

Greetings,  
Taxes!!!

# The California Tech

Pay Your  
Prefrosh!!!

Volume XCV, Number 23

Pasadena, California

Friday, April 15, 1994

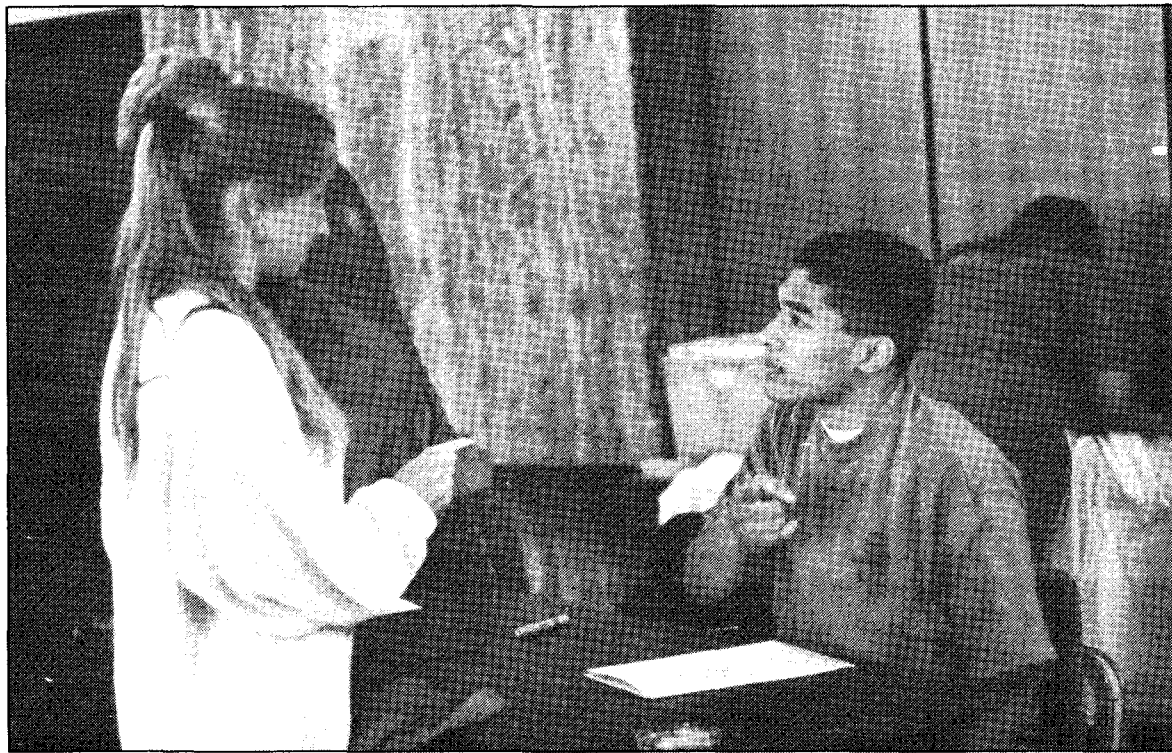
## Prefrosh Weekend Brings New Life to Caltech

by Carter M. Moursund

The entire face of Tech changed yesterday with the arrival of over two hundred new faces, each of which represents the future of Caltech. Prefrosh Weekend 1994 has begun.

After arriving at Tech, the prefrosh were subjected to their first dinner at their assigned houses then oriented for the rest of the evening. Today, prefrosh were given the opportunity to sample the academic life here at Tech by visiting classes and faculty. Tonight, there will be presentations by the Music and Theater Departments as well as an ASCIT Party and the weekly ASCIT movie. Tomorrow, there will be a tour of the Jet Propulsion Laboratory and also panel discussions on "Life at Caltech." Then, from that point on, there will be free time for the prefrosh which will be filled with events sponsored by the houses as well as opportunities to experience Caltech culture and life in person.

"The focus of Prefrosh Weekend is an accurate view of Caltech," said Garret Choi, Assistant Director of Admissions and coordinator of Prefrosh Weekend. Mr. Choi also commented, "Prefrosh Weekend provides a view of life at Caltech that's not in the view books." His colleague, Marcy Whaley emphasized that Prefrosh Weekend is becoming



a more student run event and that admissions tried to stay out of the actual weekend. She also said that Prefrosh weekend is not a "slick sales job;" instead it is an effort to give prospective students an honest view of what Caltech is like.

When discussing Prefrosh Weekend with undergraduates, you will seldom hear a student say that Prefrosh Weekend is truly representative of what life is like at Caltech.

One student went so far as to say that Prefrosh Weekend was one of the most "incredible phony put-ons" he had ever seen. Another said that Prefrosh Weekend was misleading because so many events were taking place at once, even though each one of these events in itself is representative of Caltech. He also commented that most students "blow off their homework to play with the prefrosh." Many students share this sentiment.

Most prefrosh will not leave Tech with an accurate opinion of the work load here.

Prefrosh hosts ideally correct for these misconceptions. As hosts, these volunteers have not only offered their rooms, but also their time and honest opinions. Prefrosh are dependent upon their hosts and the other people they meet to provide them with an accurate view of what life is like at

SEE PREFROSH, PAGE 11

## ASCIT Formal Faces Uncertain Future

by Tatsuya Murase, esq., Ken

Walsh, and James A. Honaker

The ASCIT Formal has been a point of contention since the start of this year due primarily to its expense and low attendance. It is, by far, the largest per capita social event that ASCIT funds. Those of us who have recently circulated this petition strongly believe that the burden of funding such an expensive event should not lie upon the members of the Corporation. However, we do not necessarily believe that the event should not exist, merely that it should not be funded out of the pockets of all the students.

Much has been made about the specific numbers on the costs of the Formal. It should be noted that the

financial statistics of the Formal presented at the time of the petition's circulation which were obtained from Anandi Raman, information from IHC meetings, and the most recent ASCIT BOD minutes have since been revised. Since this year's event is still seeking funding from various organizations, there are still no definite numbers. Last year's numbers, made available by ASCIT, are what will be relied upon for the sake of argument. According to Anandi Raman, last year's ASCIT Social Director, ninety people attended the Formal. This represents less than 10% of the student body. The fees collected from those in attendance amounted to \$1920. The total cost of the Formal was

\$5388.44. Simple subtraction will lead one to the amount that ASCIT subsidized that year. Having been one of those in attendance during that event, I can say with certainty that at least one person, namely my date, among those ninety has absolutely no connection with Caltech whatsoever, being a student at UCLA.

No matter what the cost of this year's Formal turns out to be to ASCIT, should a significant fraction of your \$20 per term dues be spent on this event? Looking at last year's figures, one can see that 5% of the ASCIT annual dues collected were spent on ninety people for one evening. Compare that with parties that may cost an equal amount, but have an estimated attendance of two to three hundred. In addition, parties have no entrance fees and are open and easily accessible to all while the Formal still has a significant entrance fee in addition to the costs in time, money, and other preparations (tux rental, etc.).

The possibility that the Formal can still be held in lieu of ASCIT funds is a feasible alternative. Looking at the projected figures, one can clearly see for an event costing around \$14,000, with ASCIT proposing to pay \$3000, that ASCIT could conceivably attempt to find other sources of significant funding to cover the cost of its subsidies.

However, whatever the figures, the argument comes back to the philosophical standpoint of what we, the students, believe is appropriate allocation of funds in this particular

## A Formal Reply

by Chris Marsh, ASCIT Social Director

In response to the petition that has been circulated around the student body and the impending referendum in Monday's election, I feel that, as ASCIT's Social Director, I should respond. I am happy with the fact that this is coming to a vote of the student body, for after hearing continuously what a small fraction of the school thinks, I'm anxious to hear from the full spectrum. Before the vote is taken however, I believe the voters should be correctly informed about this year's planned ASCIT Formal, its predecessor, and the possible consequences of removing funding for the future. Last year's formal had 102 registered guests, 100 paying and 2 (the social director and her date) going for free. The amount that ASCIT spent on the formal last year was \$6,000, but due to this year's invitation of faculty, staff, and graduate students, the amount that ASCIT

SEE REPLY, PAGE 3

## Kilbourne Speaks at Tech

by Cherish Bauer

Jean Kilbourne, Ed.D., spoke Wednesday night on a subject for which she is most famous: media's portrayal of women. The event, sponsored by the Caltech Y, the Women's Center, and the Organization of Women at Caltech, attracted about fifty women and twenty men.

Ms. Kilbourne began by introducing advertising as a \$130 billion per year industry. People spend 1 1/2 years of their life watching ads, and children, who spend 1/3 of their waking time watching TV, are exposed to approximately 500 ads per week.

In the world of advertising, everyone is heterosexual and most people are white. All families are nuclear, and men outnumber women two to one. Also, all the women portrayed in advertising are impossibly beautiful (impossible because almost all pictures are touched up with computers) or housewives with obsessive-compulsive disorder because they are afraid their house is dirty.

One example of an ad which was humorous, but also offensive, had the question, "Does your husband wish you had larger breasts?" in large print. The point this ad seemed to make was that a woman with this problem should change her breasts, not her husband (or at least come to a better solution). Kilbourne believes that ads like this are a partial cause of most adolescent females' drop in self-esteem, something which isn't a problem in most adolescent males.

Women, as sex symbols, have become thinner and taller over the past few years. Marilyn Monroe wore a size 12, but the average model weighs 23% less than twenty years ago. Only 5% of American women actually have what is depicted as the "ideal body". For example, Julia Roberts had a "body double" in the movie *Pretty Woman*. Many nude scenes and even the ads actually contained the body of another woman. Nikki Davis, a woman of color, actually had to use skin bleaching cream or else she would not have been considered "beautiful".

The diet industry, which didn't exist twenty years ago, has escalated into an annual market of \$33 billion. Unfortunately, most of these diets don't work. In addition, a recent poll stated that 80% of forth graders are

SEE KILBOURNE, PAGE 10

## Save the Earth

### Write for the Tech

Come down to the Coffeehouse at 12:15 p.m. today and every Friday. You'll get free pizza, a drink if you care for one, and maybe you very own article to write.

Writers, photographers, stringers, and many other people will gladly be utilized by the Tech.

Come and enjoy!



### Go to Earth Day

Today, at Winnett Quad, from noon to 2:30 p.m., Caltech will celebrate Earth Day! Stop by and eat veggie-dogs and free cake, play "Sort The Recyclables," watch JeopEARTHdy and the one and only Tournament of Environmentalists, and, most importantly, learn all about environmental issues affecting YOU. Many outside organizations will be present, including the Sierra Club, the United Nations Association, and Environmentally Responsible Investing. Earth Day is sponsored by the Caltech Y and CETF.

SEE FORMAL, PAGE 3

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## Letter to the Editor

### A Formal Tradition at Tech

It has been brought to my attention that there is currently a petition circulating on campus to discontinue ASCIT funding of the ASCIT Formal. I have attended the Formal for the past four years and have had a spectacular evening each and every time. I think that the Formal is an important part of tradition at Caltech, and that the death of yet another undergraduate tradition would be a great loss. The loss of ASCIT funding for the Formal would do just that - destroy it.

Undergraduate life at Caltech has a rich history filled with innumerable traditions, both in the community as a whole and in each of the seven Houses. During the past few years, the climate at Caltech has not been conducive to many of these traditions, and some traditions have either been watered down to the point of non-existence (e.g. each House's frosh "initiations") or have been completely obliterated (e.g. Interhouse). While some may consider it a stretch to mention the Formal and Interhouse in the same sentence, they hold many things in common, and those are the qualities and traditions that we, as both students and alumni of the Institute, need to preserve.

The Formal is an excellent opportunity for undergraduates of every house, and students living both on- and off-campus, to socialize with each other in a setting that doesn't require kegs and loud music. Additionally, the Formal may be the only time an undergraduate may patronize the Athenaeum until the Senior Banquet the night before Commencement. As one of the most outstanding private clubs in California and one of the top private alumni clubs in the nation, the Athenaeum is often taken for granted by those who see it out of their window or walk by it on the way to the Housing Office. Very few universities would allow students to attend a social gathering in its private club, and to have such a venue at the disposal

of the undergraduates for events such as the Formal is truly an honor.

While an undergraduate, I often found myself wondering what Caltech does with all of the money we (as the undergraduates paying tuition and fees) supply each year. One of the reasons Caltech is regarded so highly by professors and presidents of other universities is the dollars per undergraduate in the "budget." One of the ways this money is spent is through ASCIT and the various committees of ASCIT, one of which is the Social Director and his/her team. As someone who has worked with ASCIT social directors in attempts to plan campus-wide events, I understand the frustration in trying to evenly spread the budget to each and every undergraduate enrolled at the Institute. With respect to that, please remember that it is impossible to make everyone happy all of the time, especially with a student body as diverse as the one here at Caltech. The Formal is a long-time traditional event for the ASCIT Social Director's team and is an important part of the history of undergraduate life at Caltech.

It is your decision whether or not you want to attend the Formal. If you don't think you would enjoy yourself and choose not to go, please don't be selfish by ruining it for those who do truly enjoy it. Before letting yet another tradition fall by the wayside, please give it some thought.

Jessica A. Nichols  
B.S. 1993

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

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

## IHC Chair Election Statements

STANLEY S. GRANT III

Hello, I'm Stanley Grant, III, and I am running for IHC Chair. I would just like to take a moment of your time to tell you a little about why I think I'll do a good job as Chairman of the IHC.

I chose to run for IHC Chair because I hoped that my experiences would aid it in being an effective organization for the students represented by those on the committee (the House Presidents). I was Rud-dock House President and sat on the IHC in that capacity. There were many things which did not go on as well as they could have gone on, and there were other things I was quite pleased with. This is neither the time nor the place to complain about things that happened last year, but my point is that I think with some experience, we could have avoided many of the problems. My experience with picks will also be an advantage as IHC Chair. The IHC Chair runs picks. I believe that it will help to have someone who has had some experience with the process running it. This year was the third set of picks that I attended. I have seen picks from the perspective of an interested house member, a house secretary, and a house president. The chairman's perspective is slightly different from those perspectives, but I hope that it will give me a head start in running picks if I am selected as Chairman.

As IHC Chair, I would also be a member of the ASCIT BOD. The IHC Chair, as an ASCIT BOD member, forms a bridge between the IHC and ASCIT. I hope to use the position as an informational channel and to help improve student government in a broader sense at Caltech.

After I gave up my presidency, I had not considered running for IHC Chairman until someone pointed out to me that my experience on the past IHC could help the present one overcome some of the obstacles that bogged down my IHC. In the last election, I decided to run too late to sign up so I ran a write-in campaign. Although I lost that election, I was pleased to find that someone with experience had won and the present IHC would not suffer through all of the pitfalls that mine did. Now, that is no longer the case. So, I ask that when Monday, April 18 rolls around that you vote Stanley Grant, III. If you have any questions, please come by and talk to me. Thank you.

Sincerely,  
Stanley Grant, III

BEVAN C. BENNETT

These are troubled and bizarre times we're in. In the face of a gradually more and more oppressive society and an increasingly bureaucratic and restrictive administration the need for a strong and clear student voice is of urgent necessity. Unfortunately it seems that the divisions, affiliations, and responsibilities of ASCIT, the IHC, and the BOC have recently become unfocused and unclear. We need to get our collective acts together and re-establish a strong, well-defined, representative system to help resolve our differences and clearly present student views to the administration.

But you all know that, or something like that, and most of you agree that things are not so hot right now as far as student unity goes. The question remains, what am I going to do about it? Well, for starters I'd like to work with the IHC to clearly define the representation and purposes of that body. You can't get things done if you don't know what you're supposed to be doing. Similar questions need to be answered for both ASCIT and the BOC, and it's my hope that all three groups can come out of this stronger and more cooperative. I want to help.

In case you don't know me well, here's some potentially helpful information... I'm a non-graduating senior in EE who will be back next fall to clear up random requirements like social science courses and a PE. I live in Blacker room 0, work as an assistant sysop for CCSF and as the humanities department's projectionist, and like heavy metal and most other forms of rock and roll. I'm very concerned about student life and maintaining the (mostly) carefree, open, and unique community that I believe Caltech to be. I don't always feel that I express myself as well as possible, but I listen well and speak up when something needs to be said.

The simple fact that you are reading these long-winded statements instead of Dilbert means that you either care about what goes on here, or don't have enough to do. Elect me, and I'll do everything I can to work for you. Thanks.

Bevan C. Bennett

### Editors' Corner

Here at *The Tech*, our deadlines are still in effect as printed last week, and we plan to keep them as follows until changes are deemed necessary:

Letters to the Editor: 5 P.M. Monday  
Events and Notices: 5 P.M. Tuesday  
Regular and Semi-Regular Columns,  
General News: 5 P.M. Wednesday  
Art Submission: 5 P.M. Thursday

We expect the next issue to be cramped for space again, so please follow the deadlines as listed.

*The Tech* now has office hours during which at least one editor will be available for comment and discussion. Office hours are 5 to 6 P.M. every Monday and Wednesday in SAC room 48.

Question Man has escaped from prison and his location is unknown; it is believed he has gone on permanent sabbatical and announcement of any return date would be premature. We've deleted his account, too.

CHRIS BUCHNER

Yes, I have decided to run again for the IHC chair. I decided that I believe that I still want to help lead in our student government. Recently, there has been a lot of tensions between our elected leaders and some students. Because I have not yet been embroiled in this controversy, I think that I can add a crucial impartial hand in helping these discussions be resolved. We need to come together as a community and compromise to reach solutions, not argue endlessly. As a member of the ASCIT BOD, I would help seek solutions to these and other problems that ASCIT members have.

As the liaison between the IHC and ASCIT, I would also work for harmony. I would be the link for discussion between any differences between these two bodies. With our small student size, there is no excuse why these two groups cannot work together for the best of the students. By not working together, the needs of the students will not be met.

As for my position on the IHC, I will help the house presidents bring up their grievances, and I will see that fair and equitable solutions are presented. I am looking forward to working with the presidents to keep the house system. I also want to help the houses work together in other ways, not just in relation to problems. With more connection between the undergraduates, the housing system will benefit. I pledge to be fair and impartial in my work on this committee.

Thank you, and don't forget to vote.

(I have decided not to be verbose, although that strategy seemed to win last time.)

## The California Tech

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## The Inside World

has been held over until next week. Please send any and all submissions to iw@tech - registered undergrads only, please.



SATURDAY in Baxter Lecture Hall...

MICHAEL J. FOX  
CHRISTOPHER LLOYD MARY STEENBURGEN

# BACK TO THE FUTURE

PARTS I, II, AND III

7:30, 9:30 and 11:30 pm

Next Week:

<b>Special!</b>	<b>ASCIT/prefrosh</b>	<b>Non:</b>	<b>Walt Disney's CLASSIC</b>
1 Film	\$1.50	\$2.00	<i>Snow White and the Seven Dwarfs</i>
ANY 2	\$2.50	\$3.50	
ALL 3	\$3.50	\$4.50	



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COOL SPACE VEHICLES EDITION

by Ross Brown

Hello all! CSS Space News is back after a week's absence due to my two week-long siesta in the Swiss Alps. This week, we will cover the up and coming space vehicles being developed for NASA.

### Clementine: "Light she was, like a feather..."

So NASA, under the wise and cutting edge leadership of Daniel S. Goldin, is working on trimming its own waste and coming up with projects that are inexpensive, small, and quickly produced. It is quite ironic then that the Clementine Moon Mapping Mission (nice alliteration, huh?) was developed, built and launched not by NASA, but by the Ballistic Missile Defense Organization for a mere \$75 million. You are probably thinking that \$75 million is a big load of cash. It is, but not nearly as large as, say, the space station budget (\$5 billion and counting...), the Space Shuttle budget (\$201.6 billion), and other programs of this nature. Clementine has been doing its job very well since about February and is expected to continue without a hitch. It was developed and flown in only 22 months, which is nothing compared to the twenty years or so that the Galileo project will take from initiation to reach its destination. Hopefully, this project will inspire future NASA projects to become as efficient and quick as Clementine.

### Delta Clipper DC-X: Single Stage To Orbit Rocket

The Delta Clipper is an ambitious, underfunded project being undertaken by a NASA contractor. So far, it is a forty-foot tall rocket shaped rather like a penguin in heat. It takes off vertically, blasts its way to Low Earth Orbit, then returns

vertically, and lands with retrorockets like the *Millennium Falcon* in *Star Wars*. It has performed three flight tests with various maneuvers integrated. It is operating on a shoe-string budget, so further flight tests are not planned at this time unless they can get \$5 million from NASA. The DC-X is an attempt to create an inexpensive alternative to the shuttle and launchers like the Titan (US), Ariane (European Space Agency), and Proton (Russian Space Agency) rockets. The DC-X has become highly publicized with many backers in the space community.

### Pluto Fast flyby: "Faster, Cheaper, Better"

JPL's entry for NASA's new "Faster, Cheaper, Better" campaign is the Pluto Fast flyby Probe. It is due to launch in 1999 and arrive at Pluto in 2006. It is by far the smallest of the new interplanetary probes like Galileo and Cassini, weighing (massing?) in at only 120 kilograms. Look at the person on your left, now on your right; these two people together probably weigh the same as the PFF probe. The cost cap for the entire mission, including the operational costs, is \$400 million, which is still quite a bit cheaper than Voyager at \$2 billion (1976 dollars). The project team is made up of young, energetic engineers and scientists who want to break the mold for big costly missions. Several students from here at Tech have worked on the project, some as SURFs.

### It's True!

There really is a big rock on Mars that looks like a human face. *Weekly World News* did not just paint it up. It appears on two of the Viking orbiter pictures, but no corresponding alien civilization has been spotted along with it, despite *WWN* claims. The Mars Observer was to have cleared up the mystery, but alas, it was not meant to be.

### Quote of the Week:

"Reach low Earth orbit, and you're halfway to anywhere in the solar system."

—Robert A. Heinlein

For more information about CSS and its activities, email [css@cco.caltech.edu](mailto:css@cco.caltech.edu).



### Central Africa

Americans left the warfare behind in Rwanda and escaped Saturday by convoy. US Marines stationed in Burundi helped in the escape of foreigners from Rwanda.

### United States

The US and Ukraine agreed to shut down Chernobyl, the nuclear reactor plant whose dubious safety was questioned by inspection committees.

### Israel

A Palestinian, brandishing an axe, was killed Saturday by Israeli soldiers. He tried to attack the soldiers, presumably for vengeance for the mosque massacre.

### Mexico

One of the suspects in the Colosio killing was freed on Sunday by a Mexican judge. Two other suspects are being held without bail.

### Bosnia

Two US jets bombed Bosnian Serb artillery positions. These are the first air strike. They come after numerous threats of action by the UN.

### Japan

Under the pressure of scandal, Prime Minister Morihiro Hosokawa announced Friday that he was resigning. At present, Foreign Minister Hata and former Foreign Minister Watanabe appear to be in the lead as a replacement.

### South Africa

South African leaders and the Zulu King Dashed optimistic hopes when they did not reach any agreement in a Friday summit.

### China

The government is holding Chinese dissidents while French Premier Balladur visited China. The Premier did not comment on China's human rights practices.

## Literature Prize Announced

The Literature Faculty is pleased to announce the 48th Annual McKinney Competition. The Mary A. Earl McKinney Prize is awarded each year for excellence in writing. Only full-time students officially registered at Caltech as undergraduates are eligible to enter the competition. This year three prizes will be given in three categories: poetry, prose fiction, and non-fiction essays. All submissions must be typewritten and double-spaced. In the poetry category, entrants may submit up to three poems. Submissions of prose fiction should not exceed 12,000 words. Essays may be ones prepared for a humanities class or any good piece of original writing on a topic relevant to the humanities. The

prizes in each category will be \$300. Each student is entitled to only one entry in each category. All contestants must submit their work to Professor Jenijoy La Belle, Division of the Humanities and Social Sciences, 101-40, by no later than May 5, 1994. No entries will be returned. Each category will be judged by a committee from the Literature faculty. Essays will be judged on the quality of thought and the effectiveness of the writing. Winners will be announced the last week of May, and the names of the winners will appear in the commencement program. The Committee may divide the award in each category in case of more than one outstanding submission. Previous winners in any one category are not eligible for the competition in that category. If you have any questions, contact Dr. La Belle, x3605, or Barbara DiPalma, x3609.

## Formalities

by Zackary Dov Berger

The BOD spends several thousand dollars a year on ASCIT donuts. Only fifty people attend this event on any given week. We think that ASCIT donuts should no longer be funded because they aren't eaten by the people ASCIT so haughtily claims to represent.

The BOD spends several hundred dollars a term on elections. Only 200 people vote during any given term. (And they're mostly North Housers - it's a conspiracy!) We think that ASCIT elections should no longer be run by ASCIT because there are few voters among the people ASCIT sniffily claims to represent.

The BOD spends several hundred dollars a year on the UROH. Only a few people during any given year actually find jobs through their UROH search alone. We think that ASCIT should no longer fund the UROH because it's not used by many of the people ASCIT claims so factistically to represent.

The BOD spends hundreds of dollars a year on Asian clubs. Most Techers aren't Asian. We think that ASCIT should no longer fund these clubs because they're not used by many of the people ASCIT claims so Caucasianly to represent.

The BOD spends trillions of dollars a year on *The Tech*. No one reads *The Tech*. ASCIT should roll itself up into a ball and cry.

More petitions to come...

## Uncertain Future

FROM FORMAL, PAGE 1

matter. Can we continue funding the Formal at its "usual" levels because that's the way "it's always been"; or can we, in this year of introspection, reexamine this particular event and debate the pros and cons of funding it? If one believes that there exists a major discrepancy between subsidizing \$5 to \$10 per capita versus nickels and dimes per person, it is imperative to voice that opinion at the ballot box. We, the petitioners, strongly recommend voting for removing this burden on the Membership of this Corporation.

## Formal Reply

FROM REPLY, PAGE 1

is presently paying \$3000 for an evening at the Ritz-Carlton. In addition to the cleaning up of these accidentally misquoted facts, there are several other issues that should be made known to the student body. The first of which is that without ASCIT funding, the formal would simply not exist. It has been postulated that the Formal can be funded entirely from outside sources. Although it is true that these sources

have reduced the large sum that is necessary, ASCIT must still contribute a sizable sum for the Formal to take place. In addition, each source of outside funding has the right to dictate how that money should be spent, the result being that we slowly lose our autonomy to the outside world. This also sets a precedent for the future of funding from the Corporation. It is entirely unfeasible to have every event benefit every student all the time, and by removing funding for an event solely on this criteria, many other activities that

Techers value immediately come into scrutiny as functions that do not deserve ASCIT funding. Among these are ASCIT's donuts, Friday night movies, and the clubs that it funds. This could potentially lead to a point, however unlikely, which prompts a random bystander to ask "What, then, is this student government's purpose?" The answer is, like any government: it is charged with the representation of the population that it governs and the collection of money from the members with redistribution as is deemed beneficial.

## Spring Garden Chinese Restaurant

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The Caltech Jazz Bands will play at "The Baked Potato"—a jazz club in Old Pasadena—this Sunday evening. Call x6198 for more information.

"God and elementary particles have only relative conditions of state, whereas a surface has an absolute condition of state, namely curvature; thus only a surface can be fundamental existence, being that it is independent from anything else."

## THE EXACT NATURE OF THE UNIVERSE & GOD

By Joel WEBB

A Study of Surface Mechanics

Topics include the computer simulation of the nuclear-gravitational force continuum, neutron fine structure, the Contracting-Universe hypothesis, the first events and processes found in nature and luminiferous ether re-visited.

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# Velo Rolls Through March

by Michael Kantner

After disappointing weekends at Cal Poly San Luis Obispo and San Diego State University, Caltech Velo regrouped for a good weekend at UC San Diego and its luck continued at UC Irvine.

Despite rain and wind, Caltech placed tenth overall at the UCSD criterium on March 19. In the Men's D race, Marcus Chen, Cyrus Behroozi, and Rahul Pathak competed. The bad weather kept the pack together, and the results were decided in an uphill mass sprint finish. At the base of the hill, Cyrus and Marcus were in the top twenty. Marcus passed several people, finishing seventh overall. Unfortunately, Cyrus was boxed in behind two slower riders, and finished eleventh. In the Men's C race, only Michael Kantner raced for Caltech. The rain had stopped for the C race, but the wind was relentless. The pack stayed together until the final lap when three riders gained a slight gap on the field. Going into the final uphill finish, Michael sprinted early and easily took forth, nearly catching the lead group of three.

The following weekend at the UC Irvine Time Trial, Caltech Velo placed eighth overall. Scott May continued his time trial successes, finishing third in the Men's B category (tenth overall). Jody White, in her first race since a crash that sent her to the hospital, placed third in the Women's B race. Rahul Pathak earned points for Caltech with his sixth place finish in the Men's D race.

The next day at the UCI criterium, Caltech Velo did not

fare as well. Marcus, Cyrus, Rahul, and Kevin Hoke competed in the Men's D race. The combination of wind and a hill eventually tired them, and none of the four finished. Michael Kantner placed seventh in the Men's C race, which was not enough to place Caltech in the top ten.

At the end of March, Caltech was ranked twentieth in the conference, which includes all of California and Nevada, ahead of several schools, including USC.

Some results from the meets are shown below.

UCSD Criterium: March 19		
1. Cal Poly San Luis Obispo	271	
2. UC San Diego	240	
3. UCLA	138	
4. Cal Poly Pomona	98	
5. CSU Long Beach	97	
6. San Diego State	36	
7. UC Irvine	34	
8. UC Riverside	31	
9. University of San Diego	18	
10. Caltech	8	

UC Irvine Time Trial: March 26		
1. CSU Long Beach	163	
2. UCLA	163	
3. UC San Diego	140	
4. UC Irvine	109	
5. Cal Poly Pomona	75	
6. San Diego State	54	
7. Claremont	44	
8. Caltech	33	
9. UC Riverside	29	
10. Cal Poly San Luis Obispo	22	

## Women's Records Fall at Caltech Invitational III

by Tom Dmukauskas

On Saturday, April 2, the Caltech Invitational III attracted teams from all over the world, like Citrus College, Cal Lutheran, Biola, and the Australian Junior National Team. Though the women were unsuccessful in beating any of these teams in dual meet scoring, dropping their season record to 6-8, there were some notable individual achievements. Ginger Garcia ran at both ends of the distance spectrum, opening the day with a victory in the 10,000m, then later running a leg of the 4 x 100m relay. Radhika Reddy became the first woman in Caltech history to compete in the 2,000m steeplechase. Her graceful style over the barriers earned her a place in the record books with a 10:42.11. The 3,000m was won by Cailin Henderson after general confusion on the part of race officials as to how many laps the race was. Some runners were stopped one lap early, allowing Henderson to cruise through the line in 12:15. Gretchen Larson broke the long-standing women's triple jump record with a hop-step-and-jump of 10.07m (33 ft., 0.5 in.). The women will attempt to bring their season record back up to .500 at the final dual meet of the season this Saturday.

The men's team was not blessed with such outstanding performances, yet somehow managed to defeat Biola, Cal Lutheran, and the Australians. Only Citrus College was able to edge out the Beavers by a score of 75-66. Rob Bergeron was a key figure in raising the men's record to 8-6. He took third in the 100m (11.70s) and came back with a forth in the 200m (23.83s). Ron Steiger stepped it up in Ned Bowden's absence to swipe a second place in the 800m. Other highlights included second place finishes by Karl Thulin in shotput (36ft., 1.75in.), Art Greenberg in the quarter mile (53.14s) and Matt Metz in the 400m intermediate hurdles (61.5s).

This weekend will be a busy one for many members of the track team. Today, a large portion of the team travels to Pomona for the Pomona-Pitzer Invitational. Less than 24 hours later, everybody must be ready to go again for the last SCIAC Dual Meet of the season at Laverne where the Beavers look to improve their conference standing against Pomona-Pitzer and Cal Lutheran.

## Sports Scores

**Women's Softball**  
 1st game lost to Pitzer J.V.  
 13-10  
 2nd game won 7-6  
 Overall record of 3-18 and a  
 SCIAC record 0-12

**Women's Tennis**  
 4/9 lost CMS 0-9  
 4/13 Cal Lu  
 4/16 Redlands  
 Overall record 7-8, SCIAC  
 record 0-3

**Interhouse Rankings**

① Fleming	334.5
② Page	297
③ Ruddock	238
④ Lloyd	235.5
⑤ Blacker	112.5
⑥ Ricketts	111
⑦ Dabney	99.5

**Disco Rankings**

① Fleming	20
② Page	16
③ Ruddock	9
④ Lloyd	8
⑤ Dabney	6
⑥ Blacker	2
Ricketts	2



by Kenneth Lee

**3/10 Time Unknown**  
 A blue IBM Selectric III Typewriter, estimated value of \$80-\$100, was stolen from the fourth floor of Millikan Library. It is unclear how the unit was removed, but it is believed the typewriter was smuggled past the sitters on the first floor when they left to use the bathroom.

**Sometime between 1987 and 4/1/94**  
 A monochrome light photo multiplier was reported missing from Braun Laboratories and presumed stolen. The person reporting said that it had not been seen since it was purchased in 1987 but was never thought to be stolen until recent efforts to locate it within the lab turned up nothing. Estimated replacement value: \$6,629 new.

**3/18 2:20 A.M.**  
 A custodian noticed a person's shoes on the floor in the females' restroom on the first floor of Winnett Center, and when she inquired who was there, a male voice told her to wait. As she waited, the man, observed to be naked from the waist down, fled from the scene, leaving a black back pack in the hallway.

**3/18 2:20 A.M.**  
 A four foot marijuana plant supported by two sticks was found by the grounds crew in a flower bed. The grounds crew uprooted, cut up, and discarded the plant.

**3/28 6:55 A.M.**  
 A person was found sitting in the hallway of Downs eating an apple and talking to himself. When asked for identification, he produced a flier from local a palm reader and stated that he was looking for Disneyland. The person reporting the incident walked him outside and told him to go straight down California and he would find it.

**3/30 12:15-3:00 A.M.**  
 Someone defecated on the drain of the Faculty/Staff shower area in Braun Gym. In addition, someone moved a couch into the elevator.

**4/7 2:10 P.M.**  
 A suspicious person at the entrance to the Business Services Building stated that he wanted access to the fire alarm panel near the east doors. The suspect was escorted outside by security and was determined to be mentally ill. After numerous failed attempts to escort the suspect off campus, the LAPD was called in, at which time the suspect left without further incident.

**4/7 1:30 P.M.-2:45 P.M.**  
 Five rooms of a South Holliston apartment were forcibly broken into and two \$100 bills were noticed missing. The occupants have received phone calls late at night, and upon answering the phone, the caller hung up. They believe this is how the burglar knew that no one was home.

**4/8 12:10 P.M.-1:00 P.M.**  
 A Sanyo AM/FM radio-cassette player, valued at forty dollars was stolen from a desk in Central Files Business Services while the victim went on a lunch break. The office is usually left unmanned and unlocked for about twenty-five minutes each day when their supervisor usually comes into the office, however on the day of the theft, he had a dental appointment and did not show up.

**4/12 12:30 A.M.**  
 Two large bags of laundry were hidden by a tree next to Blacker House, and it was immediately suspected that a theft was in progress. Security staked out the bags and confronted the suspect when he returned. The suspect began to flee but tripped over a two foot embankment by Ricketts house, at which time a struggle ensued. The suspect began shouting obscenities and threatened to give one of the officers AIDS. In response to the commotion, a few students came to the aid of the officers and the suspect was subdued and arrested. This suspect may have been responsible for other thefts of clothing in the past, and attempts are being made to locate possible additional victims. If you have clothes that have been stolen from the South Complex laundry rooms in the recent past, please contact the Security office at x4701.

This month's total: \$6,969

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## Octopus Dreams A Social Commentary

by J. Random HercFrosh III and Lauren

### Today's Target: Affirmative Action

Affirmative action is a program conceived of, designed, and ultimately implemented with the intent of correcting the inequity felt by minorities (those of a lesser population?) in job placement, advancement, and termination. We will not endeavor to describe the egregious offenses which forced the American government to thrust this policy on an unwitting public. What we will do is bemoan the current implementation of affirmative action.

The short reason why affirmative action is bad is that it is simply and unquestionably unfair. Nobody seems to be able to admit this, because it's unfair against the "right" targets—white males (who, as everyone knows, are the source of all evil and injustice in the world). We will readily defend a private person's or organization's right to be unfair in their private dealings, but affirmative action is government legislated racism, which has no place in a free society. This brings us to the point of what a private matter is and what a public matter is. We believe that *private* employment, enrollment in a *private* school, or *private* scholarships given out by *private* organizations with *private* funds are private. Those in charge of selecting individuals for such privileges should have as much leeway in choosing candidates as they do in choosing their friends. That means if a private organization wants to give advantages to "minorities," we give them our blessing, so long as they give their blessing to any other private organization that chooses to give advantages to white male oppressor pigs. As an example, Caltech actively tries to recruit more females,

and with prefrosh weekend upon us, we are reminded of how Caltech pays the way for female prefrosh to attend, but doesn't give a cent to male prefrosh. This is patently unfair, but Caltech is a private school, so we bear no large grudge. (This policy appears to us to be the work of a flaming idiot.) On the other hand, Caltech does get an endowment from the government, and if any of that money goes into racist, sexist, or otherwise unfair privileges, then we do bear a grudge.

On another note, public employment, such as in government offices or for government contractors, is not such a private matter. Public employees work for the citizens, and therefore, hiring practices should not be allowed to be unfair, whatever unfair is decided to mean by the voters. Ideally, in a world where everyone is as enlightened as we are, everyone would be hired on the basis of their abilities alone; but the fact is, unfair hiring practices do exist (in both directions). However, the answer isn't to force the unfairness to be in the more popular direction, but rather the answer is in a well informed public that will take action against unfair public practices. The current situation simply shafts a lot of white males, who deserve a lot better.

To rectify this situation, we here at "Social Commentary" have endeavored to find an appropriate means of remuneration for those who have been shafted. To this end, we are pleased to announce the creation of the "White Under-Represented Male Fund." WURMF is a scholarship

SEE COMMENTARY, PAGE 11

## Games & Puzzles

### Anagrams

by Wei-Hwa Huang

Simply put, an anagram is a rearrangement of the letters in a set of words so that they form another set of words. The first anagrams we were exposed to were probably known as "jumbles," usually mixed up letters that we had to rearrange into a word. For instance, if you were given REINTRP, you'd have to rearrange the letters to get PRINTER. Sometimes the letters could rearrange into more than one word: DLUCO might be CLOUD, but it also could be COULD. In fact, it would probably be much more elegant if we could just drop the meaningless jumble and ask for an anagram of CLOUD, discounting CLOUD since that's what we started with. This can be pretty impressive (PERMISSIVE) with long words, although there is still an "elegance" factor: DELICATESSEN-DELICATENESS, although longer, is not as interesting as IMPORTUNATE-PERMUTATION or ENUMERATION-MOUNTAINEER. Short words are easier to rearrange. An old Bloom County strip had the characters anagram their names, creating the gems MILO-LIMO and OPUS-SOUP.

Unfortunately, one word to one word anagrams are quite limited and run out quickly. Puzzlists came up with one word to multi-word anagrams, or vice versa: RENT VALE is RELEVANT, for instance. Such tasks often appear in cryptic crosswords, also known as British crosswords. It's much more interesting if there's a semantic connection: your PROBLEM IN CHINESE might be quite INCOMPREHENSIBLE; a description of THE MONA LISA might be NO HAT, A SMILE; and our social

commentary on THE NUDIST COLONY might be that they have NO UNTIDY CLOTHES.

In fact, ardent puzzlists have often complained that dictionaries give very little help in solving anagrams, since the normal alphabetical arrangement doesn't help. Some people even want our dictionary to contain anagrammatical cross references; but then what would you do in a multi-word to single word anagram?

Instead, some genius came up with the idea that we sort all the letters in the word first, and then we could create the dictionary. So if you were given RAW RED, you would sort the letters to get ADERRRW, which you could look up and see DRAWER, REDRAW, REWARD, or WARDER, one of which would be your one-word anagram. Unfortunately, most of these dictionaries are printed in the U.K., and it is difficult to get a copy in this country.

An interesting question might be: what word would come first, and what word would come last in our dictionary? Let's just restrict ourselves to seven letter words for the moment. For the beginning, ALABAMA is a clear winner, but if we disallow proper nouns, then we'd probably resort to BANDANA. And if you don't want variant spellings, I'd just have to give you ALMANAC. But if you knew the word ABAXIAL, a term in optics that just means "away from the axis," it would be the technical winner. For the end of the list, it's harder to tell; we have to avoid having letters at the beginning of the alphabet at all! I'd go for SUPPORT, but SURTOUT, although much less common (it refers to an close-fitting overcoat popular about 100 years ago) is the winner

in this category. In a different category, the chemical elements competition is won by PALLADIUM at the start and KRYPTON at the end. The possible problems are endless.

## Contest Win \$10!!

What is the first legal 14-letter word in an anagram dictionary (see above for more detail)? To be legal, the word must be found in Webster's New World Dictionary of the American Language (second college edition) and must be listed in boldface or be an inflected form of a boldface entry. Comparative and superlative adjectives are allowed only if specified after a boldface entry; but noun plurals and verb forms are allowed if clearly implied by patterns of other words. Only words using the 26 letters of the alphabet will be accepted. A submission is not legal if it is (1) is composed of two or more component parts separated by a space or only appears as such a component part; (2) contains any apostrophes, hyphens, or periods; (3) is capitalized; (4) is an abbreviation. Ties will be broken by random draw.

To submit: send your word by e-mail only to [gp@tech](mailto:gp@tech), and how you may be contacted by phone and by mail. Entries must be received by April 22, 8:00 P.M., 1994.

SOLUTIONS: THE LYX GADGET

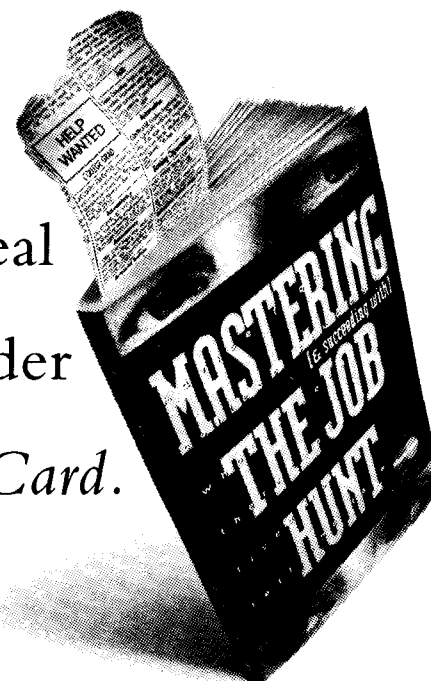
Marvin Gardiner is quite angry at many of you for mistaking him for the renowned puzzle master Martin Gardner. He is angry at the rest of you for mistaking him for the Monopoly property Marvin Gardens. (It's actually known as Marvin Gardens in Atlantic City.) In fact,

SEE MARVIN, PAGE 11

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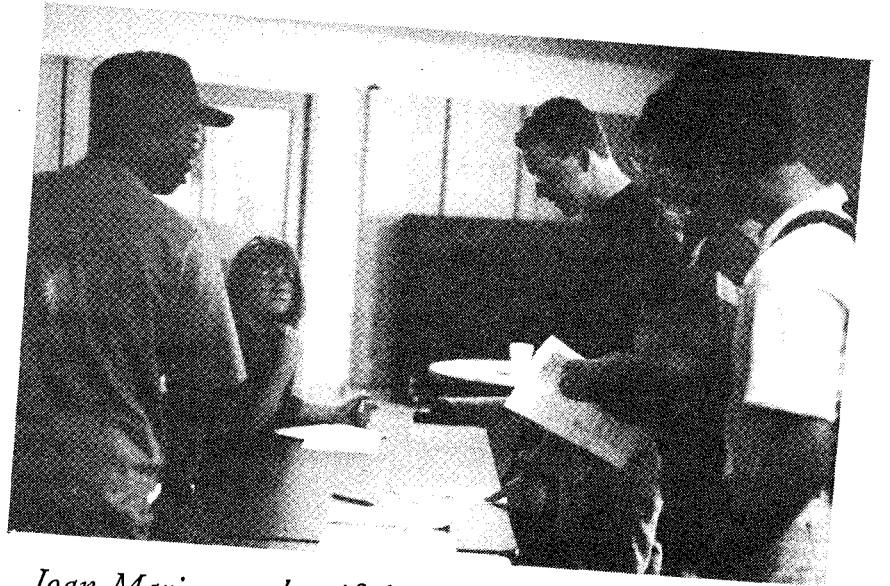


# An Exclusive *California Tech* Scoop: Prefrosh Life

(Don't tell the Prefrosh About This!)



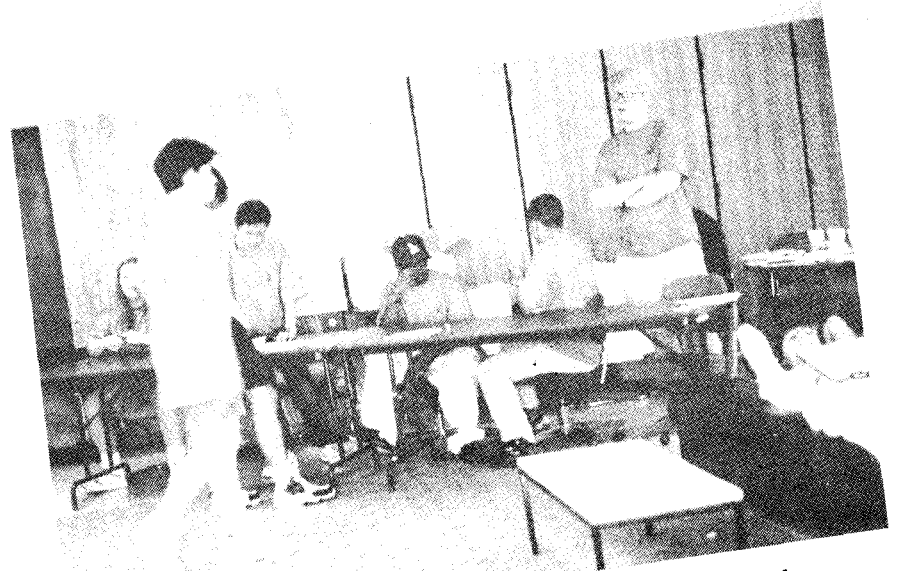
*Future victims (prefrosh) get their first glimpse of Caltech. Unfortunately, they fail to realize that the Shuttle trip is only unidirectional.*



*Joan-Marie wonders if these prefrosh are actually our best hope for the future as the newcomers pick up their registration and tax forms.*



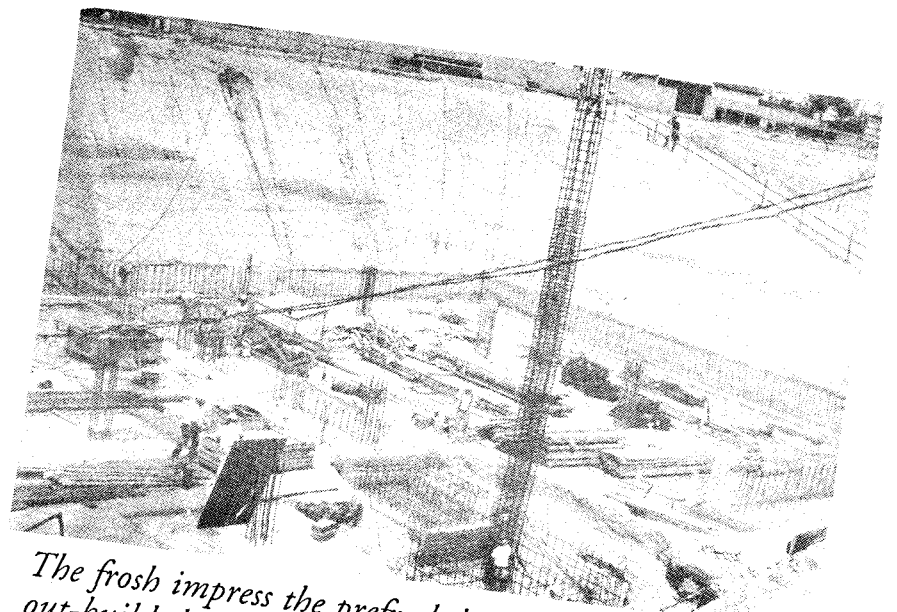
*The prefrosh get their first taste of true beuracracy as the registrars check identification for a classified government operation.*



*Zack tries to pick a fight with a prefrosh but soon realizes the error of his ways.*



*Ditch Day construction begins unnoticed by naïve prefrosh. This is what real Techers can do with an Erector set and a hard hat.*



*The frosh impress the prefrosh by staging their effort to out-build the seniors in one of the regular alley challenges.*

# Bridge Without Sam

## Torture Bid

by Jeff Goldsmith

Sometimes partner makes a bid that I have never encountered before. In most of my partnerships, I try to make a few rules about undefined sequences, "meta-treatments" if you will. Some examples are "ASBAF" (All Strange Bids are Forcing,) or "If you don't know what it is, it's natural." But what if I don't know what it is, except that it's not natural? The best rule for at-the-table actions is to choose a safe action if possible unless the Torture Bid yields only one logical interpretation. Of course, what is logical to one partner is usually nonsense to the other.

Playing in a cash prize tournament in Las Vegas, we are vying for the top prize when partner decides to test me. With both sides vulnerable, I deal myself

♠AKQJ63 ♥AQ97 ♦86 ♣10

I open 1♠, LHO overcalls 2♥, and partner makes a negative double. RHO passes and I happily bid 3NT. Partner thinks for a little while and emerges with 6♥. Clearly, this action does not fall under the aegis of partnership agreement, so I have to try to interpret his bid and do the best I can.

First off, is it natural, revealing a psyche? I have 16 HCP and partner is bidding a slam, so that overcall seems somewhat dubious. The action at the table does not seem right for this interpretation, though. RHO looks Yarborough-bored and everyone seems surprised by partner's last call. More importantly, if he really had enough to bid a slam in hearts, he would not choose to double on the last round. He'd either pass or bid notrump himself. He is not the type to double for penalties when the double is takeout. He is more the sandbagging sort.

If 6♥ is not natural, then what is it? He must want me to make some choice between slams. From his perspective, it is possible that we should play any strain. We play that bids of 5NT in slam auctions are usually "pick a slam," but that doesn't apply here, since I would assume that 5NT is a natural quantitative raise without express agreement otherwise. Can he be asking me to pick a minor suit grand? I doubt it; he'd try 4♥ or four of a minor first. We play that four of a minor is forcing if 3NT is playable, which it obviously is, so he could start with 4♦. And if he really had a monster minor two-suiter, wouldn't he begin with 3♦ over 2♥, rather than the ambiguous negative double that I might even pass? No, he cannot be looking for a minor suit grand.

How about a grand slam? Maybe he has a void heart and wants to know if I have stuff outside of hearts? 5♥ should probably be Exclusion Roman Key Card Blackwood on this auction, but we have never considered it before, so he might well be afraid to try it. That's a possibility, but I doubt he'd risk a negative double with a good hand and a heart void.

Should 6♥ here replace the 5NT "pick a slam" convention? Maybe, but without discussion, I cannot assume so. He must have some specific meaning that he cannot communicate in any other way.

Oh, well, the round is ending and we have not even played the hand yet. I have to make a decision now. I have no idea what he is doing, so I'll try 6♠ because that ought to be a making contract. I cannot imagine that it will be a bad score and I give up trying to get the best score.

Dummy appears with

♠542 ♥4 ♦KQJ3 ♣AKQJ7

They lead the ♦A and continue the suit. When no ruff occurs, I claim and we end up finishing the round on time after all.

Looking at his hand, I am still puzzled as to the meaning of 6♥. He explains that he wanted me to make a choice between 6♠ and 6NT by looking at my heart holding. If I had something like ♥QJ10x, he wanted to play 6♠, but on the actual holding was hoping I'd bid 6NT. Maybe he is right, but I do not think I would ever have the confidence to bid 6NT at the table on this sequence. At least no harm was done.

A week later I'm still thinking about this hand. I think my action at the table was clearcut because I knew that he didn't know that I'd know what his bid meant. Therefore, safety first. But what should 6♥ really mean?

Let's consider his alternatives. 5NT is not "pick a slam" on this auction; I think that is clear. Since this is non-suit-agreement auction, a "pick a slam" bid is needed. I think that should be 5♥, or, in general, a jump cue or a jump to an impossible suit at the five level. To force a choice between spades and notrump, the 5♥ bidder corrects six of a minor to 6♥. (Wrong choice, partner.) Correcting to 6♠ would suggest that the choice was between the other minor and spades. Indicating the further choice must suggest notrump.

So should 6♥ be an immediate choice of grands question? I don't know; partner can ask for a choice of smalls and raise. But sometimes the choice of which grand is different from the choice of smalls, in particular when partner has a heart void. With ♥KQx, I'd pick 6NT, but not 7NT. So, 6♥ must be a choice of grands with a heart void. Probably.

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

# The CETF News Dispatch

by the Caltech Environmental Task Force

We're back—due to a confusion over the submission deadline, the CETF column couldn't be published in *The Tech* last week. Also, due to understandable space limitations in *The Tech*, we've had to reduce the size of our column. We hope in the near future to begin a monthly newsletter, to supplement the weekly column in *The Tech*.

Please send in your environmental questions, concerns and comments to: [cetfers@cco.caltech.edu](mailto:cetfers@cco.caltech.edu), or to CETF, MC 251-18. CETF meets every Monday at noon in the Judy Library (110 Baxter Hall). All are welcome!

## EARTH DAY

Today, at Winnett Quad, from noon to 2:30 p.m., Caltech will celebrate Earth Day! Stop by and eat veggie-dogs and free cake, play "Sort The Recyclables," watch JeopEARTHdy and the one and only Tournament of Environmentalists, and, most importantly, learn all about environmental issues affecting YOU. Many outside organizations will be present, including the Sierra Club, the United Nations Association, and Environmentally Responsible Investing. Earth Day is sponsored by the Caltech Y and CETF.

## A Liberal's View of Homosexuality

*The following article was commissioned as the liberal point of view in a two-sided social commentary. Unfortunately, the conservative view was not available at press time due to unforeseen circumstances, and this article now stands alone. -eds.*

by Patricia M. Schwarz

I have to admit - I am a liberal. I think I must have been born a liberal, because my earliest political instincts were liberal. I know by now that I will very likely die a liberal.

That said, I have to add that there are many conservatives out there who have infuriated me over the years, but in a manner that I enjoyed. They infuriated me with wit, with facts, with intelligence, with tolerance for the views of others. Whether or not we will ever agree about anything, I still hold those particular conservatives in the highest regard.

And, confidentially, I admit - our nation needs both sides in balance, conservative and liberal.

But religious conservatives do not number among the lengthy list of conservatives whom I admire. They came late to the game in my politically conscious life. The Republican Party didn't become seriously infected with religious conservatism until after Reagan accelerated the discourse of nuclear Apocalypse into frightening proportions in America. Since that era, I, a Democrat, have actually mourned the loss of the old Republican Party.

Why can't I be as generous with religious conservatives as I am with the secular variety?

The first reason is that I have dedicated my life to the study of science, and I strenuously object to religious conservatism's educational agenda of smearing the boundary between religion and science in the public school system through their campaign for so-called "scientific cre-

## T-SHIRTS FROM SODA BOTTLES

Ever wonder what happens to the one liter soda bottles you toss in the recycling bin? Some of them might be used to make polyester for T-shirts! You can buy a 50% recycled cotton, 50% soda-bottle polyester T-shirt at Earth Day. Or, you can win one by submitting the best suggestion for something we can do at Caltech to improve the local environment.

## FEATURED UPCOMING EVENT

At 4:00 p.m. this Sunday, April 17th, Zero Population Growth will host another showing of the Southern Utah Wilderness Alliance's "Imagine." Don't miss this outstanding slide show of spectacular and pristine wilderness.

## ECO-FAIR

This past weekend, members of CETF visited the Eco-Fair at the LA Convention Center. A wide range of information and "green products" were available. Some companies distributed entire catalogs of solar-powered products, of shoes made entirely from recycled automobile tires, or of children's toys made of 100% post-consumer plastic.

Of particular interest were the prototypes of electric cars (from

Calstart and Ford), which were available for test-drives. CETF might consider being a test site for an electric car, if we can raise enough interest - write to us!

Calstart is a state-wide, non-profit organization dedicated to creating advanced transportation technologies for California. To this date, they've created over 140 electric vehicle charging stations state-wide, run an electric transit bus in Santa Barbara, and will help run the nation's first electric school buses later this year.

If you're interested in seeing all the information CETF acquired from Eco-Fair, write to us, or check out our library (see below), which will start up as soon as we make arrangements with the Y.

## THE CETF LIBRARY

CETF is working on establishing a resource library at the Caltech Y. There, you will be able to find books about the environment, the "Green Pages," and catalogues for green products. Donations are welcome!

## NEXT WEEK

Next week the CETF column will address the tricky issues surrounding the Transportation Survey. Write in with your questions (see the beginning of this column for addresses).

ationism". "Creation science" can be preached quite adequately in the churches and Sunday schools, and it should be taught only in those places, not in the public school system among children of all religious and secular backgrounds imaginable.

The second reason I have trouble being generous towards religious conservatism is because of their active organizing against gay and lesbian rights.

I don't want to rehash the entire Colorado battle to forbid local ordinances prohibiting discrimination against gays and lesbians. I refer those interested in the facts of this issue to read the legal opinion written by Judge Bayliss of the Colorado State Supreme Court. In that detailed legal brief, Judge Bayliss repeatedly finds the religious conservative organization Coloradans for Family Values in grave error on points of fact regarding, among other things, the threats to school children posed by gay and lesbian teachers and the implications of non-discrimination laws for the rights of private businesses.

The CFV, and organizations like them, persist in ignoring the facts that have been presented to them showing that if gays and lesbians should not be school teachers, then by their very own logic, neither should heterosexuals.

As for the children's book "Heather Has Two Mommies", this book was not written to teach children how to become lesbians. It was written to help the children of lesbian parents become better socialized into a potentially hostile peer environment.

It's difficult to explain to little Timmie why Heather has two mommies. This book was written to help him understand in a gentle, non-threatening manner.

Whether or not we agree with

Heather's parents' status as lesbians - do we really want little Heather to be ostracized, made fun of, and possibly beaten up on the playground because her friends don't understand her family?

The campaign against "Heather Has Two Mommies" has been mean-spirited and has sacrificed the socialization experiences of all children to the hatred of small but vocal minority of parents for parents of some of the other children.

Religious conservatives claim they derive their mandate to run strident political campaigns against gays and lesbians from the word of God. But this mandate stems from their own chosen reading of the Bible. Each religious organization falling under the category of "Christian" has its own chosen interpretation and enforcement of Biblical passages. Christianity has endured for 2000 years and spread from a tiny cult in Israel to cover the globe precisely because the Bible has a little bit of everything for everyone—wrapped around a small core of beautiful and enduring principles. The chaff is negotiable, but the wheat is eternal.

The ideas of pacifism, tolerance, and forgiveness are the Christian values that I cherish the most. The ideas of homophobia, violent revenge, and vehement misogyny are the values condoned in the Bible that I choose to forget.

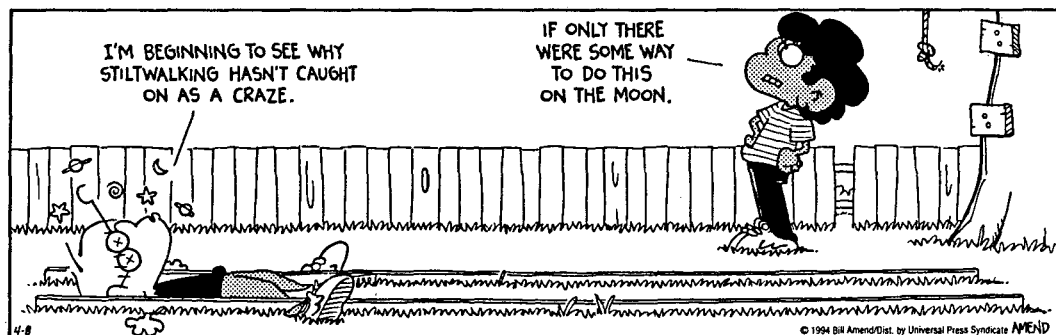
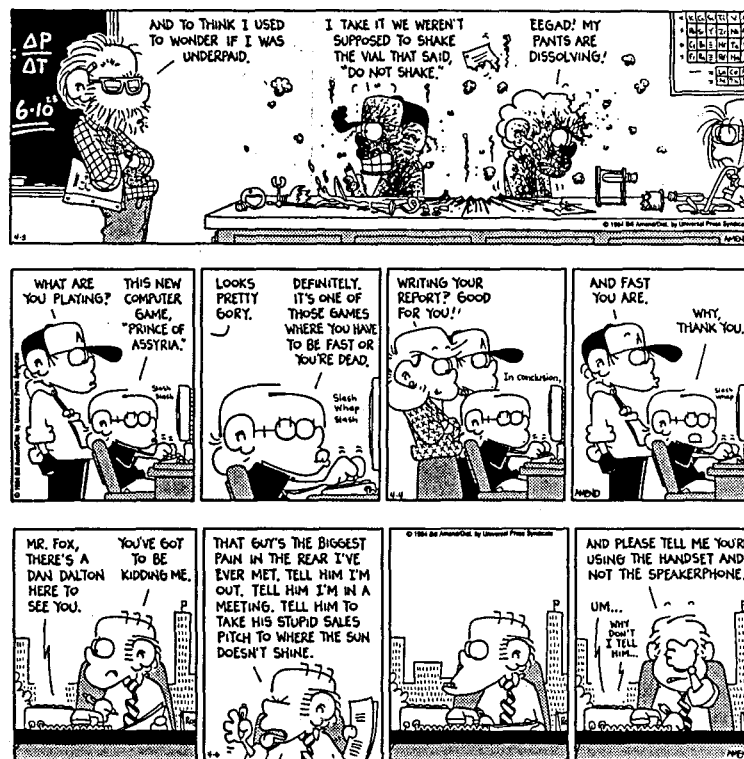
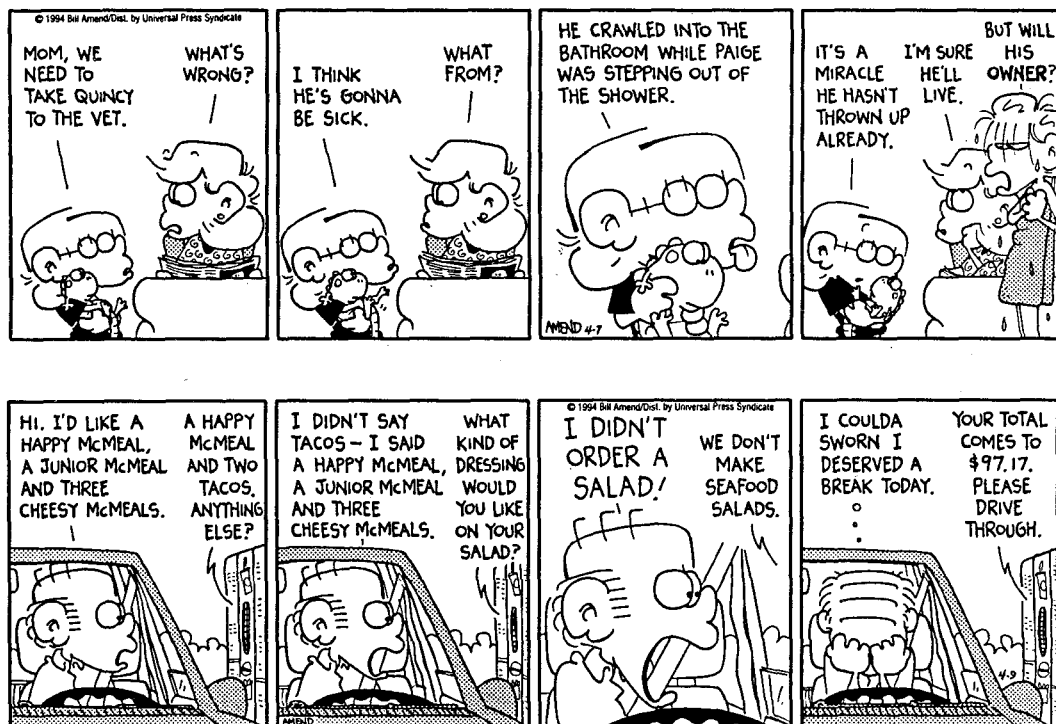
The family is as important to me as to any religious conservative. But my own family was destroyed by ordinary heterosexual domestic violence. Ordinary heterosexual domestic violence is the most prevalent violent crime in America, and the leading cause of serious injury to American women.

Why don't religious conservatives focus their enormous energies

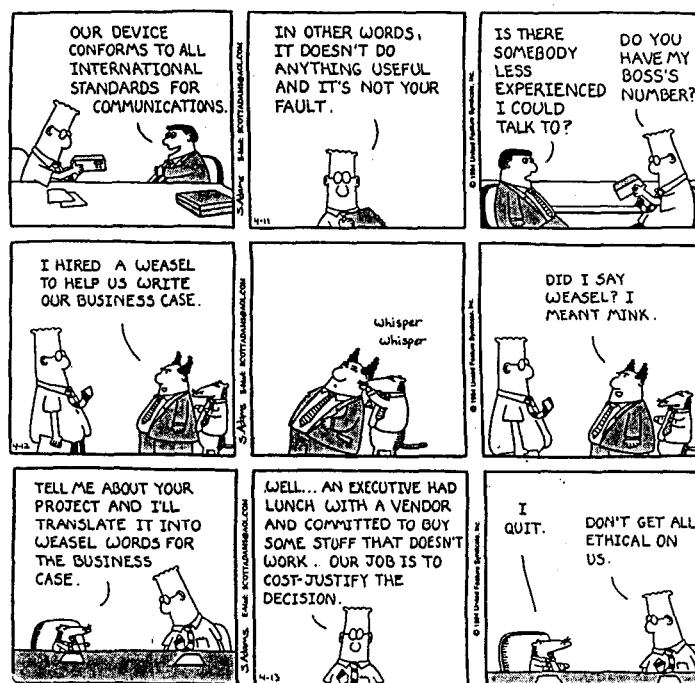
SEE LIBERAL, PAGE 11

# FoxTrot

by Bill Amend



## DILBERT® by Scott Adams



## Jim's Journal

by Jim



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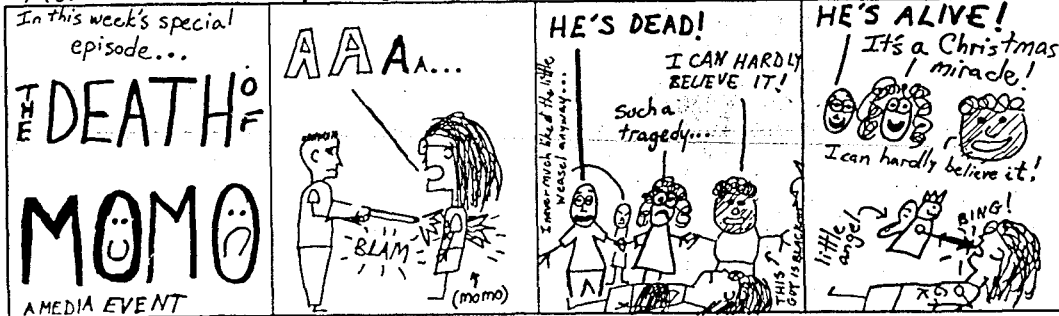
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MOMO

by Mike B.



## ASCIT NEWS

- The Board of Directors has made the following appointments:

Election Chairman - Cedric Hobbs

Movies Chairman - Mike Coward

little t Editors - Michael Radford

Laurent Stadler

Jennie Yoder

little t Business Manager - Steven Skovran

Big T Editors - Jian Zhang

David Wang

Big T Business Manager - Laura Brady

Totem Editors - Lucy Chen

Kevin Du

Michael Ru

Thanh-Nga Tran

Thank you to everyone who applied.

- A position on the Presidential Staff has opened. The responsibilities of this position are to assist the Board of Directors with the minutes and other clerical duties. This staff officer will attend the weekly Wednesday BOD meetings, which start at

7:30PM, and take minutes of the proceedings. He will help draft and publish the final version of the minutes. Undergraduates with an interest in student government are encouraged to apply. If you are interested or would like more information, please contact the ASCIT Secretary at sec@ascit, x1402, or Secretary, ASCIT 64-58.

- The IHC requested and received two copies of the little t for reference use at the gym. They will be available should there be confusion over the official interhouse rules.

- Special thanks to the ASCIT Executive Committee for their work. Their latest decision is that the petition on the ASCIT Formal is valid.

- The Board of Directors would like input on the practice of funding the general budgets of clubs. Recently, ASCIT has been reevaluating its role in this area. This topic will be discussed at this Wednesday's BOD meeting.

- Please bring 15 copies of handouts to meetings of the Board of Directors.



# Dr. Hofmann's Bicycle Ride

by Ernest Tomlinson

Fifty-one years ago, a chance discovery was made in a laboratory in Switzerland that has since then changed many lives.

In 1929, a young chemist, Dr. Albert Hofmann, began working for Sandoz Pharmaceutical Company in Basel on new derivatives of the ergot alkaloids in the hopes of finding and synthesizing compounds with useful pharmacological effects. In 1938, Dr. Hofmann synthesized the 25th compound in his series of derivatives—the diethylamide of lysergic acid—Lysergsä ure-diä thylamid, or LSD-25. He hoped that this compound would have respiratory and circulatory stimulant properties. It was tested on animals, and was found to display no interesting effects. LSD-25 was then forgotten for five years.

In the spring of 1943, Dr. Hofmann decided to again synthesize this compound, LSD-25. There was nothing definite to base this decision to expend research time on an apparently uninteresting compound, but for some reason, Dr. Hofmann felt that there might be something else to find. So he repeated the synthesis. During the final step—purification of LSD-25 tartrate by recrystallization—he began to feel odd. In his own words:

Friday, April 16, I was forced to interrupt my work...and proceed home...I lay down and sank into a

not unpleasant intoxication... characterized by an extremely stimulated imagination....

Dr. Hofmann, a careful and meticulous chemist, could not guess what had caused this. Guessing that he had absorbed minute quantities of his LSD-25 through his skin during the recrystallization, he prepared an aqueous solution of the amide, and drank a volume of it, equivalent to 250 micrograms of the compound—the smallest amount, he thought, at which it would have any effects whatsoever.

His notes tell us what happened next.

4/19/43 16:20. ...0.25 mg tartrate....taken diluted with about 10 cc water. Tasteless. 17:00. Beginning dizziness, feeling of anxiety, visual distortions, symptoms of paralysis, desire to laugh. Supplement of 4/21. Home by bicycle. From 18:00-ca. 20:00 most severe crisis.

"I was able to write the last words only with great effort," he later recounted later.

After his profoundly moving and, at the time, extremely frightening experience, the exhausted Dr. Hofmann slept soundly and woke up, as he reported, refreshed and without a hangover. That day, he informed his boss, Dr. Arthur Stoll,

of his amazing discovery. By the end of the week, all of Dr. Hofmann's colleagues at Sandoz knew of the existence of this most powerful of psychedelics; within another five years, with Dr. Werner Stoll's publication of the results of the first human trials of the drug, the world knew of it.

Today, fifty-one years later, the debate over the merits and dangers of LSD-25 that started with Dr. Hofmann's experiment continues unabated. The true facts - and much misinformation - fly thick and fast. Some researchers and advocates see great therapeutic potential in LSD-25 for treatment of psychosis and other mental conditions. Some, especially the Drug Enforcement Administration, view LSD-25 as being deadly and as bad as cocaine or heroin. Still, others, perhaps less responsibly, see LSD-25 as harmless and recreational. The debate will probably never be completely resolved. Whatever you may think—whatever decision you have made—let us hope that it was well-informed, rational, and thoughtful.

Something to consider on this coming nineteenth of April, more than half a century after Dr. Albert Hofmann's serendipitous discovery, on his bicycle ride home from a lab in Basel...

The facts for this article were taken from *LSD, Mein Sorgenkind* (LSD, My Problem Child), by Dr. Albert Hofmann, distributed by St. Martin's Press.

# Techers Attend Student Leaders Conference

by Gypsy Achong, Angie Bealko, and Rebecca Green

Once upon a time, four beautiful (yeah, right - eds) young women struck out on a journey. A journey to find a deeper meaning in life. A journey to explore all of the opportunities the world had to offer them. A journey to get away from Caltech in the middle of finals!! On June 3, 1993, three of the brightest young scientists in America set out to fly across the country to a world unknown. A city known to some as the political mecca of the world. It was D.C. And it was theirs for five days to conquer.

We attended the National Conference for Women Student Leaders in Washington, D.C., as representatives of Caltech to learn more about the growing influence of women in society. During the five days we spent at this conference, we discovered that Caltech has the opportunity to make many strides in creating a comfortable and encouraging environment for women. Many women at Caltech have felt ostracized, alone, and confused at one time or another. We feel that a supportive environment could help to overcome these negative feelings. One of the main reasons we went to this conference was to figure out how we could change the atti-

tudes of the entire Caltech community towards women and the issues that surround them. Most of the women at the conference were women's studies or liberal arts majors. At first, this was very discouraging and disconcerting to us. But as we got a chance to talk with more of the women, we found that coming from diverse backgrounds, we had very different experiences to share.

Our favorite official function was the Women of Distinction Ceremony, held the first evening that we were there. Traditionally, women have been excluded from historical accounts so there are few role models for young women. The purpose of this event was to introduce us to women who are making a difference in modern society. We all agreed that Antonia Novello, the former Surgeon General of the United States, was one of the most dynamic and empowering women we have ever heard speak. She was the first woman and Hispanic to hold this position. One thing that she stressed was the need for women to make sure they receive the health care they deserve, in particular, health care which is specific to women's needs.

We had the opportunity to choose from many different sessions to attend throughout the days. The most interesting ones were "Young Women in Activism: A Lesson in Student Organizing," "Help! What's

to be married upon her twenty-first birthday. The king, as is the rule in such situations, sent out criers throughout the land: "Marry the king's daughters!" they cried. "Marry into political stability and unrivaled wealth!"

Suitors shot up from their chairs in front of their TVs, saying to their

Wrote with this Group? Effective Solutions for Working with Groups," and "What's Next for Women in Politics." As these titles point out, topics addressed ranged from leadership skills to interpersonal relationships and the ability to communicate effectively. A major goal of the programs was to give female student leaders the confidence and tools to affect needed changes and to lead in their communities.

There was also plenty of free time to explore the wonderful sites which D.C. has to offer, including the Smithsonian museums, the Lincoln and Washington memorials, and the Vietnam War memorial. It was very significant that four Caltech women were given the opportunity to attend last year's conference, as opposed to just one as in previous years. For this special opportunity, we would like to thank the Caltech Y and the Dean's Office.

The Caltech Y and the Dean's Office plan to sponsor at least one undergraduate this year for the conference on June 2-4, 1994. If you would like to attend, you can express your interest to the Dean's Office by submitting a brief written statement of interest by Friday, April 29, 1994.

Note: The Dean's Office and the Caltech Y sponsored Gypsy Achong, Angie Bealko, Rebecca Green, and Sacha Malin to attend last year's conference.

wives, "The marriage is over, dear. I'm going to marry one of the king's daughters."

And the wife responded, "Be back in time for dinner."

"OK!" the suitors screamed, bundling his personal possessions in a red kerchief.

SEE PARABLE, PAGE 10



# 75 Years Ago in The Throop Tech

## PLOT FOUND OUT AND CRIME PREVENTED

Robert T. Knapp Narrowly Escapes Getting Badly Cut

Last Monday evening, or rather Tuesday morning, Robert T. Knapp of T. C. T. learned that a gang of miscreants were plotting to trim him. They were planning to enter his room and shear off the brindle locks which have taken him years to grow.

When little Bobby heard the news he immediately went over to "Jass" Hill and tried to borrow that mighty hunter's "gat."

However, Jass was afraid to trust his gun with the little fellow, so Bobby went back to the Dorm, and locked himself in his room so securely that the miscreants could not get in.

Nevertheless we heard a rumor that this same gang of high-blinders will get Knapp yet, unless he overcomes his aversion to barbers.

## 25 Years Ago in The California Tech



# Ways to Avoid That Two Year "Vacation"

by Dodge

As all the local third term seniors are about to have to go face the world (at least in the person of that universal hate figure General Hershey) there are a few words of wisdom that should be passed on from those who have avoided going before. If your glasses have a correction greater than eight diopters in either lens, or your blood pressure is over 140, you have a legitimate out. Beware, however, of the Los Angeles physical exam people—if you have marginally high blood pressure they will keep taking reading until they get one that is under 140. You can have your physical transferred elsewhere.

If you don't have a legitimate way out immediately, there are a few handy tricks. Braces are expensive and a nuisance, but you can get a I-Y if you have them because they require medical attention that the army does not want to have to provide. If you have a real need for orthodontic work, this is a good time to have it done.

If you're considering the possibilities of applying for conscientious objector status, DO IT NOW! The people to contact for help and counselling are the American Friends Service Committee on North Fair Oaks. They can be found in the phone directory. The campus YMCA can also give a lot of help and information on draft problems, and

put you in contact with other people who can help. CO status does not affect any deferment you might have for physical reasons.

If you're trying non-legitimate dodges for your physical, be careful. People who are caught are frowned on very vigorously. If they are suspicious that you are taking some sort of drug to raise blood pressure or screw up your metabolism generally, they may keep you at the examination center for three days to let it wear off. If that doesn't work for them, they can always call you back for another physical. The Selective Service has also been known to change their physical requirements—taking thyroid capsules, which used to be an automatic I-Y, is no longer a guaranteed exemption.

All this information is not guaranteed true for any particular draft board, they have the authority to bend regulations a certain amount. This is true especially for such things as II-A deferments—some boards are fairly free with them, others essentially refuse to admit the existence of essential occupations. (One draft board back East reclassified a school teacher every summer until they finally got him at the beginning of September one year.)

And if you prefer cold weather to the tropics, your friendly local Canadian embassy has information on immigration.

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# Student Government at Caltech: An Opinion

by Tatsuya Murase

## Student Government

What do we want out of student government at Caltech? Depending upon personal beliefs, the answers will vary widely, but certainly there is a consensus or compromise that students can come to about what student government should or should not do.

## Why Student Government?

The central issue that needs to be addressed is why we need student government at all, and if we do, to what capacity. Certainly, the primary reason for student government's very existence is that student government is to be the students' representative and liaison to the administration. There are secondary tasks that student government should address: pooling and reallocating student resources responsibly, distributing necessary publications, and making the Institute generally a better place to live and work.

## Does the Government Work?

In Caltech's scheme of things, we have a unique structure for government: The "Three Pillars" of government, as I've heard it referred to at times. These pillars being the Board of Control, the Interhouse Committee, and ASCIT.

The Board of Control's purpose is clearly stated, and the IHC oversees issues that concern the student houses collectively. However, ASCIT's claim is that its mission is to be the representative of the student body to the administration and to outside world. Does it fulfill the purpose of student government outlined above?

This question is one that obviously cannot be answered simply or succinctly. My belief is that students

feel that ASCIT has not fulfilled the primary task of government very well, thus the growing discontent among its constituency. Many students have a general feeling that the Board of Directors are more concerned about the trappings of office rather than dealing with substantial problems that students are concerned about. More serious is the sentiment among students that ASCIT does not represent them or their concerns, and hence, it is not a legitimate representative student government. One can cite the weekly ASCIT BOD minutes as examples of a student government reacting to situations brought before them. Representatives should be charged with anticipating what the major concerns of students are by at least asking a significant fraction of the students what problems and concerns they have with the Institute. Is this the result of simple miscommunication, or are we asking more out of this structure of student government than can be expected?

If the cause is simple miscommunication, there are many problems with the current structure of ASCIT that lead to many of the above assertions about its relative incompetence. Currently, there is no viable way to provide useful input to the members of Board of Directors. We may have to expect more out of the Directors in the future, such as expecting them at dinners in the houses to do informal polls on student sentiments about various issues. Office hours have the drawback in that office hours can only sample a minority of student sentiment.

However, such gestures do not and cannot quell the deep seated view that ASCIT is nothing beyond the money it doles out to various clubs and organizations. A good number of students feel that ASCIT has basically lost touch with the student body. The ASCIT BOD might as well be in Washington, D.C., to many of us. Others see ASCIT as a body with no real power on a campus run by and for the faculty, and hence, cannot be a meaningful vehicle to change the campus significantly. Simply put, ASCIT suffers from the same problems that high school student body governments suffer from: lack of respect from the constituency, and lack of power to cause significant changes beneficial to the student body.

The results of the recent student body election are not encouraging: the current ASCIT president won with approximately 180 votes. This is not a reflection on the person but rather on the system that brought her to power. For example, why are there no ballot boxes at the "major" off-campus residences (i.e., 150 Chester

and 1170 Del Mar)? Certainly, if it takes approximately two hundred votes to elect someone ASCIT president, then aren't the approximately one hundred people living at those residences alone enough to significantly change the outcome of such elections?

The recent scandal involving unprecedented large-scale funding of Ruddock's OPI gave many in Dabney House the impetus to create the framework of "Dabnicorp," an organization whose primary function would be to allocate the money of its members, with the key point that its members no longer pay dues to ASCIT. Many in Dabney House hold the sentiment that ASCIT, through its campus-wide elections, managed to consolidate a North House majority on its Board of Directors. They feel that the BODs of years past have not been receptive to Dabney's complaints and problems; thus, they feel compelled to claim that ASCIT does not represent them in any meaningful way, paving the way for their attempt at secession. Such major mishandling of members' dues and misunderstandings of conflict of interest should be taken seriously. In the real world, similar events can destroy careers and usually entail recall petitions by angry constituents. The OPI affair indicated to many people that the ASCIT BOD did not exercise caution when reaching their decision to allocate such a large sum of funds to OPI.

Moreover, these student complaints are compounded by the fact that the faculty can easily ignore ASCIT (or any other student representatives) with impunity and proceed with their own plans over our protests. Such examples of breakdowns in Caltech's congenial, informal atmosphere where our opinions mattered are remembered and cited by many upperclassmen, and represent a symptom of a greater problem: Why doesn't our voice affect beneficial change? I believe it is a problem with many causes, and ASCIT has not provided suitable solutions to it despite perennial promises to do "something" about the communication gap between students and the rest of the Caltech community.

## Why ASCIT?

Why should we have a such a large, formal structure if its effectiveness is very small? Can ASCIT really do a better job at bringing the our grievances to the administration?

ASCIT, presumably, has existed since the beginnings of this Institute, and therefore a formal notice in its bylaws that it is the "official" student body representative has seemed unnecessary for over seventy years. It is quite clear, through its bylaws, that ASCIT is a corporation. Many of its bylaws deal with financial matters, electoral procedures, and the definition of the many offices that exist within the framework of ASCIT.

Is this student government? It seems quite evident, despite whatever assumptions the founders of ASCIT had concerning their purpose, the bylaws in place amplify the corporate nature of ASCIT more than anything else. Not once does the verb "represent" appear in conjunction with the noun "student body."

In short, upon observing the current stature ASCIT holds among the eyes of undergraduates and read-

ing through the bylaws by which ASCIT operates, the answer becomes exceedingly clear: This is not representative student government. ASCIT is a nonprofit corporation first, and since it is bound by its bylaws, it must operate with financial matters as its foremost priority. Simply put, the ASCIT bylaws lack the language and the major guiding principles that can allow ASCIT to make the claim of being the undisputed representative of the undergraduate community. With movements such as Dabnicorp, such a claim is definitely disputed.

The bottom line is this: ASCIT is acting as a representative of the student body with almost no mandate to do so. Very few people know of the activities of ASCIT beyond its allocation of funds and ASCIT Donuts. I believe that a firm mandate must be established before any body can claim to represent such a wide array of students. ASCIT has gotten out of touch with the sentiments of the student body, and it is not considered a legitimate representative by a significant fraction of the student body—under such circumstances, it cannot fulfill the primary purpose of student government: representation to the administration. Serious thought should be undertaken to determine exactly what the structure of student government should be, and find ASCIT's place within that structure.

## Prefrosh Parable

FROM PARABLE, PAGE 9

Thousands of men with red kerchiefs—on their hands the telltale marks made by recently removed wedding bands—gathered on the lawn in front of the castle, entertaining themselves with roasted animals and torch-juggling. Fifes were played. On the eve of the daughters' twenty-first birthday, the king, dressed in a silk bathrobe (on the front, "King," on the back "24"), emerged sleepily onto his balcony. He observed to his queen, "They all look married."

"No!" the suitors cried out in unison. "We're all single!"

The king asked, "What are those marks on your fingers?"

"Nothing!" they responded.

The king mused. "Today," he announced after much thought, "is the eve of my daughters' twenty-first birthdays. You must here prove your worth and test your skills against one another so that three of you are shown to be worthy. All right?"

No one objected.

The first test was horse-riding. No horses were to be had, since the previous year the kingdom had dragged itself (as if by wild horses) through a serious glue shortage. The situation was sticky. The king improvised, "You'll use Volkswagens."

It began raining; none of the suitors knew how to drive. The suitors, in their adorably miniature automobiles, slipped and skidded over the roads of the kingdom—they had originally been laid down for horses. Accidents could, and did, happen. Many were killed. Most were killed. All were killed, actually, in a huge pile-up—except one.

And the king, as per his promise, married the three daughters to this one suitor. Growing mad trying to tell them apart, the suitor ran back to his wife and never left the TV chair again.

This parable is for you, prefrosh. Uncover its secret, and you uncover the secret of Caltech.

## Critic Lectures on Media's Portrayal of Women

FROM KILBOURNE, PAGE 1

now on some type of diet, and one in five women has an eating disorder, the most common of which are anorexia and bulimia. In addition to these health problems, there are now more women smoking than men. This is partially due to the fact that cigarettes can be used to control weight.

Kilbourne also discussed the topic of violence in advertising. She believes that this problem exists because of the stereotypes of males. The stereotype which is propagated is that males are supposed to be invulnerable, unfeeling, ruthless, and successful (money equals success). Twenty years ago, one in thirty-two advertisements contained some form of violence against women. Now the number is closer to one in eight. This type of advertising leads to the idea that the victim is to blame for the crime that has been committed against them. In addition, domestic violence causes more injuries to women than all other leading causes of injuries combined.

Another thing that was mentioned was how many advertisements only show parts of women's bodies. Because they do not show the whole woman, or the whole person, the woman becomes a conglomeration of pieces, a thing. Kilbourne said, "Turning the human being into a thing justifies violence against them." This mindset is the basis for all types of discrimination.

After the speech, there was a good amount of discussion. The topic was brought up about whether ads were a reflection of society. Her reply was that advertisers very carefully chose the values that they wish to reflect. She mentioned the problem of Symbolic Annihilation, when someone never sees themselves reflected in advertising. For instance, elderly, poor, gay or lesbian, and disabled people do not exist in the advertising world. This makes these people feel less secure about the culture in which they live.

Also mentioned was the subject of sex in advertising. Semi-nude women can be used to advertise perfume, jeans, and many other products with the exclusion of safe sex and condoms. If anyone is interested in seeking facts related to sex, they are viewed as having a decadent set of morals. This also contributes to the nation's teenage birthrate, the highest of any industrialized nation.

Finally, the conversation struck much closer to home when someone asked why the women at Caltech (i.e. within the scientific community) seemed to be viewed poorly if they were to act like the "stereotypical" female. Someone else offered some commentary on how a female scientist must conform to men's standards in order to be considered a "good" scientist.

Overall, the lecture was very informative and brought many values in advertising to light. In addition, I would like to mention that Kilbourne gave a handout called "Resources for Change." It mentions various groups which can be contacted to aid in getting information on this subject or to help get rid of these problems. If you wish to obtain a copy of this list, it is available at the Caltech Y.

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Prefrosh Weekend Discussed

FROM PREFROSH, PAGE 1  
Tech when the prefrosh are gone. One student said, "[We] shouldn't make it out to be a really good place or a really bad place just based on how we feel about this place." Another said, "The duties as hosts are the duties of common courtesy." As Mr. Choi put it, "Be reasonable. Tell

the truth." Prefrosh rules and the omnipresent honor code back these seemingly obvious statements.  
The prefrosh rules are designed to make sure that prospective students are recruited to Caltech and not to individual Houses. Beyond that, they help protect the school from re-

percussions of any "unfortunate" occurrences. While typically viewed as a good idea, many students feel that the honor code encompasses such matters and that the prefrosh are intelligent enough to make rational decisions about the Houses and their activities during the weekend.  
In the past, Prefrosh Weekend has been a good experience for all in-

involved. Whether prefrosh choose to come to Caltech or go elsewhere, Prefrosh Weekend will do its job. Through the efforts of the Admissions Office, and more importantly the undergraduate students of Caltech, prefrosh will be well equipped to make one of the most important decisions of their lives.  
Thanks go out to all the people

who provided opinions for this article. Names and House affiliations were not given in order to adhere to prefrosh rules. If you have a view or opinion you wish to express about prefrosh weekend, the Admissions Office encourages you to write them e-mail at [prefrosh@admissions](mailto:prefrosh@admissions). Prefrosh are encouraged to send e-mail to this address as well.

Marvin's Gadget Revealed

FROM MARVIN, PAGE 5  
Marvin has just informed me that he has decided to change his name to David Algernon Xerxes, just to spite you all.

Anyway, the nine-letter word is STORYLINE. The placement of the letters are, reading from left to right, top to bottom: NSRYLEITO. The answers to the bonus questions that I know are:  
1. The seven letter perfect word is NOSTRIL.  
2. I've shown recently that all configurations reach the "all off" stage in four iterations or less. The proof is still too complicated to be shown here. Hint: look at symmetries.

What do you want to see more of in this column? Tell me at [whuang@tech](mailto:whuang@tech), [whuang@cco](mailto:whuang@cco), MSC#542, x1540, or Ricketts 44.


WURMF Entries Needed

FROM COMMENTARY, PAGE 5  
ship established by the esteemed authors of this article to be spent however the recipient damn well pleases. The fund is intended to be self-perpetuating. With this in mind, the award is equivalent to the accumulation of a year's interest (the rate to be determined by the authors) on \$100. Sorry, in the interest of expediency, compounding interest is not available.  
All interested white under-represented males in the Caltech community who feel they have been shafted should submit a typewritten essay of no more than 500 words to the WURMF explaining why they are deserving of this award. Entries must be sent to MSC #470. Please be sure to include your name, phone number, address, and e-mail (if applicable). The entry deadline for this year's award is April 30, 1994. The lucky winner will be announced in a follow-up to this award shortly thereafter.  
Author's Note: If you are not among Today's Target, don't fret. Your turn may be next!

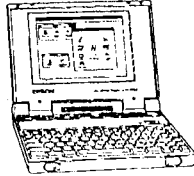
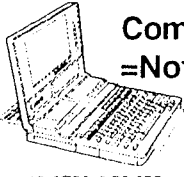

Homosexuality

FROM LIBERAL, PAGE 7  
on the problems that are truly at the root of the disintegration of the American family, such as domestic violence, rather than picking on our own gay and lesbian family members which such focused organizational power?  
After all—gays and lesbians are our own family members. Gay and lesbian civil rights are definitely included in my "family values".  
I hope that some day the Republican Party will be recaptured by my favorite old conservatives, the ones who really stood for "freedom" as well as "free enterprise". I like having them as opponents. Religious conservatism only makes me sad.

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\* denotes a new announcement.

## Notices

\* The Housing Office will be hosting an Open House on Friday, April 22 between 1:30 P.M. and 4:30 P.M. Refreshments will be served. Come and meet the staff of the Housing Office and find out more about what the Housing Office can do for you!

\* Earn \$50. The SURF Annual T-Shirt Design Contest is underway. Submit your design (a sketch will do) to the SURF Office, room 137 Beckman Institute, by April 22. The winner will receive a prize of \$50. For further information, call x2885.

Work for the MOSH—Make a little extra money and get a free dinner! Duties include: Helping serve dinners and cleaning up for the MOSH dinners. See Denton in the Residence Life and Master's Office for more details.

\* The Annual Career Development Center Student Surveys have been sent out to all graduating students. If you receive one, please fill it out and return it to the Career Development Center, Room 08 Parsons-Gates. If you are graduating and did not receive one, please pick up at the Career Center. THANKS!

## Fellowship Meetings

\* Fellowship Meeting for Juniors. If you were unable to make one of this week's sessions on fellowships, another session is scheduled for Thursday, April 21 in Winnett Club Room One at 11 A.M. until noon. This is an opportunity to gain an overview of how to apply for fellowships for graduate school in the US and abroad. Please call Lauren Stolper at extension 2150 by April 20 if you would like to attend.

\* Summer Fellowship Mailing. To sign-up to receive fellowship information over the summer current juniors and graduating seniors should come by the fellowship office before the end of this term. Please read through the fellowship guide that you will soon receive in campus mail as you will be asked to indicate which fellowship you wish to receive information on. Call Lauren Stolper at extension 2150 if you have any questions.

## Coming Events

A Volunteer Trip will be going to Tijuana, Mexico from Thursday night, April 21 through April 23. We will be working at a site for a new youth center. If you have questions or are interested, please call Chris at the Caltech Y (x6163) or Seiya (577-7973).

Coleman Chamber Ensemble Competition Winners Concert, Ramo Auditorium, near Chester Avenue south of Del Mar Boulevard, in the Center of the Caltech campus, Pasadena. 3:30 P.M. Winners of the 48th annual Coleman Chamber Ensemble Competition

will perform. Admission: \$10, students \$5. Info: (800) 423-8849 or (818) 395-4652. Individuals with a disability: (818) 395-3700 (TDD) or (818) 395-4688 (Voice) weekdays 9 A.M. to 4 P.M. Sunday May 1, 1994.

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

## Services and Classes

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

\* Caltech Anime Society is showing in Room SAC 25 on Friday the 15th Genesis Survivor Gairth, Ah! my Goddess, Bastard!, Bubble Gum Crisis, and Record of Lodoss War.

\* The Caltech Jazz Bands will play at the local jazz club The Baked Potato on Sunday, April 17, from 8:30 P.M., until midnight. Located at 25 E. Colorado in Old Pasadena, the Club has a great sound system and serves food and drinks, specializing in baked potatoes. General admission is \$8, and \$4 for students with ID. There is a two drink minimum. Friends of Caltech Instrumental Music are entitled to bring one guest and both get in free of admission. The guest soloist is Angie Whitney. For reservations and information, call the Baked Potato at (818) 564-1122. Reservations are recommended.

## Lectures and Seminars

\* Dr. Nicolas Rasmussen, Postdoctoral Fellow and Visiting Lecturer in the History of Science at UCLA; and Lecturer, History of Science, University of Sydney, Australia, will talk about "The Electron Microscope Becomes a Biological Research Tool" in the Judy Library, Thursday, April 21 1994 at 4 P.M. Refreshments will be served..

\* Genetic Testing For Breast Cancer: Women's Knowledge, Medicine's Hope—This Science, Ethics, and Public Policy seminar by Dr. Nancy Press, Assistant Professor in the Department of Psychiatry and Biobehavioral Sciences at UCLA, will be given

in the Judy Library, Thursday May 5, 1994 at 4 P.M. Refreshments will be served.

\* William Bennett Munro Memorial Seminar—Dr Michael Kammen The Times-Mirror Professor of American Studies, The Huntington Library and the Newton C. Farr Professor of American History, Cornell University. "Transformations of American Culture, 1920-1960: The Critics' Perspective." Judy Library, BLH, Caltech. Tuesday 26 April 1994. 4 pm. Open to the community, refreshments will be served.

## Fellowships, Internships, and Competitions

\* The City of Pasadena has Internships available. Contact Human Resources Dept., 100 N. Garfield Avenue, Room 146, Pasadena—Phone: 818-405-4366, or come to the Caltech Career Center for more details—Room 08 Parsons-Gates, x6361. Applicants must be currently enrolled or have completed a master's degree program and undertaken significant course work in geography, urban planning, urban studies, public policy, public administration, computer science, or a related field.

\* The Literature Faculty is proud to announce the 48th Annual McKinney Competition. Please see the box on page three for more information.

Math Awards Offered—The E.T. Bell Undergraduate Mathematics Research Prize: \$500 will be awarded for the best original mathematics paper written by a Caltech junior or senior. Nomination/sponsorship by a math faculty member required. The Morgan Ward Competition: Any Caltech freshman or sophomore may enter by submitting a mathematical problem and solution or contribution toward a solution. Entirely judged on the nature of the problem and the originality and elegance of the solution. All entries are due in the math office, 253 Sloan, by April 27. Winner to be announced at the Math Awards Banquet, May 16.

Jewish Family and Children's Services is accepting applications for student loans, grants, and scholarships of up to \$5000. Jewish students who are residents of San Francisco, the Peninsula, Marin, or Sonoma Counties (for scholarships and grants), or residents of the Bay Area (for students loans), and who demonstrate financial need and academic achievement are eligible to apply. To receive an application, call (415) 561-1226 or come to the financial aid office. Applications are accepted throughout the year.

The John Gayles Educational Trust is offering financial assistance to Canadian and American citizens. Selected students will receive up to \$2,500. A minimum GPA of 2.7 is required. Deadlines range from April to November. For an application, send a self-addressed, stamped #10 envelope to: The John

Gayles Education Fund, Attention R. James Cogle, Administrator, P.O. Box 4808, 712 Riverside Drive, Fredericton, New Brunswick, Canada E3B 5G4.

The American Society of Mechanical Engineers is offering a number of scholarships to students enrolled in the mechanical engineering program. Some scholarships require the student to be an ASME member and some require US Citizenship. Awards range from \$1,500 to \$5,000. Demonstrated financial need may be necessary. Application deadline is April 15, 1994.

The Society of Women Engineers announces its 1994-95 Freshman and Reentry Scholarship Programs. The Freshman Program consists of 8 scholarships of \$1,000 each for entering woman engineering students. The Olive Salembier Reentry Scholarship is designated to encourage and aid women in reentering the job market as an engineer after being out of the work force for a minimum of two years. Applications and supportive materials must be postmarked on or before May 15, 1994.

The American Women's Club in Sweden announces that a travel grant will be awarded for study and research in Sweden. To qualify, students must be an American citizen who is female, age 18 or over, and accepted for a period of study or research at a Swedish educational institution or agency, and show evidence of need. For an application and detailed instructions, send a self-addressed envelope to: The American Women's Club in Sweden; Scholarship Foundation; P.O. Box 12054; S-102 22 Stockholm, Sweden. The deadline date for requesting the application package is March 15, 1994. Completed applications and

all supporting documents must be received by April 15, 1994.

The American Electroplaters and Surface Finisher Society (AESF) is offering scholarships for the 1994-95 award year to students of at least junior standing in chemistry, chemical engineering, environmental engineering, metallurgy or materials science program where the focus of the curriculum is in surface science subjects. Awards are not necessarily based on financial need. Applications must be postmarked by April 15, 1994.

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

The Orville Redenbacher Second Start Scholarship Program is offering 30 \$1000 scholarships to qualified applicants. To be eligible you must be 30 or older, and a part or full-time undergraduate or graduate student at an accredited college or university. All applications must be postmarked by May 2, 1994.

The National Hispanic Scholarship Fund is offering scholarships to qualified Hispanic students. Applicants must be full-time, daytime students who have completed a minimum of 15 college credits and are US citizens or permanent residents of the US. The deadline to submit applications is June 15, 1994.



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