that people have problems with other people, although the problems can easily be multiplied by sexuality, a fact we may want to deny, but is hard to disregard. So maybe the sticker was just a matter-of-fact statement, or maybe reflected a recent unpleasant personal experience.

I considered the possibility that the sticker was just meant to be humorous. It would have been great if I could really have believed that. Or if I could just have convinced myself that just the fact that it was a woman driving the sticker bearing car, did not mean she had a visceral negative reaction to boys. The car might have been borrowed, even stolen. The driver could have been a long haired man. Would I have reacted the same way if it had been a man at the wheel?

All of these ruminations were not getting me very far and I still wondered in what ways the unknown driver, I'll show my bias and say female driver, had become so disappointed. Was she a student who had been floated at dinner time? Had she been offended by the sartorial or sanitary customs of (some) students? Had she become disillusioned because she was not treated as an equal? Was she upset because she felt that she was not appreciated for her brains, but for her sex?

Was it that she had discovered that Albert Einstein, yes the Albert we see whizzing around on his bicycle, making a rakish turn in the famous poster, her idol, Albert of the Atheneum suite, so sharp where understanding the Universe was concerned, that very Albert, was actually not always so bright where his personal life was concerned. And he is not the only famous scientist (or poet, politician, podiatrist, pop-singer, pizza parlor operator, pauper or paparazzo or just plain poysson...) with problems of the kind. True even of lesser men than Albert, mere boys. And that realization could make anyone a bit upset. And so, even though I don't know who the driver was who was so low on boys, I somehow felt like doing something which would lift her spirit.

I would like to reassure her that Boys is a stage on the way to becoming Gentlemen. Just as Girls is a stage on the way to become Ladies. I hope. It happens more slowly for some than for others. The rate is not constant nor is the direction of progress. There can in fact be attacks of Boyness in people, who have already reached the perfect Gentleman or Lady state, most of the time. But as long as they persevere, dare to do better, dare to try to understand the others, there is hope.

With fond hopes for all to progress in the new year.

A bientôt.

J.P. Revel

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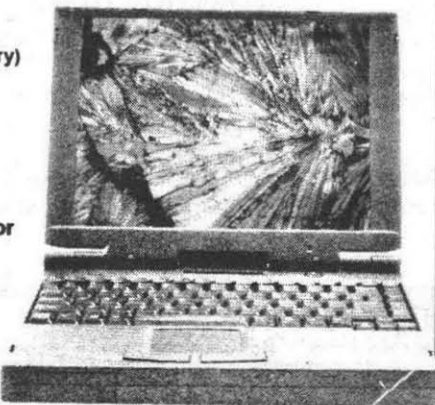
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ADAM VILLANI: MEDIA GUY

BY ADAM VILLANI

Evita

Evita is solid, spectacular entertainment if you can only withstand the onslaught of Andrew Lloyd Webber's bombastic score. Madonna (*Body of Evidence*, *Shanghai Surprise*) is perfectly cast as Eva Peron, the Argentine First Lady who rose from an illegitimate birth, working as an actress, to become the most powerful and popular woman in the country. The entire motion picture is sung (quite competently); hardly a word is spoken. The most effective storytelling device of the film is the use of Antonio Banderas as a sort of one-man Greek chorus, appearing in various working-class guises to narrate and sharply criticize *Evita* and the Peron regime. The costume budget for this movie must have been huge: in addition to the proverbial cast of thousands, Madonna herself has 85 costume changes, each more glamorous than the one before.

But the film's *raison d'être*, its music, is also its worst aspect (*weakest* is not the appropriate term here). Lloyd Webber is an unabashed maximalist, alternating between orchestral drivel that makes John Williams look subtle and rock-style music that sounds like warmed-over Meat Loaf. Tim Rice's lyrics are exercises in awkwardness, pseudo-poetry tenuously bonded to the meter of the music like a Rube Goldberg contraption. *Evita* is a very impressive, entertaining movie, but I'd recommend bringing earplugs.

Hamlet

Kenneth Branagh's full-text *Hamlet* is a monumental achievement, establishing such a standard for Shakespeare's most popular play that it's unlikely anyone will attempt a straight filmed version for decades to come. Branagh's (*Henry V*, *Much Ado About Nothing*) interpretation here is not strikingly original by any measure, but he maintains a consistently high level of production,

direction, and acting from all of his players throughout the entire four-hour (plus intermission) film.

The only real conceit of the movie is that the setting has been moved forward a few hundred years to what appears to be the 1870s. While an argument could be made that he was making some sort of comment on the *realpolitik* of the time, I think Ken just wanted fancier sets and costumes. Branagh's influence is so great that famous and well-respected actors seem to be falling over themselves to appear in his movie; Richard Attenborough has one line, and John Gielgud shows up but doesn't even have a speaking part. Patrick Doyle's musical score is also occasionally intrusive. Taken as a whole, though, *Hamlet* is drama at its best, commanding your attention yet very accessible. Weekend shows are still selling out early at Laemmle's Royal Theatre in West LA, where it's being presented in extra-sharp 70mm format.

FM 101.9 and 1260 AM

The word on the street is that FM 101.9, the "adult album alternative" station will be changing to an all-Spanish format within a month. I have no great love for this station, but I did like to tune in at times, because they're the only commercial station in LA that would regularly play album tracks, forgotten hits, or new stuff by artists that lie below the top-40 line. On the other hand, the management, DJs, and fans of FM 101.9 tended to be self-important baby-boomers who thought their station was the only place for "intelligent" listeners and that the musical world revolved around "singer-songwriters." These guys took themselves way too seriously; their souls were indeed devoid o' funk.

On a related note, "K-NEWS" AM 1260 has made the bizarre turn of switching to an all-Beatles format. That's right, all Fab Four, all the time. They started also playing solo stuff by the members

SEE MEDIA ON PAGE 11



Minutes from the Board of Control Business Meeting

Dec. 2, 1996

On December 2 the Board of Control held the first in a series of open business meetings to discuss procedural concerns. The following is a brief summary of the points discussed at the last meeting and an outline of what will be covered at the next meeting on Thursday, January 23.

The BoC recently published a report in the *Tech* that contained a fictitious abstract with some commentary and attendance statistics from the first 2 terms of the 1996-97 Board. Some discussion centered around whether the BoC should be required to publish reports similar to this periodically and what these reports should contain. There was a general consensus that a report at least once a year would be a good idea. The reports should contain general statistics, such as those found in the Honor System Handbook (number of cases dismissed by the Chair and the Secretary, number of cases heard by the full Board, number of those leading to a conviction and upheld by the Dean, etc.) There was some question as to how often to publish such reports, either two or three times a year being the most popular choices. There was also some discussion about the type of statistical information that would be released in these reports. The general consensus was that it was not a good idea to release statistics such as the number of convictions leading to a recommendation for leave or expulsion for reasons of confidentiality, and that releasing the information now given on a yearly basis in the Honor System handbooks would be more than adequate. A bylaw to require the BoC to release these reports in the *Tech* seems to be a good idea and will be discussed in more concrete terms at the next meeting.

Recall of House BoC Reps

Kohl brought up the issue of recall of House BoC Reps and the possible problem of House Reps being called back to serve on the BoC after their term of office is over. Once a student is elected or appointed to the BoC (in the case of Representatives at Large), he is then eligible to hear a case on the Board even after his official term has ended, contingent on the approval of the current voting members of the Board. There is a concern that houses are electing a BoC Rep for one year and no longer. Impeachment of current house representatives is the responsibility of each house. The problem then arises that a house does not necessarily know if their BoC Rep is doing a good job. Dean Revel said that the BoC Chair and Secretary should be responsible for approaching the president of a house with a BoC Rep that is not doing their job. At that point it becomes the responsibility of the house to decide whether the student should be representing

them on the BoC.
Defendants' Rights

Currently, according to the current BoC/ASCIT Bylaws, a defendant has the right to bring a member of the Caltech community to accompany them in the waiting room while the Board deliberates. A bylaw change was suggested that

would allow the defendant to bring a silent observer with them into the actual hearing. The bylaw change was supported by everyone present and was recommended to the BoD by the Board of Control late last term. This would change the current bylaw in the following way:

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 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. 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 will be bound by secrecy as set forth in subsection (s) for all witnesses.

The ASCIT BoD voted last term to bring this bylaw change to the student body for a vote. This will be on the ballot in the general ASCIT election near the end of this term.

Non-Participating Observer

The notion of having a non-participating observer who is not affiliated with the BoC or chosen by the defendant present at Board of Control hearings was also discussed. This person would witness all parts of the preliminary investigation conducted by the BoC Chair and Secretary and all parts of a hearing not involving the Board's deliberation. The presence of a non-partial observer might be beneficial to both the defendant and the BoC by acting as a check on the Board. However, the logistics of implementing this idea are complicated, and some people felt that the benefits of the non-participating observer were not enough to justify adding this position. There was no consensus reached about adding this position to the investigation process, and discussion was tabled until the next meeting.

The next open business meeting will be at 8 p.m. on Thursday, January 23.

FREE FOOD! Issues to be discussed include the philosophy of nullification, unanimous decisions by the BoC, the possibility of adding a non-participating observer position, and a bylaw proposal to require the BoC to publish a semi-annual report. **FREE FOOD!** For a more detailed agenda, contact your friendly local BoC Rep. **FREE FOOD!** If you have any questions or comments, feel free to contact any BoC Rep or the BoC Chair (Maria Satterwhite, x6200. mariafs@cco) or Secretary (Matt Tiscareno, x6236. tisco@ugcs).

Maria Satterwhite



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Wellness Week Calendar

BY VILIA ZMUIDZINAS

Wellness Week is an annual event at Caltech, devoted to the promotion of health and wellness. All events are free of charge and are open to Caltech students, staff, and faculty.

TUESDAY, JANUARY 21

• Back to School

Learn how to reduce back strain at the computer or desk through ergonomics and better posture.

Presented by: Denise Gabaldron
Location: Braun Athletic Center Classroom
Time: noon - 1 p.m.

Refreshments will be provided.

• Depression Screening Day

Informative lecture on the causes and treatment of depression and an opportunity to be screened to find out if you are depressed.

Presented by: Aimee Ellicott and Jon Pedersen
Location: Winnett Club Room One
Time: noon - 1 p.m.

Refreshments will be provided.

• Starpower

An interactive, intense, and fun trading game that raises participants' awareness of socioeconomic differ-

ences.

Presented by: Parandeh Kia, Liz Shon & Aimee Ellicott.

Location: Avery House Library.
Time: 6 - 9 p.m.

Dinner will be provided.

WEDNESDAY, JANUARY 22

• Traditional Oriental Medicine

Presented by: Emperor's College of Traditional Oriental Medicine.

Location: Winnett Lounge
Time: noon - 1 p.m.

Refreshments will be provided.

• Research Update On Alzheimer's

Presented by: Caltech Staff & Faculty Consultation Center

Location: Winnett Club Room One
Time: noon - 1 p.m.

Refreshments will be provided.

THURSDAY, JANUARY 23,

• Noontime Stress Buster Concert

Presented by: Delores Bing & Caltech Students
Location: Dabney Lounge
Time: noon - 1 p.m.

Lunch will be provided to the first 100 people.

FRIDAY, JANUARY 24

• Health Fair & Blood Drive

Enjoy health related samples and resources and participate in the Red Cross Blood Drive.

Health Fair

Location: Winnett Quad
Time: 11 a.m. - 2 p.m.

Blood Drive

Location: Winnett Lounge
Time: 10:15 a.m. - 3:30 p.m.

Contact Vilia Zmuidzinas at hrdvez@hr.caltech.edu for an appointment.

SATURDAY, JANUARY 25

• Family Day

Parents and their children, from newborn to age 8, will enjoy Twinkles the Clown, face-painting, and various other activities.

Location: Winnett Lounge and Club Room One
Time: 3 - 5 p.m.

Refreshments will be provided.

• Caltech Jazz Band Concert

Presented by: Bill Bing and Caltech Students
Location: Beckman Auditorium
Time: 8 - 10 p.m.

• Senseless Death Comedy Night

Location: Winnett Lounge
Time: 9 - 11 p.m.

Refreshments will be provided.

CIRCLE

CONTINUED FROM PAGE 4

fectively forcing another class of society to act differently. This, on many occasions, is perfectly justifiable. Here, however, the sole difference between those classes is whether or not they fasten their seat belt.

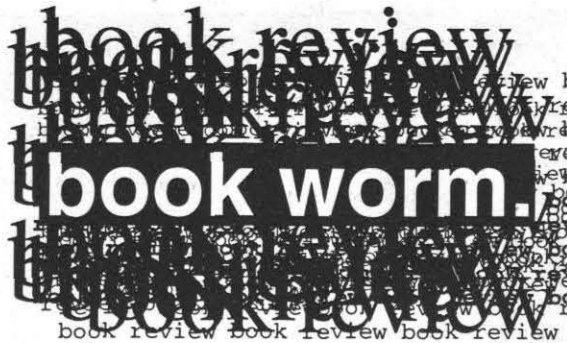
Last, but certainly not least, the seatbelt law flies in the face of the categorical imperative: Would I want to live in a world where everyone acts this way? Are you comfortable with someone else forcing you to comply with what they feel is in your best interests? That is exactly what the seat belt law does. A group of people you have probably never met sat down in a room, and decided that fastening your seat belt was in your best interests. That, in itself is okay. They're probably right. However, they are simply not justified in imposing their judgement upon you unless your behavior poses a threat to others.

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



by Daisy James

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

Sherlock Holmes: The Complete Novels and Stories
by Sir Arthur Conan Doyle

If you are going to read mysteries, this is the place to start. Here are the deductions from cigarette ash, the impossible cases and the "elementary, my dear Watsons" that have become so famous.

While the stories are anything but realistic, Doyle makes the impossible plausible and, despite all of the parodies and criticisms, the stories are actually passably believable. Of course, there is still plenty of suspension of disbelief, but if it was absolute

realism that you wanted you wouldn't be reading this book in the first place. The short stories are fast paced and straightforward. This collection includes Doyle's forays into third person writing and stories told by Holmes himself, but neither style is anywhere near as good as those narrated by Dr. Watson.

The novels vary in quality. *The Hound of the Baskervilles* is, of course, the classic and *A Study in Scarlet* (in which Holmes and Watson make their first appearance) is good mostly as an introduction to the characters. It starts well enough, with Holmes doing what he does best, but there is

a long story-within-the-story which drags on and on and is, of all things, extremely insulting to Mormons. It should also be noted that the narration can be very racist by modern standards, no worse than any contemporary writing but not much better. Still, this is a must-read for any serious mystery reader and most casual ones.

Redwall

By Brian Jacques

This is actually the first book of the *Redwall* series, though *Mossflower* precedes it chronologically. I have found that it is impossible to read these books in chronological order, as just about every book that Jacques writes seems to be set in a different time. In fact, it makes more sense to read them in the order that they are written, as later books contain references to previous ones, even though they haven't happened yet. This said, I do think that it is better to read *Mossflower* first, as it is otherwise a bit of a letdown.

Redwall is set in Redwall Abbey, built and populated by mice, moles, squirrels, badgers, etc. (Don't try to think too hard about relative sizes in

this book, it will only confuse and discourage you.) The creatures live peacefully (and eat a lot) until they are attacked by a wandering horde of rats, ferrets, weasels, etc. A young mouse named Matthias rises as the leader against the invasion, various allies are found and a lot of killing is done. It's fairly typical fair but nice light reading and the characters are well developed.

David Letterman's New Book of Top Ten Lists and Wedding Dress Patterns for the Husky Bride

by David Letterman and the *Late Show with David Letterman* writers

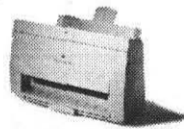
I'm not sure that this really counts as a book. It has words and a cover and all but it's pretty severely lacking in the way of plot. On the other hand, it's pretty funny (#5 Thing Heard at an NBA Game: "Damn! Michael Jordan just quit to try professional hockey!").

There actually are wedding dress patterns in the back of the book, but they're on a 1" scale so they probably won't do you much good unless your Barbie's been putting on a few pounds lately.

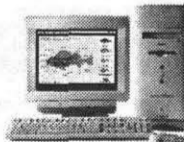
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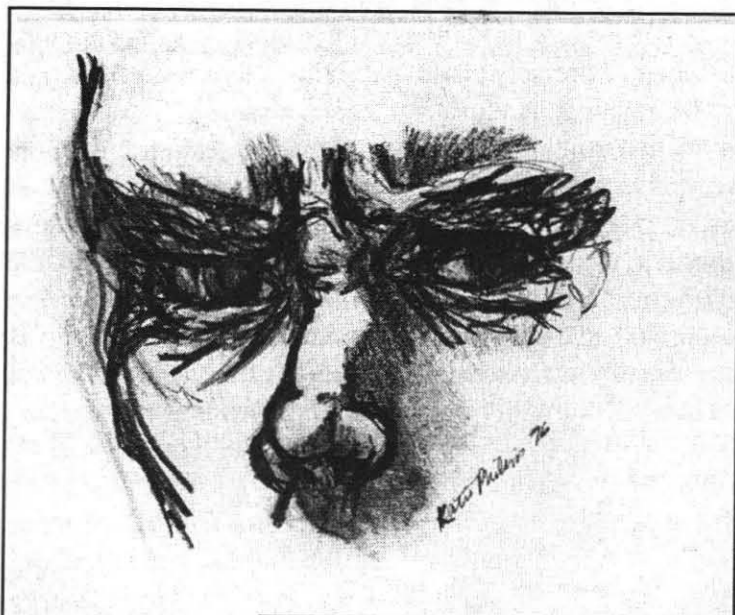
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Crime and Incident Beat

November 26th, 1996

Theft
Women's clothing, valued at \$200, was taken from the dryer on the north wall of the laundry room in Dabney-Blacker basement.

November 29th, 1996

Theft
The front and rear tires of an early

Espealized bike, valued at \$130, was taken from room 61, in Fleming House. Victim last saw the tires at 2:30 pm, on November 28th. Upon returning to his room at 9:30 pm, he discovered the tires missing.

December 1st, 1996

Incident
While on patrol, security saw a male jumping the east gate of Avery House. The person was

detained and proper identification was obtained.

December 2nd, 1996

Theft
Track mountain bike seat, valued at \$30, was taken from a bicycle parked on the south side of Moore Lab.

Hit and Run

While on patrol, security heard a collision near Wilson and San Pasqual. Security continued north to investigate and witnessed suspect back into a station wagon at the intersection of San Pasqual and Wilson. The suspect did not stop. The Pasadena Police Department was notified.

December 3rd

Theft
An unknown person took a claim slip belonging to the victim and retrieved a package containing cookies and a plane ticket valued at approximately \$500. The Airline was notified of the theft.

Burglary

An Apple II keyboard valued at \$149, two airline tickets valued at \$938, and a Teleport Platinum Fax/Modem value unknown, were taken from West Bridge, room #59. Person reporting the incident noticed the items missing at 7:30 am on December 3, 1996. Person reporting also noticed the south window open. Pasadena Police Department notified.

December 5th, 1996

Incident

Victim parked cart near Beckman Auditorium, where she was conducting a campus tour. When victim exited the auditorium, she noticed that the cart was not where she had left it. Cart was later found on the north side of Winnett.

Theft: Bike

Black and green Cannondale, mountain bike valued at \$900, was taken from inside Page House. Victim reported that the bike was last seen on November 29th, 1996 at approximately 11:00 am. Victim noticed the bike missing on December 1st, 1996.

December 7th, 1996

Theft: Bike

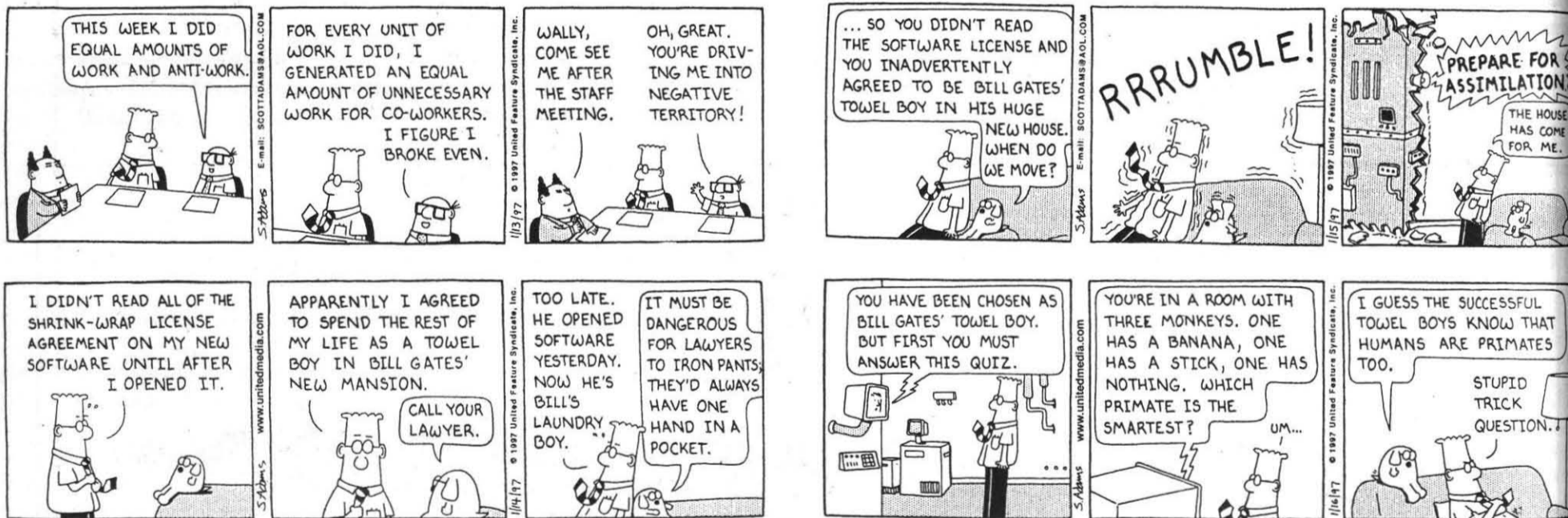
Red Murry mountain bike, valued at \$39.00 was taken from the lobby area of 1170 Del Mar. At 3:00 am, the victim parked his bike in the lobby. Upon returning to the lobby at 10:00 am, discovered the bike missing.

December 8th, 1996

Suspicious Person

White, male 6', long brown hair, approximately 30 years old. At the time of the incident, subject was wearing a tan coat, light blue pants. Victim reported that the subject apparently spent the night in the back yard of their residence at 430 S. Hill.

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MEDIA

CONTINUED FROM PAGE 1

of the band Wednesday, so if you're dying for that Plastic Ono Band fix, just tune in and you shouldn't be waiting long. Man, I love this town.

Breaking the Waves

This breathtaking story of love, devotion, and faith has been gobbling up well-deserved critics awards and may even get some Oscar nominations, a true triumph for a small "art film." Bess, a mentally unstable ingenue living in a strictly Calvinist Scottish island village, falls in love with a rugged Swedish oil worker, Jan. When Jan is paralyzed in an accident, a distraught Bess tries to keep their marriage alive by having sex with other men and telling him about it. The movie was shot on a hand-held camera, without theatrical lighting and in authentic settings rather than sets and then edited "on performance" with deliberate disregard to focus or framing. The entire film was then electronically leached of much of its color, perfectly portraying the bleak world Bess lives in. The strength of the story and the freedom Von Trier has allowed his actors work together to tell an extremely emotionally powerful story; film newcomer Emily Watson (as Bess) gives the best female performance of the year. This is on my very short list of the best films of the year.

Bjork, Telegram

Iceland's best export since cod has a new album with nine remixed songs from *Post* and one new tune. These are no cheesy no-thought "extended dance remixes, but complete rethinking of the original songs, ranging from harsh industrial versions of "Possibly Maybe" and "Enjoy" to a highly creative and tuneful arrangement of "Hyperballad" by the Brodsky Quartet. Fans of Bjork may know that she sees remixing as a real creative tool of musical exploration; in only two post-Sugarcubes albums she's released ten songs

SURF

CONTINUED FROM PAGE 1

The talks marked the end of SURF 1996. But according to Carolyn Merkel, director of the SURF program, preparation is well under way for SURF 1997. Applications for summer undergraduate research fellowships for this summer are available in the SURF office in room 137 in Beckman Institute. The SURF office strongly recommends that potential applicants start looking for research projects now. Applications are due by March 3.

as singles, each available in numerous versions. The mixes on *Telegram* are some of her best. The album is not a good introduction to Bjork, but if you have *Post* I encourage you to check out *Telegram*.

Also Playing

Jerry Maguire: Tom Cruise showed us in *Rain Man* that he can act; here, he gets to

do it again. Writer/director Cameron Crowe (*Singles*, *Say Anything*) reminds us that it's possible to make smart, heartfelt romantic comedies. The supporting cast is great, too.

The Crucible: This movie version of the classic play about the Salem witch trials is, as expected, a fiery indictment of superstition and false accusa-

tions. Daniel Day-Lewis is perhaps a bit of a ham in this, but it's such a blood-boiling story that you can't blame him. There's nothing really new here if you've read the play, but it's still very effective.

Emma: Gwyneth Paltrow shines in this delightful adaptation of the Jane Austen novel. The breezy yet insightful *Emma* was transformed

into *Clueless* in 1995; this straight adaptation is in limited re-release for the Oscar voters to remember it.

Swingers: Aspiring actors hang out in bars and try to pick up chicks; one succeeds, one fails. *Swingers* has an elementary premise but the script is sharp and funny; you'll likely recognize yourself or people you know.

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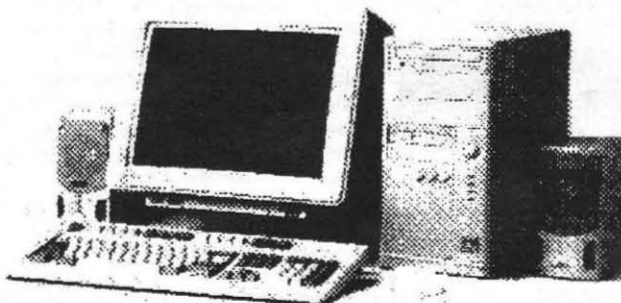
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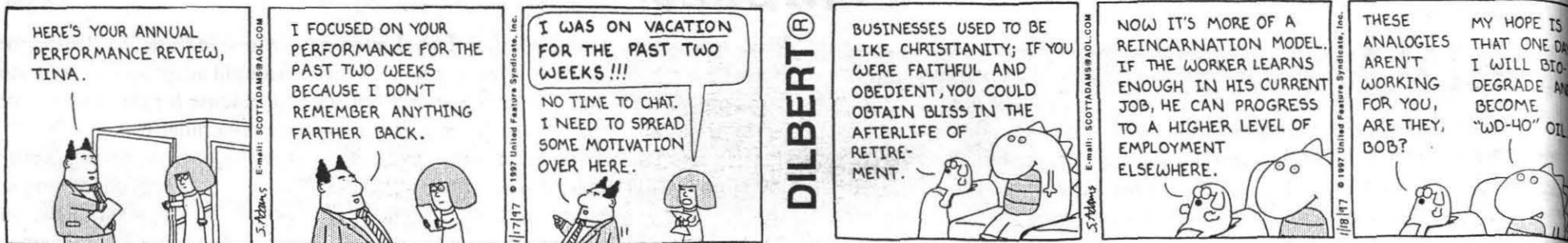
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Events

Bill redeems himself: Tonight's ASCIT movie is *The Hudsoner Proxy*, showing at 7:30 and 10:00 at Baxter Lecture Hall. Admission is \$2.00 for ASCIT members, \$2.50 for non-members.

Come out and square dance on Friday, January 17th, from 8pm to 10:30pm in Dabney Hall. Caller Lloyd Lewis will be calling both square and line dances. The dance is hosted by the Caltech Christian Fellowship with sponsorship from the Caltech Y and ASCIT. No experience is necessary; all are welcome. Tennis shoes are recommended. Refreshments will be served.

There will be a Writers Meeting on January 23rd, at 5pm, in the Women's Center Winnett 205. All perspective campus writers are encouraged to attend.

Caltech is sponsoring a one day Blood Drive which will be held in the Winnett Student Lounge on Friday, January 24th, between 10:15am and 3:30pm. Please contact Vilia Zmuidzinas via e-mail at hrdvez@hr.caltech.edu or at extension 6001 for an appointment. Walk-ins are also welcome.

The Caltech Jazz Bands will perform at Beckman Auditorium on Saturday, January 25th, at 8 pm. Many female jazz composers will be featured, including Maria Schneider and Toshiko Akiyoshi. Admission is free. For more information contact x4652.

Oliver Stone will be speaking on "Film, Chaos, and Mass Delusion," at Beckman Auditorium, at 8 pm, on January 28th. Admission is free. For more information contact x4652.

Dr. Morteza Gharib, professor of aeronautics at Caltech, will be giving a Watson Caltech Lecture, "Cardiac Fluid Dynamics: Vortices in the Heart." The lecture will be at Beckman Auditorium on January 29th, at 8 pm. Admission is free. For more information contact x4652.

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 Famenco 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@cco.caltech.edu.

Salsa dance lessons will be offered 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, please contact Adam Showman at either 796-1098 or at showman@earth1.gps.caltech.edu.

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RATES.....\$4.00 for first 30 words; ...10¢ for each additional word. Send written ad with payment to 40-58. Deadline is 6 p.m., Monday before issue. No charge for on-campus lost & found.

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.

Fellowships and Scholarships

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 Parson-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 Parson-Gates, for an application. Deadline for receipt of nomination materials to the foundation is March 3rd, 1997.

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 \$3,500.00 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 stu-

dent will be asked to submit a short synopsis of her report to the Deans' Office at the end of the summer. If you are interested, please identify a sponsor for your experience at a research facility for a ten-week period. In a short essay, describe your project, and submit it to the Deans' Office in Room 102, Parson-Gates along with two faculty recommendations. The Deans would like to know for whom you would be working, where, and if possible some specifics concerning your proposed research topic. Proposals must be received by Monday, March 3rd, 1997.

From the Fellowships Advising and Resources Office, extension 2150, e-mail lauren_stolper@starbase1.caltech.edu

The American Association of University Women offers a number of fellowships to women who are U.S. citizens or permanent residents, including one year post-doctoral fellowships and special dissertation fellowships. The international fellowship is awarded to women who are not citizens of the U.S. or permanent residents who are engaged in full-time grade or post-graduate study in the U.S. A poster with a tear-off card that allows you to send for an application is posted on our main bulletin board.

The Department of Defense National Defense Student Education Grants are now available to all seniors and first year graduate students; the Fellowships Advising and Resources office will receive applications by next week. The application will also be available from the Web within the next week or so at <http://www.battelle.org/ndseg/ndseg.html>. The NDSEG supports work in almost all fields of science and engineering. The NDSEG provides three years of support for graduate study. No military service or sponsorship of the Department of Defense is required of applicants. This year's application deadline is January 15th.

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

The College Women's Club of Pasadena Scholarship Foundation is beginning its scholarship selection for the 1997-98 academic year. To be eligible to apply you must be a woman who is a U.S. Citizen, a sophomore or higher, and have a minimum 3.0 G.P.A. Applications are available from the Financial Aid Office, and must be returned to the Financial Aid Office by February 7th, 1997.

The Korean American Scholarship Foundation is offering more than 40 scholarships of \$1,000 or higher to full-time students of Korean American heritage enrolled in at least their second year of undergraduate or graduate school. For an application form, write to: Scholarship Committee, KASF Western Region, P.O. Box 486, Pacific Palisades, CA 90272. Applications and supporting documents are due February 8th, 1997.

Applications are now being accepted for the 1997-98 National Academy for Nuclear Training scholarships. Scholarships are \$2,500 each and will be awarded to eligible students majoring in nuclear engineering, power generation health physics, or chemical, electrical, or mechanical engineering with nuclear or power options. Applicants must be U.S. Citizens, have minimum 3.0 GPAs, and be full-time sophomores, juniors, or seniors in 1997-98. Preference will be given to students demonstrating specific preparation for employment in the U.S. nuclear power industry. Applications must be postmarked no later than February 1st, 1997.

The Elie Wiesel Foundation for Humanity announces the 1997 Essay Contest for the Elie Wiesel Prize in Ethics. The essay contest is open to full-time juniors and seniors. First prize is \$5,000, second prize is \$2,500, and third prize is \$1,500. Essays must be accompanied by a completed entry form. To obtain an entry form, send a self-addressed, stamped envelope to: The Elie Wiesel Foundation for Humanity, 1177 Avenue of the Americas, 36th Floor, New York, NY 10036. Essay entries must be postmarked by January 17th, 1997. For more information about the contest, come to the Financial Aid Office.

Women who are full-time juniors in 1996-97 are invited to participate in GLAMOUR

Magazine's 1997 Top Ten College Women Competition. This competition recognizes exceptional achievements; the vision, determination and academic excellence of female college juniors from across the country. Winners will receive \$1,000, the opportunity to meet with top professionals in their fields, and national recognition in GLAMOUR's October 1997 issue. Applications are due January 31st, 1997.

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.

John Michael Bishop, M.D. Professor, Department of Microbiology and Immunology will be giving a William and Myrtle Harris

Distinguished Lectureship in Science and Civilization talk, Plagues and People: The Battle Against Infectious Disease on Thursday, February 6th, at 4:00 p.m. in the Baxter Lecture Hall, Baxter Building. Refreshments will be served in the Judy Library, Baxter Building, following the seminar. For further information, contact Ingeborg Sepp at 818-395.4087 or isepp@cco.caltech.edu.

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 (doctoral 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.

The John Gyles Education Fund is offering financial assistance to students who are Canadian or U.S. Citizens. A minimum G.P.A. of 2.7 is required for eligibility. Criteria other than academic ability and financial need are considered in the selection process. Selected students will receive up to \$3,000. To receive an application, send a stamped (U.S. \$.32), self-addressed, No. 10 envelope to: The John Gyles Education Fund, Attention: R. James Cogle, Administrator, P.O. Box 4808, 712 Riverside Drive, Fredericton, New Brunswick, Canada E3B 5G4. Filing dates for mailing applications in 1997 are April 1st, June 15th, and November 15th, 1997.

Glenn Wyne, CCO's long time employee and computer technician passed away Monday night at his home in Pasadena. Arrangements have been made for his family and friends to remember him informally this Saturday, January 18, in his mother's garden at 814 E. Palmer Avenue, Glendale. There will be no formal eulogy nor refreshments or food, just family and friends remembering and sharing their thoughts about Glenn. Everyone is welcome.

Glenn worked at Caltech for over twelve years and will surely be missed. His home page on the Web is <http://www.cco.caltech.edu/~gpwl>. In lieu of flowers, contributions in Glenn's memory can be sent to the Best Friends Animal Sanctuary (Animal Protection) in Kanab, Utah 84741-5001.

THE CALIFORNIA TECH

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