

It's Add Day!
Add early, and add often!

see page, uh, your Advisor



ASCIT Election Statements —
vote for your favorite rooster!
BoC BoC!

see page 6

THE CALIFORNIA TECH

VOLUME XCIX, NUMBER 5

PASADENA, CALIFORNIA

FRIDAY, OCTOBER 17, 1997

Caltech Presidency shifts from Thomas Everhart to David Baltimore

Dr. David Baltimore, who took over as Caltech's President two days ago, sent a message of introduction to the Caltech Community. For the benefit of those who have accidentally erased the e-mail before reading it, or those who, despite repeated efforts, are not on the directory mailing list, The California Tech has reprinted Baltimore's statement below.

Hello! to the Caltech community. Today I take over as President of Caltech, and because I have a week of responsibilities in the East, I wanted to take this way to greet all of you.

Last spring the Caltech Board of Trustees asked me to be the sixth chief

executive of Caltech. I accepted only after some deep soul-searching, because it meant a profound change in my life. My wife, Alice, and I had to contemplate leaving friends and close colleagues behind in the New England we have come to love. It was the excitement of the opportunity to lead such a great institution that finally overruled all other emotions.

I have been to Caltech often since then and each visit has reinvigorated my commitment to the institution. To be steward of a school that reaches such peaks of excellence in so many areas of science and technology is a rare honor and a deep responsibility. Caltech has such wonderful students,

outstanding faculty, and dedicated staff, that I look forward with excited anticipation to becoming a member of the community.

Caltech's greatness today is very much the result of the attentive and creative leadership of Tom Everhart over the past 10 years. I am very pleased that we will continue to benefit from his wise counsel.

Don DeLillo starts his grand new novel with the line, "He speaks in your voice, American, and there's a shine in his eye that's halfway hopeful." American is a language and a style that dominates the world. It derives from the efforts and dreams of hundreds of millions of people spread

over 3,000 miles. It comes from two centuries of development of a uniquely effective-although occasionally chaotic-form of governance that gave us the moral strength to fight two world wars on foreign soil and today oversees an economy of remarkable flexibility and strength.

No piece of America is more important or more generative than Caltech. I am proud to make the 3,000-mile voyage to Pasadena to preside over Caltech's greatness at the beginning of a new millennium. There is a shine in my eye of high hope that the future holds great opportunities that we can realize together. I'll see you all next week.

Warren Buffett to give DuBridge Lecture Distinguished Investor to speak on Tuesday



COURTESY CALTECH MEDIA RELATIONS

FROM CALTECH MEDIA RELATIONS

Caltech students will have a chance to meet Warren Buffett next week when the billionaire investor is on campus as the 1997 DuBridge Distinguished Lecturer.

The lecture begins at 8 p.m. Tuesday, October 21, in the Beckman Auditorium on the Caltech campus. The event is free and open to the public, although admission tickets must be obtained in advance.

Buffett has expressed a desire to meet as many students as possible, so a number of tickets have been reserved at the Caltech Ticket Office for Caltech undergraduates and graduate students. Those interested may contact the office at 395-4652.

The lecture will be formatted in much the same way as last year's hugely successful DuBridge Lecture, in which Walter Cronkite spoke to an overflow crowd as the inaugural lecturer of the series. This year, Buffett will engage in a

one-on-one discussion with veteran print journalist Shelby Coffey, former editor of the Dallas Times Herald, the Washington Post Style section, and most recently, the Los Angeles Times.

Buffett was recently reported by Forbes magazine as the second-richest person in America, with a total individual wealth estimated at \$21 billion. Long recognized as an investment genius, Buffett is perhaps best

BUFFETT CONTUNED ON PAGE 10...

Big T, Totem Face Delays

BY MASON PORTER

Both the *Big T* and *The Totem* will be published later than usual this year. Traditionally, copies of the *Big T* are distributed shortly after Rotation. Last year, both publications were distributed jointly, although *The Totem* had been a June publication. Both *The Totem* and the *Big T*, however, are at least a couple of months away from publication, as *The Totem* is expected to be out in late November or early December, and the *Big T* may take even longer.

The *Big T* faced several problems this summer. They were severely understaffed and had to move into a temporary office in Avery because of the renovation of the Student Activities Center. They have yet to

move into their new office. Moreover, much of the *Big T's* material was submitted far past their deadline, making production quite a bit more difficult. Both co-editor Andrew Strauss and advisor Hall Daily expressed similar reasons for the

Much of the Big T's material was submitted far past their deadline...

delay. When asked what caused the delay, Daily stated,

"First, the conversion to desktop publishing and the use of much more color than in recent years has proved to be more difficult than expected, and the

limited number of people working directly on the publication made the situation even harder. Second, the failure of some Houses to submit material on time further complicated an already challenging situation. Finally, the move to a new office,

SEE DELAY ON PAGE 3

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LETTERS TO THE EDITOR

Business manager excesses and editorial control of the Tech

Dear Editors,

I'm writing because I am more than a little concerned about the compensation schedule debate noted in the ASCIT BOD minutes from the meeting of July 28, 1997. In it, the Business Manager's proposal states that the system of commissions for ads brought in be eliminated and a flat rate system be adopted. This to me opens the way for shiftless and flaky business managers (of which there exists a long history) by eliminating the incentive to find new sources of advertising revenue. This type of proposal by the incumbent Business Manager makes reasonable people wonder what type of racket is being run from the Tech offices in the SAC. Is the appointment to Business Manager now the way to riches on campus? The allegations of "overpaid" and "underworked" individuals on the staff who are making \$5000 or more in a school year should not be swept under the rug, especially when ASCIT routinely denies various groups funds, salary increases, and bonuses for lack of funds.

In its belated wisdom, the BOD rightfully struck down this proposal; however, I strongly believe a deeper problem exists with the handling of ASCIT membership dues in regards to the Tech, and the various by-laws that have the potential to essentially give the ASCIT BOD editorial power over the Tech.

Under the current system, the Editors and Business managers are responsible for the Tech's success under Article 14, Section 3. In the same section, however, the financial supremacy over the Tech's finances by the BOD is as-

serted. As most people know, the real editors of a publication are those who hold the pursestrings. Certainly, there seems to be a guarantee of the Editor's independence from the BOD in Section 4, but recent history has shown that given a "concerned" ASCIT BOD, pressure can be applied to the editors of the Tech, something that should concern all that claim adherence to the idea of a fair and unrestricted press. In addition, Section 5 states that, "The Business Manager is the only one empowered to transact business in the name of a publication." The Business Managers are appointed and thus beholden to the ASCIT BOD and not necessarily to the editorial staff of the Tech.

To compound all of the above power the ASCIT BOD has over the Tech editors is Section 9, essentially giving the BOD power to delay or deny payment of salaries to the Tech editors, especially if the BOD claims "unsatisfactory performance" against the Tech editors. In addition, Section 10 demands that the editors come on bended knee to the BOD to request approval for a compensation schedule and any later changes to said schedule.

All of this makes for a Tech whose editors can be, and occasionally are, overridden in their editorial decisions concerning content by the BOD. This is simply unacceptable—the editorial staff of the school newspaper should never be bullied around and intimidated by an arm of the student government. Such activities would basically turn the Tech into a low-budget clone of the public relations minded *On Campus*, a process that I think has been slowly occurring.

To have such a byzantine system of requesting salary changes and such seems rather absurd for a school of our size, and seems to send a message

that we tend to like our government processes to mimic our homework assignments—that is, complicated, difficult, and time consuming.

I propose that the Tech editorial staff be given greater control over their paper in the following manner:

- Eliminate the appointed position of Business Manager and the elected position of Editor. Create in their places the elected position of an executive staff that will combine the two positions into one team that can get

... the real editors of a publication are those who hold the pursestrings.

along with each other and have the power to compensate members of the staff in a fair and expedient manner, as they see fit.

- Eliminate all notions that the BOD can make financial decisions concerning the paper beyond dispute resolution and investigations into allegations of gross misconduct or negligence.

- Make it explicit that the BOD cannot even think of influencing content of the paper beyond its weekly minutes submission and other public notices.

Such a system would leave most of the financial decisions up to the people who are running the paper—certainly, some groups will fare better than others in making such decisions, and the results will be visible every Friday morning. It would also free the editors from any reins, explicit or otherwise, that the BOD currently has on them.

It would be sad to think that, in a place where ideas are to freely flow in the pursuit of knowledge, a student newspaper can be so easily gagged by a tug on its pursestrings.

TATSUYA MURASE

Caltech Apathy Society disbanded due to lack of interest.

BY NEIL STEVENS

With the arrival of David Baltimore next week as Caltech's new president, the campus has before it a challenge. This university is already a leader of research and a pioneer of engineering. Yet, as the fruits of such work evoke fundamental moral and policy questions, Caltech remains a leader in yet another field: apathy. I suggest that we should, together, strive to change this. Baltimore's presence gives Caltech new opportunities for notoriety. Let us take full advantage.

When fruit flies sprouted four wings, and men experimented with markets, Caltech changed the world. Yet, ask a Techer about the moral or social implications of such advances, and you get an angry shrug and a low muttering of, "Hum majors."

Campaign finance: the moneyflows.

BY JOHN HATFIELD

Yet again, President Clinton is being investigated, this time for certain indiscretions in his money-raising procedures. However, this is only the tip of the iceberg when it comes to campaign finances. President Clinton is only one of many politicians who has skirted the edge of campaign finance laws. However, the real crime is what is allowed legally, which is virtually no limit on soft money: the money given to the party and spent on advertisements about "issues." In a recent New York Times article, the superb abilities of Trent Lott, Senate Republican leader, at raising this kind of money

When important issues and elections explode in a firestorm of debate across the state and country, Techers say, "Proposition two-oh-what?" College Republicans, a staple of student conservatism, have only existed at Caltech for a year, and College Democrats have yet to appear.

When Communism fell in Eastern Europe, it was the scientists who designed new republics. While such political turmoil as a revolution will thankfully not be coming soon to Pasadena, this institution has the opportunity to make its addition to the national dialogue here, especially with Dr. Baltimore drawing the East Coast's attention to us. Political leaders in Los Angeles, Sacramento, and Washington would listen to our

APATHY CONTINUED PAGE 12

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 Unsolicited Articles: noon Monday

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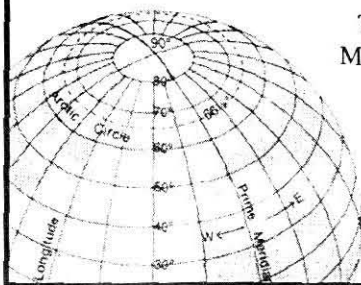
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Child Educational Center presents 17th annual arts & crafts festival at JPL

BY J. L. BEAUCHAMP

You'll find activities, entertainment, and artwork at the Child Educational Center's 17th Annual Arts & Crafts Festival, which will take place at JPL this Saturday and Sunday.

The Fair features more than 80 artists and craftspeople selling handmade items, including paintings, ceramics, jewelry, children's toys and furniture, hand-woven clothing, Halloween costumes and holiday decorations.

A special area for children features activities for children of all ages, including pumpkin painting, crafts, games, and face painting. Entertainment includes vocal groups, chamber music, dance groups and other programs of special interest to children. The Jim Gamble Puppet Productions will perform on

Saturday and Sunday at 11:30 a.m. for children of all ages. Greek Food, Perkins Sausages, Mexican Food, Kettle Korn, snow cones, fresh baked goods, and other offerings will be sold.

As usual, the JPL Space Museum will be open with multimedia presentations on space exploration, including space talks on the Pathfinder mission.

Life size models of the Voyager, Galileo, and Pathfinder spacecrafts, smaller models of other JPL spacecraft, and a radar globe of Venus are on display. A demonstration of the Mars rover will take place both days. NASA T-shirts, coffee mugs, souvenirs and toys will be available for purchase at the Fair.

What: The 17th Annual Arts & Crafts Festival presented by the Child Educational Center

When: October 18, 9 a.m. - 5 p.m.; October 19 10 a.m. - 4 p.m.

Where: on the mall of the Jet Propulsion Laboratory, 4800 Oak Grove Drive, in Pasadena. (JPL can be reached from the Berkshire offramp on the 210 freeway.)

Other: Admission and parking are free. A percentage of all sales benefits the Child Educational Center, a non-profit child care center serving the needs of children from eight weeks to five years of age, and an after school program serving children from kindergarten through grade 3.

Further information: <http://www.jlb.caltech.edu/fair.htm> or call (818)354-3418.

DELAY: Yearbook, literary magazine consider December publishing dates

CONTINUED FROM PAGE 1

which will make the publication much easier to publish in the immediate future, created problems this year, too."

At this point, most of the *Big T* has been designed. Once the design process is completed, the printing can begin. According to Strauss, the *Big T* should take a minimum of two months to print. This process is not far from beginning, however, as the *Big T* editors have already scheduled a meeting with their printer.

The reasons for *The Totem's* delay are different. This year's editors agreed at the beginning of the year that *The Totem* would work better as a September publication than as a June one. However, the general Caltech community will not be seeing *The Totem* until late November

or early December.

Five editors began working on this year's *Totem*, but there are now only two de facto editors. The division of labor that was designed became skewed because of this.

One problem that thus arose was financial. Normally, funding—in addition to that provided by ASCIT—is procured at the beginning of the year, but the breakdown of the editorial division of labor prevented this. Until the middle of July, the editors felt that *The Totem* would not be published because the money that ASCIT was providing was not quite enough to cover the cost of the printing plates, and other sources of funding had not yet been found. That problem was eventually solved thanks to the generosity of the Dean's Office and the

Humanities and Social Sciences department.

There was also the usual dearth of submissions, but the Caltech community should still expect some intriguing literature, art, and photography this year. For example, *The Totem* will include several sketches by the noted artist, Dean, and Biology professor Jean Paul Revel.

Expect both publications to be innovative this year, although only in the *Big T's* case did that contribute to the delay in publication. The problems faced by both publications are transient, so next year's editions should be published promptly, barring unforeseen disasters. For more information about the *Big T*, contact Andrew Strauss, aks@cco; for *The Totem*, contact Strauss or Mason Porter, mason@ugcs.

The Outside World

by Myfanwy Callahan

YAOUNDE, CAMEROON —

Elections in Cameroon resulted in the reelection of President Paul Biya to another 7-year term with 80% of the vote. Many question the results however, as the three main opposition parties boycotted the election and few Cameroonians voted. It is feared that Cameroon may join other African countries and spiral into civil war.

hopes to generate enthusiasm for a free-trade zone throughout the hemisphere.

HAVANA, CUBA —

Authorities are holding a suspect in the half dozen bombings of hotels and restaurants that have occurred in recent weeks. One person was killed in the attacks. Since his arrest, no other bombings have been reported.

BUKAVU, CONGO —

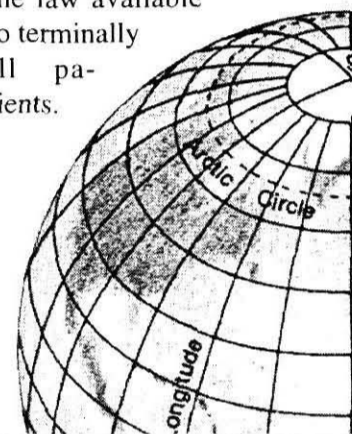
President Laurent Kabila of the Congo has yet to gain military control over the eastern province of the country, four months after his rise to power. Nearby in the Republic of Congo, fighting is escalating, especially along the border with the Congo.

WASHINGTON, D.C. —

A law in Oregon allowing physicians to participate in some cases of assisted suicide may finally come into effect after it was voted on three years ago in a state-wide referendum. The last appeal was overturned this week leaving the law available to terminally ill patients.

CARACAS, VENEZUELA —

At the beginning of his first trip throughout South America, President Clinton stated he envisioned "a new world in the making." During his trip he will be overseeing various international agreements on energy, education, and the environment. Clinton



Alumni Association offers funding for student organizations

The Alumni Association has funding available for student organizations that encourage interaction between students and alumni. To be considered for funding, an application form must be completed and returned to the Association no later than **October 30, 1997**.

To receive an application form, call Kerry at x6852 or e-mail her at kerry@alumni.caltech.edu. The form can also be found on the Web at www.cco.caltech.edu/~alumni/sfar_funding.html.

Decisions on funding will be made in November by the Student/Faculty/Alumni Relations Committee of the Alumni Association Board of Directors.

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Thai

best:
worst:

Chinese

best:
worst:

Food service entree

best:
worst:

Food service ice cream flavor

best:
worst:

Coffeeshouse shake

best:
worst:

Hamburger

best:
worst:

Italian

best:
worst:

Mexican

best:
worst:

Pizza

best:
worst:

Sandwiches

best:
worst:

Caffeinated beverage

best:
worst:

Shopping

Best music store

Best used clothing store

Entertainment

Local band

best:
worst:

Movie theater

best:
worst:

Radio station

best:
worst:

Romantic composer

best:
worst:

Superhero

best:
worst:

Tech feature

best:
worst:

T.V. show

best:
worst:

Best use for the cheesy *Flubber* mouse pad currently in Tech OUT box

Caltech

Best way to flick

Most sleep-inducing classroom

Professor most likely to pop the Nobel action

Class

best:
worst:

On-campus building (architecture)

nicest:
ugliest:

Toilet

best:
worst:

Comic you would most like to see in the *Tech*

Textbook

best:
worst:

Best hair color (and person it was on)

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best:
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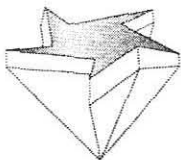
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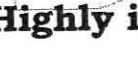
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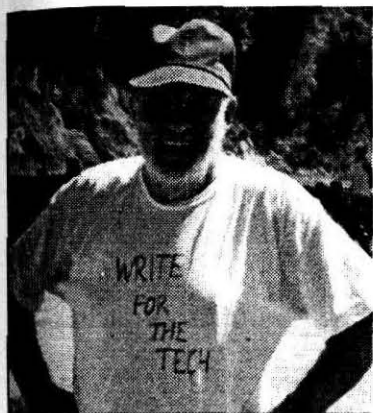
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Dean's Corner

Liquid gold

by Jean-Paul Revel



I have two items to discuss today, two items which, in an odd way, have to do with each other. Both have to do with liquid, although one figuratively and one in a real sense. Both have to do with students. Both have to do with matters of the mind, how to use it, and one how not to.

The first item has to do with SURF. You know, the organization with the horrible name, but catchy acronym, the Summer Undergraduate Research Fellowships?

Tomorrow is Seminar Day, when all students who have gone SURFing the past year will be telling their tales of success and woe, completing this year's work in the laboratory, library or place or space.

As you all must know, since you are here, research is an important component of the educational opportunities open to you at Caltech, and SURF is one of the ways in which you can partake of it. I am told by Carolyn Merkel, the director of the SURF program, that close to 60% of techers have at least one SURF experience during their time at Caltech.

Tomorrow afternoon, then, is the day when last year's cohort of SURFers will be presenting the work that they have done, starting at 1 p.m. (No Host Lunch available at 11:30 a.m.). Register on San Pasqual Mall (I guess that means the newly

renovated area between Res. Life, Chandler and Booth).

In their futures as Scientists and Engineers (or even Stockbrokers), today's Techers will all have to present and discuss their work with supervisors, colleagues (both in and out of their field of work), and even the gen-

... research represents a stab in the unknown, the result of which cannot be predicted.

eral public.

In a sense, seminar day is their birthday as scientists, the first time that they complete a cycle of research, from its inception, through execution and, most important of all, the telling of it, without which none of what happened before would be of any value.

The audience will consist of Faculty, Grad students, Postdoctoral Scholars, Alumni, Supporters of the program, Parents, and (we hope) lots of Students. This is a good time to come and encourage your friends and colleagues.

This is an important time for the Faculty to come and see what the students have achieved.

In some cases there will be seeds of bigger things to come. In others, as is true for many a research project, there will not be anything concrete achieved. The hypothesis was not proved or disproved, there was no proverbial brick added. The thing that was added to was the experience of the SURFer, a recognition that research represents a stab in the unknown, the result of which cannot be predicted.

So, come one, come all, friends, acquaintances, profs, advisors, parents, any of you interested and cheer on your favorite researchers. It will mean a lot to them. Even now I remember well giving my first research report being cheered by my Prof, the best compliment he ever gave me (or was it?) "Give'm hell Revel! attaboy!" Hang ten and ride the wave . . .

My second topic is also about liquid, not a great big wave crashing on the beach of the unknown, but a smaller one, as would be expected of liquids of lower surface tension. Smaller but important.

There have been long negotiations about how best to enforce the laws regulating the use of alcohol, and finally a compromise emerges; a compromise which allows the students and the houses the independence and self reliance they crave, yet would seem, on the face of it, also allow us to respect the law of the land.

In case you don't know, and who does not, the solution in-

volves training students to become bartenders. A great idea if your chosen career should fail, or medical school seem too drawn out a road to become a psychiatrist.

A subset of the student volunteers was selected and given TIPS training by a professional trainer. This involved a grounding in the legal aspects of serving liquor to minors, how to recognize an intoxicated individual, a discussion of how to resist pressure by peers,

and instruction in the mixing of drinks. The head bartenders so prepared then trained more students and qualified them to serve alcohol.

I really liked the idea — we all liked the idea — but it has one defect. In order to be effective, it has to work. That sounds like an idiotic statement; it seems so obvious, no rocket scientist needed to see that. Actually rocket scientists, busy as they are, biting their finger nails about their rockets, will it fly, will it not, (I write this before Cassini) may not be the right image.

Anyway, there is a flaw, and that is: what if the bartenders refuse to do their thing? Impossible! After all it is to the students advantage to make sure the system works. Without that we may . . . no not that, too difficult to contemplate, let's not even mention it. Impossible: there are

now a dozen trained bartenders. They are being paid for the job they are doing; they are doing a service to the rest of the student body and the school as a whole. The organizers of the party have listed 4 bartenders for a 5 hour party. So impossible!

But impossibly it turns out it was not at all impossible. It has already happened. At the last minute, several of the people who were supposed to work, for whatever reasons of their

own, probably very justified, could not, would not, do their stint. Some could not work their whole shift, some just did not show up — and as a result there were too few people to stand behind the bar. Outside people had to be brought in.

By the time this is printed, twelve more bartenders will have been trained, thanks to the kind cooperation of Mr. Charles Alpers, the general manager of the Athenaeum. But however many bartenders we have, the problem will still be there unless we all pull together and do our thing, all of us: student consumers, legal, student bartenders and everyone.

The alternative, I understand, is too horrible to contemplate . . .

A bientôt,

Jean Paul Revel

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✓ ASCIT Election 1997 ✓

ASCIT VICE PRESIDENT/BOC CHAIR

Alex
Ihler



All of you know what the job of being ASCIT VP and BoC Chair entails, at least in some sense. First of all, the VP is the person who steps into Kohl's office in the event that he should be assassinated. Of course, this means that they shouldn't ride on the same plane, so if elected I'll try to make sure that never happens. (I'd like to avoid any part that involves Secret Service agents, though.) But by far the more demanding part of the job is the position of Board of Control Chair. The BoC chair is charged with overseeing the workings of the Board, running preliminary investigations, mediating hearings, and generally administering all the things that need to be in place for the Board of Control to operate. Most of these duties are shared jointly with the Secretary — they are the two members of the BoC who do not vote, preliminary investigations are generally done by the Chair and Secretary, and most of the other, smaller duties are shared in some way. So I have already had experience with almost all of these; as Secretary I've been doing them for some time, and since mid-September I've been filling in for the Chair. I know the job and I can do it well. (Hell, I've even got the paper shredder in my room.) I think that another portion of this job is often forgotten, though. The BoC Chair is, in some sense, a representative of the Honor Code to the faculty and administration. Just as house representatives are probably the most vis-

ible aspect of the BoC in the undergraduate community, the Chair is the person the faculty usually deal with. The Chair and Secretary jointly are representatives of the Board's decision to the Deans after the resolution of a case, and the Chair is the person who deals with explaining (any disclosed parts of) the results to faculty. I feel that I could do this well; I already do part of it. So why do I want to do this? The BoC Chair does a lot of work; it's a large time commitment. I want to do it for the same reason that I ran for Secretary—I think that the Honor System is the best thing Caltech has to offer. It is what allows us all the freedoms and privileges that we enjoy, at the small cost of giving foresight and consideration in return. I want to be able to do the most I can for the Honor System and to try to help it work smoothly and well for the rest of the community. I hope that you will consider allowing me to do it from the position of Chair.

Robert
Saliba



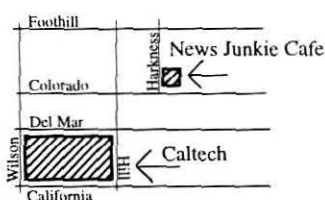
Robert Saliba for BoC Chair!!

Friends, Techers, undergrads, I run for the office of BoC Chair. In my heart, I do this not to run the everyday business of cases and violations. Although I have experience as a Board member in handling all stages of Board investigations, I get no satisfaction over "nullifying" advantages. Rather, I want the Board to grow from a disciplinary body to a true advocate for a stronger, more vibrant, Honor Code. I stand for more open BoC business meetings, more open discussion about how the Board goes about administering the Honor Code, and more open communication between the Board of Control and the undergraduate community which it serves. I want to make the Board a vehicle to the administration about the Honor Code implications of campus policies. I want to see better, clearer, collaboration policies. I want to see saner rules on house parties and pranks. I want the Board to at

least discuss, openly, questions about the coexistence of the Honor Code with some of the more abrasive administrative decrees. As far as the ASCIT VP position, I think that ASCIT needs to spend more effort soliciting money and support from alumni, needs to be more representative of the student viewpoint in campus politics, and should help the student houses deal with the administration. If you want what I want, vote Saliba for BoC Chair.

Don't forget to vote!

The ASCIT Election will be
10 a.m. — 10 p.m. Tuesday
in your house's lounge.



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✓ Election '97

Trained bartenders now required at student parties

BY BARBARA GREEN

and talked among themselves extensively. It is clear that Caltech cannot serve of alcohol to underage people, nor can we serve intoxicated people, regardless of age.

To ensure that Caltech's alcohol policy is effective, paid, trained bartenders must now be used at every registered event where alcohol is served.

The committee struggled with questions of how best to insure that underage and intoxicated people are not served. After much discussion the committee recommended using trained, paid student bartenders. So far, over 20 Caltech students have participated in this training.

In order to obtain alcohol, students must prove they are 21 or over by showing their official ID's (not a Caltech ID but a driver's license or acceptable substitute) to the bartender. The bartenders will provide only one drink at a time to those of age.

A committee has been formed to evaluate the success of this new approach. Their first task will be to come up with guidelines for the amount of alcohol to be purchased relative to the number of students of age at a party.

Last year a student, faculty, staff committee was formed by Student Affairs to review Caltech's previous alcohol policy and to consider the effectiveness of its implementation for students.

The committee met with Caltech's lawyer, the IHC, and the ASCIT BOD

Barbara Green is the Associate Dean of Students

ASCIT BYLAW CHANGE

The bylaw change would add a new subsection to the existing text:

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.

PRO

BY BRIGITTE ROTH

We should clearly adopt the proposed bylaw changes and here are the reasons why:

1) The community would benefit by these statistics because they be better informed about the current state of the honor system and the Board of Control, and would therefore be better able to check that the BoC is acting responsibly. If any great inconsistencies were to appear from one year to the next, then the community could be aware of these red flags rather than just letting them pass.

2) No harm can come of these statistics. There is no personal information released, nor any case-specific information that might hurt people involved in specific cases in any way. These statistics are too general to possibly violate anonymity in the BoC's proceedings.

3) The benefit outweighs the cost. The amount of effort that would be put into publishing these statistics would really be minimal, as the secretary simply has to compile all the information already recorded. We have no need to



CON

BY NOAH MALMSTADT

Though the proposed bylaw change appears, on the surface, to be a good idea, there is at least

one serious problem that becomes evident upon closer reflection. Namely, there is a risk of defendant confidentiality being violated.

If a reporting period were to occur in which the Board convicted the defendant in 100 percent of the cases it heard, all witnesses who had been brought before the Board during that period would be aware that the case in which they testified resulted in a conviction.

Normally, defendant confidentiality is protected by keeping the results of the investigation from the witnesses. Hence, in a situation such as the one described above, the reporting of Board of Control statistics would result in a breach of confidentiality.

This serious flaw must be considered in evaluating the proposed bylaw change.

worry that there will be wasted effort put into this. We are sure to profit.

Let's adopt this bylaw change.

ASCIT Movies presents...

The City of Lost Children

by William Penn and Joe Carroll who did not help much because he did not see the movie.



The City of Lost Children is the first movie for French directors Marc Caro and Jean-Pierre Jeunet since *Delicatessen*. The fast one-word review of this movie is surreal. The movie is similar to *Brazil* in feel and oddness, but the characters are more endearing and the story is easier to follow.

The plot: There's this guy who cannot dream, so he pays this strange cult to collect children so he can watch their dreams. Another guy's brother is taken, and he has to get him back. Then there is this other guy who actually made the guy who cannot dream and his helpers

and a brain in a fishtank with a speaker. Confused? Hungry? Ok, the movie is surreal, so any plot description is right and truly screwed up sounding.

The movie is quite good, it draws you in, so you really do not notice that you are reading subtitles. Although France has produced many incomprehensible things like Dean Revel, runway fashion, and late night Jerry Lewis marathons, do not hold it against this movie. Go see it, and if you want it without subtitles, we will supply you with a piece of paper to block out the bottom of the screen with.

NEXT WEEK: *Monty Python's Meaning of Life*



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Special effects creator speaks about *The Fifth Element*, other films

BY WEI-HWA HUANG

In the year's first talk in the Computer Science Department's Computer Graphics Seminar series, Doug Roble, a software developer from Digital Domain, spoke on the topic of "Integrating Special Effects with Live Action Film — Computer Vision Techniques and Challenges" in the Earle Jorgensen building this past Wednesday.

Digital Domain is best known for its superior compositing and other special digital effects on such movies as *True Lies*, *Color of Night*, *Interview with the Vampire*, *Strange Days*, *Apollo 13*, *Chain Reaction*, *Sgt. Bilko*, *The Island of Dr. Moreau*, *Dante's Peak*, and *The Fifth Element*, as well as several award-winning Jeep commercials.

The company is also responsible for the "Terminator 2: 3-D" show at Universal Studios Florida.

During the talk, Roble divulged some inside informa-

tion about the special effects in the upcoming James Cameron extravaganza *Titanic* and the upcoming Richard Gere thriller *Red Corner*.

Compositing is a commonly desired effect in many Hollywood movies. It allows different elements from within two pieces of film, filmed under different circumstances, to be put together on the big screen.

In the early days of filmmaking, this might have been restricted to split-screen or camera masks, where the camera basically has to stay unmoved while the parts are filmed separately. Later on, blue-screen/green-screen effects were used to add a character anywhere in the scene, but the camera still had to be held still or the filming had to be synchronized with motion-controlled cameras.

In the movies of recent years, however, directors want more control over the viewing angles, often expecting a special effect in a sequence of film where the camera is hand-held:

by noting the movement of certain reference points ... one may build a "digital model" inside the computer



A scene from Dante's Peak showcases special effects by Digital Domain.

from a helicopter, or moving in other ways that are difficult for a computer to simulate. Or, a director may want a fake scar to appear on a character's hand (which is moving in somewhat unpredictable ways), or a logo to be changed on a moving vehicle in the scene.

One might ask why the effects studio doesn't just alter the image to remove the jitters. The reason is that the 2,000 pixels by 1,200 pixels resolution isn't quite enough to satisfy directors if the image gets digitally filtered.

This makes the science of tracking very important. Tracking is a way to let the computer know where some

object actually is, just from the information contained within the film, which then allow digitized effects to be added.

As can be expected, the best possible trackers are known as human artists, since they can account for millions of exceptions that a computer may have trouble with. However, getting humans to track and modify every single frame of a clip is very tedious, expensive, and time-consuming, and so it is desirable for some sort of computer aid. Roble, the author of the most commonly used tracking program in the industry, detailed the processes and the difficulties regarding what such a tracking program should do.

There are essentially two ways to attack the problem. The first method is to treat the sequence of film as a two-dimensional image, and use some form of image correlation to see where the desired object to be tracked appears in successive frames. This is non-trivial since the object may have changed perspective, size, orientation, or simply moved partially out of view.

The second method is three-dimensional; by noting the movement of certain reference points on an accurately-surveyed object in the scene, one may build a "digital model" inside the computer — this is the actual production method used for Michael Jackson's video "Ghosts," which depicted a digitally animated skeleton dancing with

the exact same dancing moves that Jackson used in a studio, with little white reference balls stuck all over him.

Roble went into moderate detail on what the difficulties and advantages are of each method, seasoning the session with actual anecdotes, such as the plastic balls used as reference points getting consumed in flame during the filming of *Dante's Peak*, or of daredevil

surveyors measuring painted-black 55-gallon oil drums that were dropped on a glacier in British Columbia while hanging out from a helicopter. This, of course, was the preparation for the famous "Jeep under snow turns left at a stop sign" advertisement.

The seminar closed with the exploration of several yet-to-be-solved problems in the field, such as the ability to remove a character without the aid of a green-screen, or on improving existing 3D reconstruction methodologies. The Seminar was hosted by the Multi-Res Modeling Group at Caltech.

Oh, and word has it that *Titanic* will have completely digitized people interacting with live actors ...

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A.S.C.I.T. Minutes

13 OCTOBER 1997

Present (at some point): BoD (minus Mike A.), Myfanwy Callahan, Owen Aftreth

(This week Mike A. = Mike W. and Mike W. = Mike A. Huh.) Alex Ihler is still the temporary VP/BoC Chair.

Meeting opens at 22:40.

Dealing With Guests

Myfanwy — Picks up the check for the Ballroom Dance Club. Tangos right out of my life.

Officer Reports

Baldeep — Getting started on the UROH. Later this term, will organize the BoD having dinner in all of the houses so that y'all get to see our smiling mugs. Working with Kiran to organize a BoD turnover retreat.

Kiran — The wire drop to put the copier on the card system is done. The next step to finish implementing his little master plan is to get a card reader installed. An article about the state of student bartending may appear in the Tech soon. As for the van, we're waiting to see how much demand there is for the new Student Affairs van before deciding whether to sell or trade the old girl.

Adrienne — The ASCIT Halloween Party will be Saturday, November 1 somewhere at Tech. Get your costumes ready. There will be donuts on the Olive Walk sometime after midterms. The Caltech Y and the GSC are supporting jazz concerts in front of the Red Door. They have requested ASCIT funding. Adrienne is on top of that action.

Lori — The Dean will be eating in Ricketts first during his whirlwind tour of Tech dining facilities. The Ricketts waiters may make an exception and extend dinner to six minutes because of this unexpected honor. The IHC is meeting Thursdays at 23:00 in the ASCIT/IHC (SAC 64) office. The Alumni will be holding a career panel in Fleming in late November. Lori is working on setting up a senior formal

which would be a sort of training session for polite society.

(Owen and Myfanwy come in, give Lori some cash, smirk, and split. Somebody poisoned the waterhole!.)

John — Kim West allocated us \$300 a term for Friday donuts. Be behind (in front?) of Winnett at 08:00 on Fridays to get in on the action. ASCIT needs a new computer. The one we got is slow. It would be convenient to be able to have our own web server and to unify corporation finances. Lori and Mike W. will meet with Rick Fagan of ITS to look at our options. The inventory of ASCIT property is still in progress. So much crap, so little time.

Mike W. — Setting up the election for VP/BoC Chair. Statements will be in this Friday's Tech along with the bylaw change proposal. The election will be held on Tuesday of next week. The BoD will be meeting with soon to be President David Baltimore on Wednesday, November 5 to discuss undergraduate issues.

Alex — Keeps badgering Mike W. about the election. Alright already. I'll put up the damn bylaw proposal. Just get your foot off my throat you honkey mofo.

(Steve Michaels drops by looking for his keys. What a hunk.)

Kohl — Really likes the word honkey and is slightly less hunky than Steve. Everybody should come up with agendas for their office for the rest of their terms and think of issues to bring up with Dr. Baltimore. The Student Affairs has asked Kohl to suggest some student representatives for the DAPAC (pronounced "suck") committee. Kohl is nominating two undergrads for the sexual harassment committee. Adjudicate - to settle judicially. Henceforth the BoD will meet at 22:00 in the ASCIT/IHC office (SAC 64).

Meeting adjourned at 00:30 or so.

Respectfully submitted,



Michael D. Astle
ASCIT Secretary

PUZZLE

by Wei-Hwa Huang
Difficulty: Medium ∂∂

Fill in the grid with the digits 1 through 9 in such a way so that every row has 9 different digits, every column has 9 different digits, and every "amorphous blob" of 9 unit squares has 9 different digits.

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

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- Computer Science, Electrical Engineering, Computer Engineering, Chemical Engineering, or Materials Science major (enrolled full-time)
- Minimum cumulative GPA of 3.0/4.0 (B)

To Apply:

Applicants must complete an email application and a short (300) word essay; university and/or high school transcripts due by surface mail. Transcripts available in Registrar's Office.

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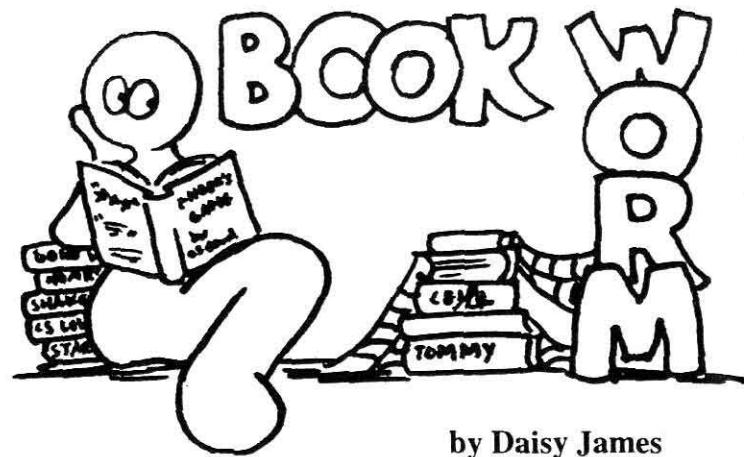
...BUFFETT, continued from page 1

known for the fact that he has made his fortune through investment alone; unlike most other billionaires, he has never been involved in a particular industry or corporation.

This year's DuBridge Lecture is co-sponsored by Aurora Capital Partners, Avery Dennison, Crutenden-Roth Inc., Edison International, Independent National Mortgage Corporation, the Los Angeles Times, Northern Trust Bank of California, The Parsons Corporation, Thompson & Company Insurance Services Inc., and United Airlines.

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by Daisy James

- ☒☒☒☒☒☒ Whoa
- ☒☒☒☒☒☒ Cool
- ☒☒☒☒☒ Uh-huh
- ☒☒☒☒ Okay
- ☒☒☒ Eh
- ☒ Ugh

Following his story, you cheer for him and want him to make it. But stepping away from that for a minute you realize that this is a person that you would never want to know. He can't look at anything without reducing it to first principles, falling leaves aren't pretty, they're a complex biological etc. etc. If you met this boy, your first instinct would be to punch him directly in the mouth.

The Uncertainty Principle

by Steven J. Frank

☒☒☒☒

This has to be the nerdiest book I have ever read. It's about a student at MIT who is, among other things, trying to find a better way to predict the weather. The other things concern his family, his roommate, his girlfriend, etc., but they all seem to take a back seat to this main objective.

Still and all, it's a fairly fun book to read and the author does treat Caltech as being an equal school, though I'm not sure we really want to be associated with these people.

Akiak

by Robert J. Blake

☒☒☒☒☒

The way that he's trying to do it concerns statistics and computers and some strange theories, all of which I could probably understand if I cared. The problem is, I don't. Sure, the author is good about making you care about the character (no mean feat, as I'll explain later) but there is nothing he can do about the reader's total indifference to the subject matter. If I wanted to learn about obscure mathematical and programming concepts I'll take a class. My point is, the author uses his characters to lecture to the reader, creating long, dull sections that the book could do well without.

A children's picture book about the Iditerod, Akiak is a dog/adventure/sports book. How could it go wrong? It doesn't. The story is written very simply and from the dog's point of view, but it takes a back seat to the pictures. Each one is a double-page spread of an oil painting, rough enough to give the feel of the churned snow but detailed enough to show the expressions on the dogs' faces. What can I say? It's a beautiful book.

The Hobbit

by J. R. R. Tolkien

☒☒☒☒☒☒☒

So why did I give it such a high ranking? The rest of the book, the parts concerned with the plot and the characterizations, succeed fairly well and were good enough to pull me through the dull bits in order to find out what would happen next.

Due to some extreme neglect in my education I read this book for the first time this summer. I'm sorry I put it off for so long. I would have liked to read it three or four times by now, just because. Bilbo Baggins, the reluctant hero, is Dr. Watson and Sherlock Holmes rolled into one (by which I mean that he is both a character that the reader can relate to and one that can solve all problems and lead the story). None of the characters are too perfect, in fact, most of their motivations spring from their least ideal traits. This way, the book keeps from being saccharine and dull; yet they are some of them all the more likable for their faults.

As for the characters, though, I do have one complaint. Frank made them too nerdy. I don't just mean one or two characters, I mean that every student at that school is portrayed as living and breathing science. For example, one scene briefly describes some students playing in the hall with a spring loaded ball gun. That I can believe. But he takes things too far when he says that the point of this game is to figure out the spring constant. (It might be good to know that the author studied at Brown and Harvard, never MIT.)

I'm afraid I may be preaching to the converted here; I have the impression that just about everyone has read this book. If you haven't, you probably should.

The worst offender on this front is the main character. Fol-

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I WAS THERE...AND SO WAS THIS GUY WITH A HATCHET!

I WANT MY MOMMY!

THE CRYPTKEEPER'S FILM VAULT. I WENT IN...

...MY MIND NEVER CAME OUT.

I WAS ATTACKED BY REAL ALIENS IN AREA 51...

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Caltech Women's Junior Varsity Volleyball Road Trip

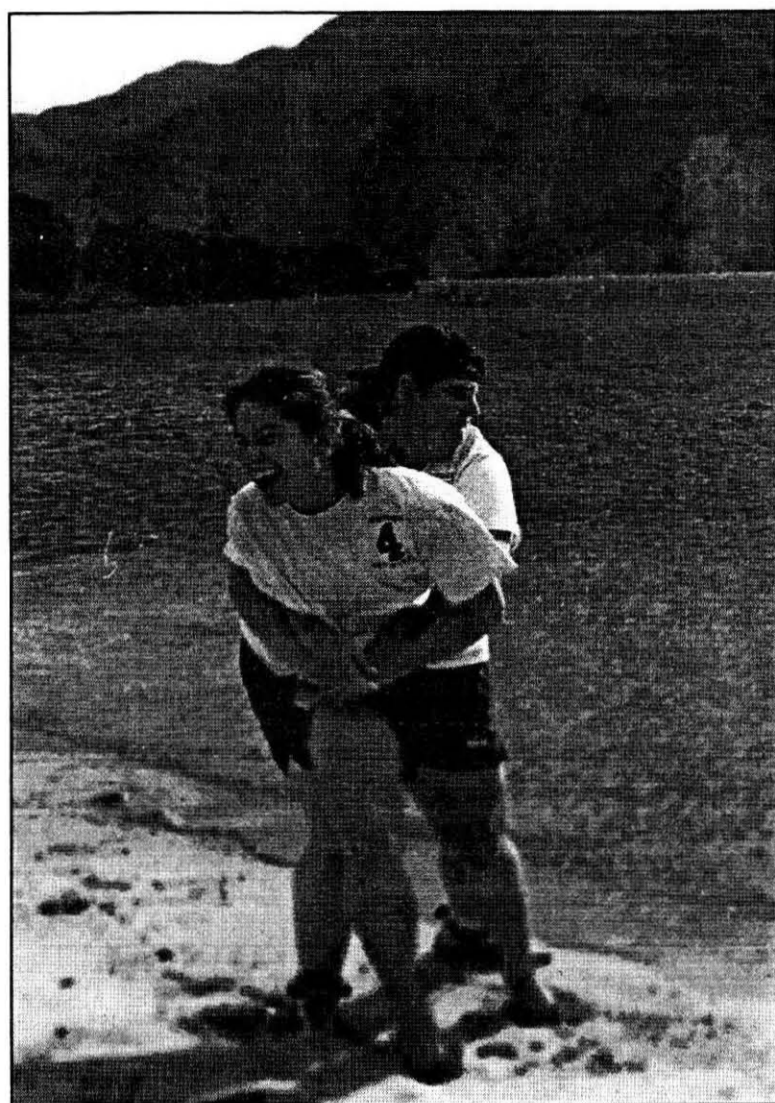
Kara Swedlow and the rest of the Flems on the JV Volleyball team showed Celeste Yang of Blacker Hovse what happens when you count Flems. Photographs courtesy of Lisa van Hooser, a neutral observer. *GO BIG RED -ed*



1. Running



3. Ponding



2. Grabbing

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Neil Stevens: The Apathy continues.

CONTINUED FROM PAGE 2

ideas and theories, if only we would tell them:

So, it is time for this campus to start talking. And, of course, to say something we must know something, and that entails reading. A good way to begin keeping up with the world outside is to read the Outside World in this newspaper. There you will find an excellent summary of current events. From there, there are several options. There are newspapers all over this campus, in house lounges and such. If killing trees isn't your thing, major newspapers like the *Los Angeles Times* have the

whole day's news on the Web. Or, for those who have only a short time to spare, there's always the news on television.

William Lloyd Garrison once wrote, "I will be heard!" While social upheavals like slavery shaped his century, and the politics of war shaped the current one, the 21st century dawns with the age of Information. Caltech needs to remain a pioneer in this new era, and this will take action, not apathy. We need to become aware, form opinions, and join this great debate of ideas, so that we may be recognized as more than "that science school."

John Hatfield: The money flows

CONTINUED FROM PAGE 2

were mentioned, as well as how he just killed the Campaign Finance Reform Bill. In effect, Phil Gramm's infamous line has come true: "Money is a politician's best friend."

The way elections are run now, money makes more of a difference than the politician's views or moral stature (The debate over whether moral stature should be considered when deciding about a candidate is one I will leave for now.) The problem is simply this: to acquire someone's vote, they must first have heard you. Since this is a nation that no longer reads its newspapers, one can only be heard by advertising during the hours when many, many Americans are mesmer-

ized in front of their televisions, watching the trials and tribulations of Tim Allen and Bart Simpson. Thus politicians are forced to rely on contributions from large donors in order to perpetuate their stay in office.

This puts our politicians in the unfortunate position where concerns for their constituents have to take second place to the concerns of those who can afford to pay for television advertisements. And so the concerns of their constituents over the trade dispute with Japan, or worker safety issues, or union regulations, must take back place to the concerns of the automakers, the factory owners and the A.F.L.-C.I.O., as these are the organizations which can help a candidate become known to the state.

The A.F.L.-C.I.O., after spending well over twenty-five million dollars on the last election, will surely expect some return for their investment in the Democratic cause. And the few Democratic freshman will, since they will rely on union money in their next elections, be forced to pay attention to the A.F.L.-C.I.O. as they consider who to listen to when considering labor relations issues, and possibly how they vote on these issues.

And now, one of our best hopes in this area has been eliminated with the defeat of Senator John McCain and Senator Russell Feingold's reform bill. We have a host of people to blame for this, not least Trent Lott, who brilliantly ran the Senate in his successful attempt to kill the bill. We now have a system that has proven it can perpetuate itself, and actual people will grow farther and farther from the system. Already, less than a quarter of the American people believe in the American government, and less than half of us bother to vote. More and more, the American people are losing touch with their government, and when this happens completely, democracy is lost.

And so the recent defeat of the campaign finance reform in the Senate is but one more step in the wrong direction towards a greater influence of money in politics. A solution needs to be found to this problem. The question of what is to be done is still an open one; but something must.

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Associate Second Round Interviews: February 17, 1998

Associate Final Round Interviews: March 1998

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Men's soccer puts up fight against Pomona-Pitzer

BY RON DOLLETE

The Caltech men's soccer team, ranked as high as 4th out of the eight teams in SCIAC, headed into a challenging week culminating in Saturday's game against a tough Pomona-Pitzer squad.

There were some changes in the roster coming into this weekend's game. Jorge "Pala" Palamara made his debut as a great playmaking halfback accompanying Francisco Dias, Kanwar Kahlon, and newcomer Ryan Merle. Also, Brian Frazier replaced Greg Fricke in goal as Fricke took leave from the squad, citing injuries that could jeopardize his baseball season.

Frazier provided a lot of veteran leadership and excellent goaltending on the field, including a great save across the goal box on a free kick that "banana"-ed around the defensive wall into his outstretched hands. However, the team would need much more in the realm of offense in light of the 0-8 loss.

Striker Dale Parkes led much of the Caltech offense, but the entire squad wasn't as attack-minded as previous

games, and Pomona-Pitzer exposed a very porous defense. In fact, most of Parkes' shots on goal came off of free kicks near midfield.

The other forwards, Mike Kuhlen and Stefan Kazachki, didn't have very many scoring opportunities as Pomona-Pitzer's defense prevented many balls to break through.

Caltech surrendered three goals in a span of four minutes in the first half, but staved off the Pomona-Pitzer offense by aggressively defending passes in the middle of the field. This stalemate continued into the second half until the defense appeared to break down again and another string of three goals were scored in a short time.

Schedule of Upcoming Sporting Events

Sport	Day	Date	Time	Event	Place
Cross Country	Saturday	10/18/97	TBA	SCIAC Multi Duals	La Mirada Park
Cross Country	Saturday	11/1/97	TBA	SCIAC Championships	Prado Park
Cross Country	Saturday	11/15/97	TBA	Regional Championships	Prado Park
Cross Country	Saturday	11/22/97	TBA	NCAA National Championships	Franklin Park, Boston MA
Water Polo	Saturday	10/18/97	TBA	Cal Maritime	Cal Maritime
Water Polo	Saturday	10/25/97	11:00 AM	Occidental College	Caltech
Water Polo	Wednesday	10/29/97	4:00 AM	Pomona Pitzer	Caltech
Water Polo	Saturday	11/1/97	11:00 AM	Claremont	Claremont
Water Polo	Wednesday	11/5/97	4:00 AM	Whittier College	Caltech
Water Polo	Saturday	11/8/97	11:00 AM	Redlands	Redlands
Water Polo	Friday	11/14/97		SCIAC Championships	Whittier
Water Polo	Saturday	11/15/97	11:00 AM	SCIAC Championships	Whittier
Water Polo	Sunday	11/15/97		SCIAC Championships	Whittier
Women's Volleyball	Friday	10/17/97	7:30 PM	College of Notre Dame	Caltech
Women's Volleyball	Saturday	10/18/97	8AM - 4PM	Caltech Tournament	Caltech
Women's Volleyball	Sunday	10/19/97	11:00 AM	Embry Riddle JV, Prescott AZ	Caltech
Women's Volleyball	Sunday	10/19/97	1:00 PM	Embry Riddle Varsity	Caltech
Women's Volleyball	Wednesday	10/22/97	7:30 PM	La Sierra	Caltech
Women's Volleyball	Tuesday	10/28/97	7:30 PM	LIFE BIBLE	Caltech
Women's Volleyball	Wednesday	10/29/97	7:30 PM	Pacific Christian	Caltech
Fencing	Saturday	10/25/97	9:00 AM	Intercollegiate Open	Caltech
Fencing	Saturday	11/8/97	10:00 AM	USC, UCLA, UCSB	Caltech
Fencing	Saturday	11/22/97	11:00 AM	UCSD and CSUF	Caltech
Fencing	Saturday	1/31/98	10:00 AM	Stanford and Northwestern	Caltech
Fencing	Saturday	2/7/98	10:00 AM	USC, UCLA, UCSB	Caltech
Fencing	Saturday	2/21/98	10:00 AM	UCSD and CSUF	Caltech

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*Source: Morningstar, Inc. June 1997 Morningstar is an independent service that rates mutual funds and variable annuities. The top 10% of funds in an investment category receive five stars and the next 22.5% receive four stars. Morningstar proprietary ratings reflect historical risk-adjusted performance, and are subject to change every month. They are calculated from the account's three-, five-, and ten-year average annual returns in excess of 90-day Treasury bill returns with appropriate fee adjustments, and a risk factor that reflects performance below 90-day T-bill returns. The overall star ratings referred to above are Morningstar's published ratings, which are weighted averages of its three-, five-, and ten-year ratings for periods ending June 30, 1997. The separate (unpublished) ratings for each of the periods are:

Period	CREF Stock Account Star Rating/Number of Domestic Equity Accounts Rated	CREF Bond Market Account Star Rating/Number of Fixed Income Accounts Rated	CREF Social Choice Account Star Rating/Number of Domestic Equity Accounts Rated	CREF Global Equities Account Star Rating/Number of International Equity Accounts Rated	CREF Equity Index Account Star Rating/Number of Domestic Equity Accounts Rated	CREF Growth Account Star Rating/Number of Domestic Equity Accounts Rated
3-Year	4/1,423	4/586	4/1,423	5/274	5/1,423	5/1,423
5-Year	4/324	4/384	4/324	5/158	N/A	N/A
10-Year	4/441	N/A	N/A	N/A	N/A	N/A

These top ratings are based on TIAA's exceptional financial strength, claims paying ability and overall operating performance. *Source: DALBAR, Inc., 1995 CREF certificates are distributed by TIAA-CREF Individual and Institutional Services. For more complete information, including charges and expenses, please read the CREF Prospectus offered above. Read it carefully before you invest or send money.

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FoxTrot by Bill Amend

I'M STARTING A MUTUAL FUND FOR INVESTORS WHO AREN'T BRIGHT ENOUGH TO KNOW THEIR ALTERNATIVES.

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WHAT'S AN INDEX FUND?

OUCH, OUCH! YOU'RE MAKING ME WAG TOO HARD!

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AS YOU KNOW, PAST PERFORMANCE IS NO INDICATION OF FUTURE PERFORMANCE.

SO MY STRATEGY IS TO USE YOUR ENTIRE INVESTMENT FOR MY PERSONAL EXPENSES AND SEE WHAT HAPPENS.

HAS THAT STRATEGY EVER WORKED BEFORE?

GEEZ, IT'S LIKE I'M TALKING TO A WALL HERE.

STUDIES HAVE SHOWN THAT MONKEYS CAN PICK STOCKS BETTER THAN MOST PROFESSIONALS.

THAT'S WHY THE DOGBERT MUTUAL FUND EMPLOYS ONLY MONKEYS.

YES, OUR FEES ARE HIGH, BUT I DON'T APOLOGIZE FOR HIRING THE BEST.

DOGBERT MUTUAL FUND

I DON'T UNDERSTAND WHY ANY INTELLIGENT INVESTOR WOULD PUT MONEY IN A FUND THAT HAS NO TRACK RECORD.

I TRY TO STEER CLEAR OF INTELLIGENT INVESTORS.

HERE'S MY LIFE'S SAVINGS.

DO YOU WANT MY NAME AND ADDRESS?

NO, I TRUST YOU.

THE DOGBERT MUTUAL FUND

IS IT HARD TO WRITE AN EARNINGS REPORT AFTER YOU STEAL THE INVESTORS' MONEY?

NAH.

I'LL JUST COMPARE MY FUND'S PERFORMANCE TO THE S&P 500 UNDER A COMMON SET OF ASSUMPTIONS.

OH.

HOW DID OUR DOGBERT FUND DO?

"TEN PERCENT BETTER THAN THE S&P 500 IF IT WERE ALSO MANAGED BY AN UNSCRUPULOUS DOG!"

MY GUEST TODAY ON "MONEY CHATTER" IS THE HEAD OF THE "DOGBERT MUTUAL FUND."

IT'S REPORTED THAT YOUR FUND IS THE HIGHEST PERFORMER OF THE DECADE. TELL US HOW YOU MADE THAT HAPPEN.

OKAY.

APPARENTLY, THIS GUY WILL READ ANYTHING YOU HAND HIM.

WHERE'S JASON?

OUTSIDE LAUNCHING A ROCKET WITH MARCUS.

AGAIN?? DON'T THEY EVER GET TIRED OF THAT? I MEAN, TALK ABOUT MONOTONOUS!

YOU PUSH A BUTTON, OBVIOUSLY THE ROCKET SHOOTS UP THEN PARACHUTES FOUND DOWN. WHOPIE DOO. SOMEWAY TO KEEP IT INTERESTING

NOW YOU'RE SURE THIS IS YOUR SISTER'S FAVORITE BEANIE BABY?

POSITIVE. PULL!

HE SAID HI TO ME, NICOLE! HE SAID HI!

MICHAEL "HUNK-MAN" KING - STAR CAPTAIN OF THE SOCCER TEAM... SENIOR CLASS VICE PRESIDENT... ALL-AROUND GOD - JUST WALKED UP TO ME AND SAID HI!

WAS IT A SUBTLE FLIRTATION? A PRELUDE TO A DANCE INVITE? I WONDER WHAT IT MEANS?

WELL, IF HIS REMARK "OOPS, I THOUGHT YOU WERE SOMEONE ELSE" IS ANY CLUE...

LOOK, IF YOU'RE GOING TO SPOIL THE MOMENT AT LEAST LET ME HAVE THE MOMENT, OK?

SWEETKAKES! I'M HOME FROM WORK!

HONEY BUNS! I'M SO GLAD!

I LOVE YOU SO MUCH. I LOVE YOU SO MUCH. I LOVE YOU MORE. I LOVE YOU MORE. I LOVE YOU EXTRA-MORE. I LOVE YOU EXTRA-MORE.

YOU FIRST, OR ME?

I DINGED THE CAR. HOW 'BOUT YOU?

WELL, SON, IT'S GETTING TO BE THAT TIME OF YEAR.

PRETTY SOON THE YARD WILL BE KNEE-DEEP IN LEAVES, AND WE ALL KNOW HOW MUCH WORK THAT CLEAN-UP JOB ENTAILS.

I'M GOING TO BE COUNTING ON YOUR HELP, PETER.

DAD ASKED YOU TO RAKE?

HE ASKED ME TO HIDE IT.

AH, RIGHT ON SCHEDULE, THERE'S JUPITER.

AH, RIGHT ON SCHEDULE, THERE'S SATURN.

AND, FINALLY, RIGHT ON SCHEDULE...

...THERE'S MY BROTHER WITH HIS GIRLFRIEND PULLING UP TO MAKE-OUT POINT.

I'D SUGGEST UPPIING TO A 10x EYEPIECE BUT WE BOTH ATE A LOT FOR DINNER.

HEY, PAIGE - WOULD YOU LIKE ME TO FIX YOU A P.B. AND J. SANDWICH?

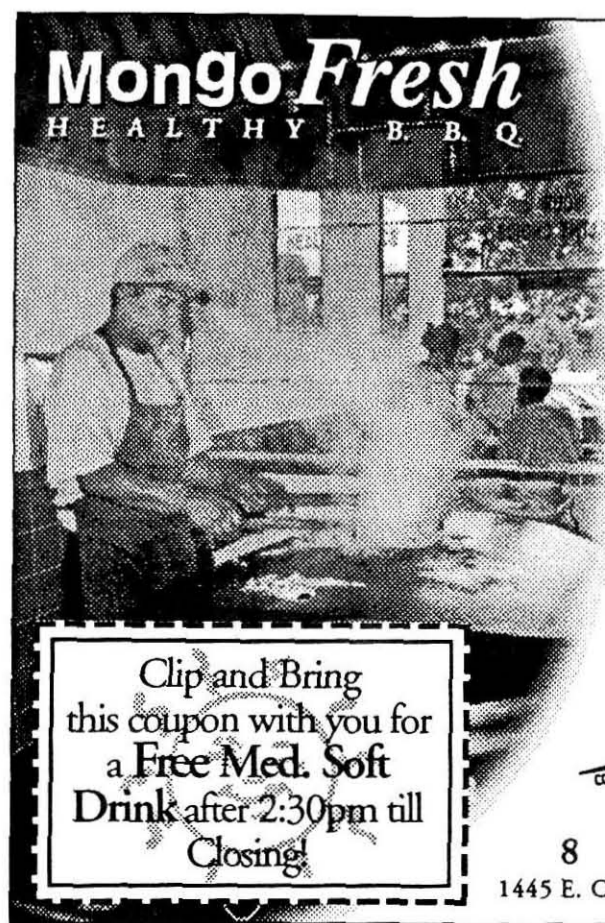
DEFINE P.B. AND J.

PEANUT BUTTER AND JELLY.

JUST CHECKING. SURE.

OK, SO TECHNICALLY I LEFT OUT A COMMA...

BLECH! WHAT'S IN THIS?? MARGARINE!



ARE YOU TIRED OF EATING THAT OLD BURGER OF YOURS, AGAIN? LOOK! HERE IS SOMETHING NEW, **MONGO FRESH BBQ**. YOU CHOOSE WHAT YOU WANT, WE HAVE 4 KINDS OF THINLY SLICED FRESH MEAT AND 14 KINDS OF FRESH VEGETABLES THAT ARE IN PERFECT COMBINATION, AND WE WILL COOK IT THE WAY YOU WANT. NOT ONLY THAT, WE USE NO MSG, NO LARD, NO MICROWAVE OVEN, NO ARTIFICIAL FLAVORS. SO WHY DON'T YOU COME BY AND FIND OUT FOR YOURSELF, HOW GOOD WE ARE.

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PRESENTATION

DATE: THURSDAY, OCTOBER 30, 1997

TIME: 4:00 PM

PLACE: 101 WATSON LAB BUILDING

UNDERGRADUATE INTERVIEW DATES

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Announcements

* The **Alumni Association** has funding available for student organizations that encourage interaction between students and alumni. To be considered for funding, an application form must be completed and returned to the Association no later than October 30, 1997. To receive an application form, call Kerry at ext. 6852 or email her at kerry@alumni.caltech.edu. The form can also be found on the Web at http://www.cco.caltech.edu/~alumni/sfar_funding.html. Decisions on funding will be made in November by the Student/Faculty/Alumni Relations Committee of the Alumni Association Board of Directors.

* The **Gay/Lesbian/Bisexual Discussion Group** meets on the first and third Tuesdays of each month from 7:30pm until 10pm in the Health Center lounge. This is a confidential meeting and does not imply anything about a person's sexual orientation--only that s/he 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.

The **Student Affairs Van** is now available to students and Student Affairs staff for Institute purposes only. Contact the Dean of Students Office, 102 Parsons-Gates, for more information. Prospective drivers will need a driving and DMV check before using the van.

Caltech Ballroom Dance Club will be offering free Beginner **Tango** classes in Winnett, taught by Derrick Bass every Wednesday this October. An instructor from Let's Dance LA will be teaching Beginner/Intermediate **West Coast Swing** classes every Thursday till November 6. Costs \$25 for the five weeks. Times are 7:30 p.m. to 9 pm with refreshments and open dance time following each session. For more information, see our posters and our web page: <http://www.caltech.edu/~ballroom/>

The **Student Affairs Office** is hiring a part-time, work-study student as an office assistant, for 6 afternoon hours each week. For more information, please contact Jerri Greene, ext. 6321, in 108 Parsons-Gates.

The **Coffeehouse** is looking for waiters. We are open M-F from 9pm to 2am and Sat/Sun from 8pm to 2am. Work Study students preferred. Please contact Gina Armas by e-mail to apply, gina@cco.

Sparrowgrass Poetry Forum, Inc. is offering a grand prize of \$500 in its new **poetry contest**. The contest is free and open to everyone, one poem per poet. Deadline is November 30, 1997. Send entries to Sparrowgrass Poetry Forum, Dept. LM, 609 Main St., P.O. Box 193, Sistersville, WV, 26175. Poets may also submit poems electronically at <http://www.tinplace.com/sparrow> or by e-mail, Sistersv@aol.com.

Events

* **SURF and TIDE Seminar Day** occurs this Saturday, October 18, between

11:30 am and 6:00 pm in various on-campus locations. For more information or lunch reservations, contact the SURF/TIDE Office at ext. 2885 or surf@cco. Complete schedules for student presentations are available in the SURF/TIDE Office, student houses, division offices, Dean's Office, and bookstore, and on the SURF webpage at <http://www.cco.caltech.edu/~surf/>.

* "**Jerusalem - Sacred and Profane**," a travel film to be presented by lecturer Rick Ray, will be shown in Beckman Auditorium on October 24 at 8:00 pm. For more information, call (626)395-4652.

* **Taj Mahal and Queen Ida** will be performing in Beckman Auditorium on October 5, 1997 at 8:00 pm. Ticket prices: \$32.00 - 29.00 - 26.00, with student and senior rush tickets available 30 minutes before the performance for \$10. For more information, call (626)395-4652.

* The Paco A. Lagerstrom chamber music series is featuring pianist **Peter Vinograde** on October 26, 1997 at 3:30 pm in Dabney Lounge. Admission is free. For more information, call (626)395-4652.

* **Dr. Paula Tallal**, a cognitive neuroscientist from Rutgers university, will present a pioneering computerized treatment for people with language-based learning disabilities during a lecture at California State University Northridge, on October 20 from 7-9pm. For more information, call (818)506-8866.

The **Distinguished Speaker Series** of Southern California is moving into its second season. The events will be held at the Pasadena Civic Auditorium on eight different dates at 8:00pm. On November 6th, Ann Richards, the 45th governor of Texas, will be the first speaker, followed by Tommy Lasorda on December 11th, Colin Powell on January 21st, 1998, Dominick Dunne on February 26th, Elizabeth Dole on March 12th, Jean-Michael Cousteau on April 8th, and Maya Angelou on May 13th and June 10th. For more information contact (800) 508-9301.

The **17th Annual Arts & Crafts Festival** presented by the Child Educational Center will take place Saturday October 18 (9 AM - 5 PM) and Sunday October 19 (10 AM - 4 PM), 1997, at JPL. The Fair features over 80 exhibitors of arts and crafts items, children's entertainment, food, music, presentations, displays, and other festivities. For further information visit the web site at <http://www.jlb.caltech.edu/fair.htm> or call 818-354-3418.

L.A. Circus, a European, one-ring circus, will be on the Beckman Institute West Lawn on Saturday October 18, and Sunday October 19. For more information, call (626)395-4652.

Knott's Scary Farm is celebrating "25 Years of Fears" on weekends, 7 pm until 2 am between October 3rd and November 1st, with rides, shows, mazes, and themed "scare zones." Advance ticket purchases are recommended, as evenings frequently sell out. For more information,

* denotes a new announcement.

call (714)220-5200 or visit their web page at <http://www.halloweenhaunt.com>

Shipwreck '97, the Queen Mary's annual Halloween extravaganza will take place from 7:00 p.m. to midnight on weekends from October 10th to November 1st. This event features a tour of the allegedly haunted ship, and dancing, deejayed by several LA-area radio personalities. On October 31st, there will also be a costume contest. Tickets are \$13 per person. For more information, contact (562)435-3511, or visit their web page, <http://www.queenmary.com>.

Fellowships and Scholarships

Applications for the **Hertz Graduate Fellowship** are now available. Applicants must have a 3.75 GPA during the last two years of undergraduate study and must be U.S. citizens or permanent residents. Eligible applicants (includes graduating seniors and all graduate students) should pick up an application from the Fellowships Advising Office. Although the Hertz application can be downloaded from the Web, applicants must submit paper references and submit the completed application on a special diskette. The application deadline is October 24, 1997.

Chateaubriand Fellowship Program, 1998-9, for graduate students in science and engineering, interested in working in a French university. For more information, write to The Embassy of France, Office for Science and Technology, Chateaubriand Fellowship Program, 4101 Reservoir Road, NW, Washington, DC 20007-2176, or see their web page <http://www.chateaubriand.amb-wash.fr>.

Graduate fellowships for Women and Minorities in the Physical Sciences are offered by the National Physical Sciences Consortium to graduating seniors who are female or a member of a minority group for Ph.D. level study in Astronomy, Chemistry, Computer Science, Geology, Material Science, Mathematical Sciences, Physics and subdisciplines of these fields. Email npsc@nmsu.edu or call (800) 952-4118 to request an application in diskette format.

The **Howard Hughes Predoctoral Fellowships in Biological Sciences**, for seniors and 1st year graduate students, have a November 12 application deadline. Complete applications and instructions can be found on the web at <http://fellowships.nas.edu>.

The Asian/Pacific American Association for Advancement, Inc. (4A) is accepting applications for their **4A San Francisco Bay Area Scholarship Program**. 4A will be selecting three scholarship recipients who will each receive a \$1,000 scholarship. Eligible students must be Asian/Pacific, U.S. Citizens or permanent residents, and must be enrolled full-time as undergraduate or graduate students. Applicants will be evaluated based on their scholastic discipline, personal achievement, and community involvement. AT&T, Lucent Technologies, and NCR employees and their children are ineligible to apply. Applications are due April

15, 1998.

The Sunkyoung Group of Korea and LeaderShape Inc. are sponsoring the **"Global Leaders of Tomorrow" essay contest**. Entrants must be undergraduate or graduate students at the time their entries are submitted. Essays may be written from one of four perspectives: Business, Government/Law, Science, or Media/Communications. Three winners will be selected in each of these 4 categories. First prize (1 winner in each category) is \$2,500 plus a one week trip to Korea. Second prize (1 winner per category) is \$500 plus one week at a LeaderShape training program. Third prize (1 winner per category) is \$500. The deadline for entries is April 15, 1998.

The **ACIL Scholarship Alliance** is offering scholarships for students majoring in the physical sciences: physics, chemistry, engineering, geology, biology, or environmental science. Awards are based on academic performance, career goals, leadership, and financial need, and are typically \$1,000-\$2,000. To apply you must be a junior or senior in undergraduate study, or a graduate student. Applications and all supporting documents are due April 15, 1998.

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 15, 1998.

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 and 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 15, 1998.

The **American Electroplaters and Surface Finishers Society** is offering scholarships to undergraduate juniors and seniors and graduate students who are interested in careers in the electroplating and surface finishing industry. Undergraduates must be full-time and must be majoring in metallurgy, metallurgical engineering, materials science or engineering, chemistry, chemical engineering, or environmental engineering. Applications must be submitted by April 15, 1998.

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, Ad-

ministrators, P.O. Box 4808, 712 Riverside Drive, Fredericton, New Brunswick, Canada E3B 5G4. The remaining filing date for mailing applications in 1997 is November 15, 1997.

The **Jewish Family and Children's Services** offers financial support for Jewish individuals and their families. Individuals may apply for up to \$5,000. Special scholarships are available for study in Israel. To be eligible, students must have financial need, have at least a 3.0 GPA, and be residents of San Francisco, the Peninsula, Marin or Sonoma counties, or the Bay Area. There are no deadlines--applications are accepted throughout the year and are available in the Financial Aid Office.

* The **Josephine de Kármán Fellowship Trust** is pleased to announce the availability of ten fellowships in the amount of \$7,000 for 1998-99. All studies must be carried out within the United States and expended within the United States. Fellowships are open to students entering their senior undergraduate year and graduate students entering the terminal year of a Ph.D. program in Fall 1998. For application information write to: Fellowship Committee, Attention: Judy McLain, Secretary, Josephine de Kármán Fellowship Trust, P.O. Box 3389, San Dimas, CA 91773, or visit the Financial Aid Office. Applications must be postmarked no later than January 31, 1998.

* The **American Society of Naval Engineers** is offering \$2,000 undergraduate scholarships and \$3,000 graduate scholarships for the academic year 1998-99 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 co op undergraduate program for one year of graduate study leading to a designated degree at an accredited college or university. The deadline to submit applications is February 15, 1998.

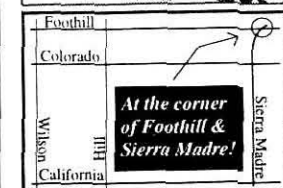
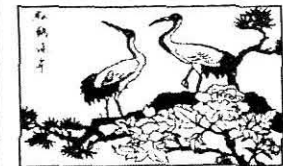
Graduating seniors with at least a 3.0 GPA should consider applying for the **Churchill Fellowships** which provide a year of graduate study at Churchill College, Cambridge University. Students are able to earn a degree, certificate or diploma during their tenure at Cambridge. Applicants can come from any area of engineering, mathematics, physical, or natural sciences. The award covers tuition, fees and a living allowance. A travel grant is also available to cover airfare to England. Applicants must submit a two to four page essay.

NSF Graduate Fellowships, paper applications are available from the Fellowships Advising Office in Room 25 in the SAC. You can also access, complete, and submit applications through the Web. The NSF FastLane Graduate Fellowship Program's web page is located at <http://www.fastlane.nsf.gov>. Both the paper and FastLane system include the Women in Engineering and Computer and Information Science Awards. Note that U.S. citizenship or permanent residence status are required. The application deadline is November 6th 1997.

Note that on all the fellowships listed above you can get help with your essay or clarification of questions from our office. For info, please contact Laure Stolper lauren_stolper@starbase1.caltech.edu. To schedule an appointment contact x2150.

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