



Technogeeks review the latest from the creators of Warcraft.

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Media Guy gets old and senile.

see page 5

THE CALIFORNIA TECH

VOLUME XCIX, NUMBER 26

PASADENA, CALIFORNIA

FRIDAY, MAY 1, 1998

Conference in D.C. Discusses Challenges for Women Leaders

BY MYFANWY CALLAHAN

This year the Dean's Office will once again sponsor women to attend the National Conference for College Women Student Leaders in Washington, D.C. Organized by the National Association for Women in Education, the event hosted nearly 600 students last year. This conference allows some of the most active college women from across the country to meet and discuss issues important to them.

The conference is designed as a venue for women to discuss where we want our society to go and to act upon these goals. Last year, the conference included many

workshops, an enthralling keynote speaker, and a trip to Capitol Hill. Simply by bringing together so many active women, it fostered valuable conversations about the role women should play in leadership positions. On the first day students were forced to confront and discuss whether and how men and women lead differently, the effects of affirmative action, the definition of feminism and other topics. Though the discussion was heated, no answers were given. The delegates were treated as future leaders and entrusted to come to decisions on their own.

The keynote address was given by Blanche Lambert-Lincoln, formerly the

SEE CONFERENCE ON PAGE 2

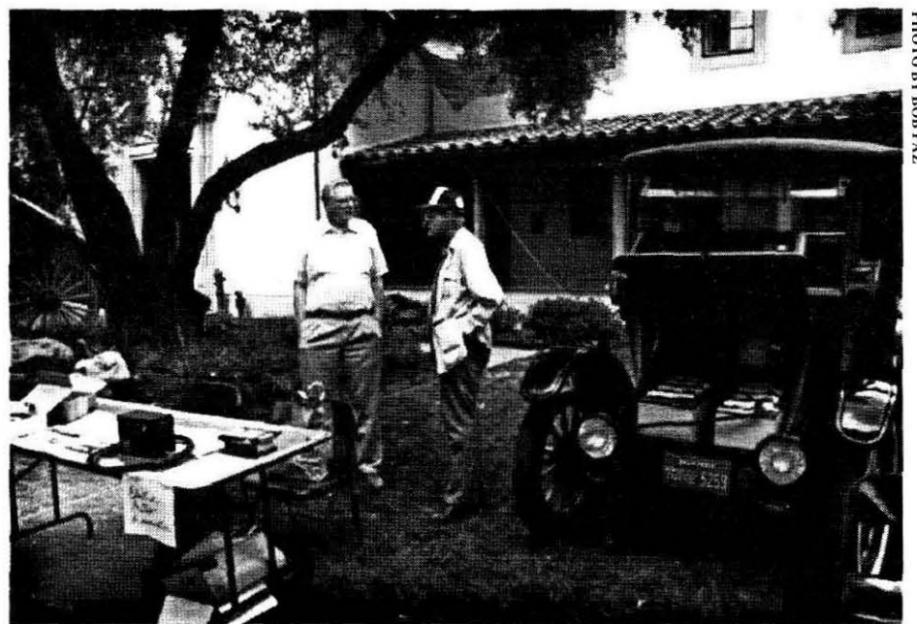


PHOTO BY BOB PAZ

Look, ma! No gas tank!
Electric cars, free smoothies, and music drew crowds to the Olive Walk for the Earth Day Festival last Friday.

Are You Ready to Samba?

Semana Latina to bring speakers, music, dance to Caltech

BY FRANKLIN MONZON

The time has come once again to celebrate Latin American culture on the Caltech campus with the fifth annual Semana Latina, a weeklong series of events, organized by Club Latino and CLASES (the graduate and undergraduate Latino organizations at Caltech), which aim to promote cultural awareness and diversity not only in the scientific community but in the community at large.

Every year hundreds of people gather to listen to music, watch and participate in dancing, sample delicious food, view theater and film, and to listen to the speakers. This year's Semana Latina is highlighted by the keynote speaker, newly inaugurated Caltech president and Nobel Laureate David Baltimore, who will deliver his views on diversity in science in his talk, "Caltech as a Living Environment," on Friday, May 1 at 11:45 p.m. in Beckman Institute Auditorium.

Science and technology are playing an increasingly important role in everybody's lives, and the handling of diversity issues in the scientific community subtly affects all of us. As president of Caltech, Baltimore's thoughts on how to establish a creative, relevant, and multifaceted scientific community hold great import for the future of research at institutions of higher learning throughout the country.

However, his speech is merely the start of a week full of events both educational and fun.

Noontime events occur throughout the week from May 4 to May 8, with each day featuring music and food (\$4) typical of a different region of the Spanish-speaking world. On Monday, May 4, you will hear the soothing, inspiring, melodies of the Andean high country with Sol de America; on Tuesday there will be the spectacular sights and sounds of Mexican Ballet Folklrico from Paso de Oro de Ali-

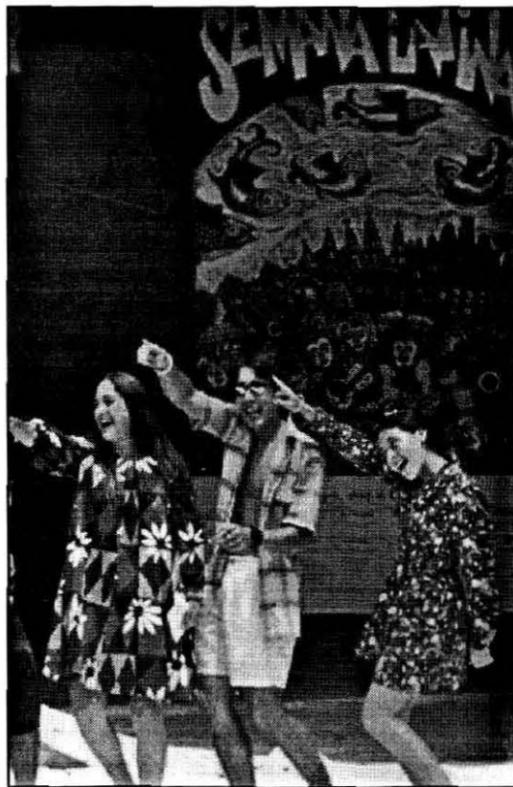


PHOTO BY JIM PANNETTA

cia Vaca; Wednesday offers the similarly engaging American Eagle Indian Dancers; Thursday brings the irresistible Samba rhythms of Mila Pagode; and Friday caps the week with the gyrating Salsa of Johnny Polanco y Grupo Amistad.

These events are all informal and are sure to attract a crowded mix of students, faculty, staff, and visitors attracted by the alluring sounds and enticing smells.

Nighttime events this year begin on Friday May 1 with GUSH: Unmasked, an informal party that kicks off a weeklong exhibit of masks and paintings by Victor Hugo Morales. On Monday at 4 p.m., UC Berkeley Professor Alex Saragoza comments on "Diversity in the Post-Prop. 209 Era." Professor Saragoza is a

SEE LATIN ON PAGE 2

A Glimmer of Hope for the Pasadena Blue Line

BY SHANNON STEWMAN

There may be new hope for the timely construction of the Pasadena Blue Line. Originally scheduled to open in 2001, the 13.6 mile light rail facility was placed on hold in January by Los Angeles County's Metropolitan Transportation Authority (MTA), but this February State Senator Schiff (of State District 21), in response to the delay, introduced a bill in the California Senate that would create the Pasadena Blue Line Construction Authority. The authority would resume the construction of the light rail project, taking it from the MTA.

The Pasadena Blue Line was to be the first northeast extension of LA County's once aggressive light rail and subway network. It was planned to run from Union Station, through Old Town, and out to the Sierra Madre Villa. It would provide inexpensive, safe, and timely transportation for Caltech students, faculty, and staff to downtown LA. From

there passengers can transfer to other lines, providing access to locations like Hollywood, Long Beach, Redondo Beach, and LAX.

The MTA's January 14 vote to suspend construction of the rail project for a period of at least six months has pushed the delivery date back at least that amount. Under the MTA's proposed schedule all members of the undergraduate community will have graduated by the line's completion.

Pasadena's light rail project hasn't been the only casualty in the MTA's budget crunch. The Red Line, downtown's subway line, has had two additions cut, as well. The construction on the East Side extension, which runs into Little Toyko and other areas of east LA, has also halted for six months. Development on the proposed San Fernando Valley subway, branching off of the North Hollywood line, has been halted altogether. The MTA re-

SEE RAIL ON PAGE 2

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The Outside World

by Myfanwy Callahan

MOSCOW, RUSSIA—Russia plans to send anti-aircraft missiles to the Greek Cypriot Government, possibly enflaming tensions on Cyprus between the Greeks and the Turkish minority. Turkey has warned that it may take military action if the missiles are delivered as planned this fall.

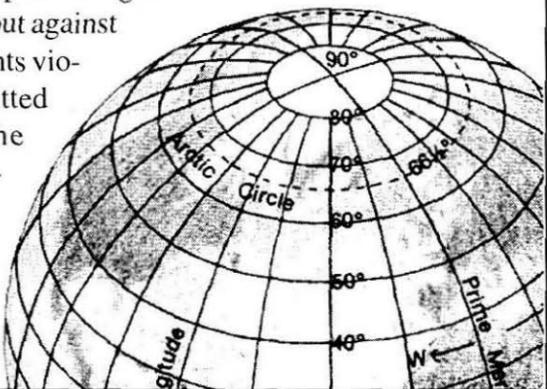
BRASILIA, BRAZIL—Brazil promised to set aside 62 million acres of the rainforest for conservation. The World Bank and the conservation group WWF International will provide financial and technical assistance in forming the preserve which will protect a full 10% of the Brazilian rainforest.

GUATEMALA CITY, GUATEMALA—A Roman Catholic Bishop, Auxiliary Bishop Juan Gerardi Conedera, was found beaten to death two days after presenting a report crying out against the human rights violations committed during the country's 36-year civil war. He attributed almost 80% of the hu-

man rights violations to the Guatemalan army. The civil war lasted from 1961 to the end of 1996.

JOS, NIGERIA—A special tribunal sentenced 6 high military officials to death for plotting to overthrow the country's military ruler. Another 26 were tried for treason and sentenced to lesser terms. Human rights organisations, opposition groups and the press have called for clemency and questioned the methods used in the trial.

WASHINGTON, D.C.—The Senate rejected a bill limiting the amount of support newer NATO countries are entitled to. With the possibility of Poland, Hungary, and the Czech Republic joining NATO, many question whether they will be able to afford the armed forces requirement for NATO membership.



LATIN: Baltimore to speak at Semana Latina today

CONTINUED FROM PAGE 1
specialist on modern Mexico and Mexican migration and typically delivers dynamic and humorous, but very thought-provoking talks.

On Tuesday Semana Latina goes interactive with a cooking and dancing exhibition. Ever wanted to know how to make the Spanish delicacies Paella, or Sangria? How to dance Flamenco? This is the perfect opportunity for both (or for just enjoying the show) as Clarita and the Arte Flamenco Dance Theater bring their expertise to Caltech.

Wednesday night offers two distinguished speakers. First, Professor Mauricio Mazon, chair of the History Dept. and Director of the American Studies and Ethnicity program at USC, will offer his views on "Anglo-American Illegal Aliens and Other Anomalies in Chicano History."

Second, Caltech Professor of Humanities and Social Sciences William Deverell will discuss conditions in L.A. in "Los Angeles: City of the Future?" Professor Deverell's talk is part of the prestigious series of Caltech Watson Lectures.

Thursday, May 7, features the performance theater "Artquitecture" written and directed by Henry Gamboa Jr. Friday is movie night on campus, with "Cronos," an elegant horror film from the creator of Mimic.

Finally, Semana Latina ends on Friday with the huge Sabor Latino party, featuring once again Johnny Polanco y Grupo

Amistad. For the latest detailed calendar of events and locations visit our web page at <http://www.cco.caltech.edu/~clatino>.

Semana Latina is, year in and year out, a colorful mix of sights, sounds, smells and thoughts. Semana Latina is fun, but it's also more than that—it offers a wonderful opportunity for people to come together and celebrate a mix of cultures that is deeply ingrained in our society, and to embrace a future of diversity and peace.

CONFERENCE: Discussion & Debate

CONTINUED FROM PAGE 1

youngest woman in Congress. She initially told her story of running for office and working her way up from the bottom. She had read the newspaper, decided that Congress needed some changes, and gone on the campaign trail, although her background was in molecular biology rather than politics. She served two terms as a Representative and then left office to raise a child.

Her message was to realize that although we could have everything: a career, a family, a social life, we could not necessarily have it all at once. "Who would wanna eat the whole pie anyway? you'd think it'd make you sick!" she said.

Here was a woman who had gone to the top and was fulfilling all her dreams, but she was also realistic. Her speech gave

proof that one can go far, but also cautioned against trying to be the superwoman who can do it all. Lambert-Lincoln made a great impression with her sincerity and honesty about what our expectations should be.

Many workshops were offered over the weekend which explored topics ranging from holistic medicine to planning your own conference. The workshops allowed students to discuss more thoroughly issues important to them. One looked at challenges for women leaders and examined how expectations for women differ from those for men. Another showed the movie "Still Killing us Softly" which takes a devastating look at how advertisers use images to objectify women. Even between sessions there were arguments as to whether the "Dress for Success" workshop

overly stressed women's appearance. There were also opportunities to speak with your Congressional Representative or to watch the Senate in session. The atmosphere of the conference encouraged discussion and facilitated networking among all of the students. Overall, it gave participants new ideas for tackling ongoing problems and empowered them to effect real change.

This year the Caltech Y, Women's Center, Residence Life and Master's Office, and International Programs Office will be able to sponsor sending at least three women to the conference at Georgetown University, Washington D.C., June 4-6, 1998.

If you are interested, please submit a written statement of interest to the Deans' Office by Friday, May 8th.

RAIL: Senate Bill May Save Blue Line

CONTINUED FROM PAGE 1

tains its firm commitment to finishing the Hollywood and North Hollywood extensions to the Red Line.

The Blue Line has become an integral part of Pasadena's transportation planning. The city has sought new sources of funding since the suspension. Private construction companies have approached Pasadena as of February estimating private sector funding and cost reductions could bridge the \$228 million shortfall in the Blue Line's current funding.

State legislative support has remained strong for the project, and Senator Schiff's bill, while still in committee, has the support of the City of Pasadena, who voted on April 20 to support the new authority.

The entire MTA subway and light rail project has come under constant fire from proponents of bus and car transportation. Opponents cite busways and carpool lanes as more cost effective methods of transportation.

Especially under fire has been MTA's constant diversion of funds from projects like its buscarpool lanes and into its Hollywood Red Line construction. The diversion has been, in part, to pay for the troubled construction of the line, which includes enumerable ground subsidencies.

The Pasadena Blue Line, however, comes without the expenses and problems of deep bore subway tunneling, and is estimated to ease the heavy congestion on the Pasadena 110 Freeway. With Senator Schiff's bill

moving ahead, the project may still be close to schedule with a reasonable completion time.

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LETTERS TO THE EDITOR

Complaint regarding the Prefrosh DJs

I am writing because I am very upset at last week's Prefrosh Party. I didn't feel that my culture was represented at all.

I come from a place called "Wallasole." Every Spring, we Wallasolians gather in a grassy, tree-spotted square and celebrate the invention of the skateboard, which revolutionized travel about the region. I asked the DJ's to play some of our folk music at the Prefrosh Party — which was advertised as "techno/house/industrial," but who really knows what that means anyway? — and they refused, saying that it sounded like two cats yawling right before a fight. They didn't care that they are extensively trained professional cat performers painstakingly reared from Sheba's Holy Seed.

I really object to the DJ's blatant racism in not playing the traditional music of the Wallasole, even though I offered to sing some over the PA system and they really didn't have to do anything at all. I think that such people are never going to change and we have to go beyond expulsion, back to the public humiliation stage. I move that we reestablish the stocks in the center of the Olive Walk with a whip soaked in vinegar available to passersby. Once they are sufficiently dehydrated, we can draw and quarter them, strewing the campus with their blood as a warning to all those who don't respect DJ requests at lame parties. We as a community cannot condone the continued existence of such counterproductive individuals among us.

Cynthia Gong

Diversity at Caltech: A perspective from the minority community

Caltech has ever distinguished itself as a leader in scientific research. With the end of the Cold War the United States faces the new millenium as the world's leader, and Caltech has to insert itself in the decisions that would set national and international policies. The challenges that we face are many: the public and politicians are shifting their interests from scientific research to more mundane issues. Furthermore, large sectors of society even distrust scientists. The new Caltech generation of scientists must be advocates of the central role of science in society. For this task, we need to have the most creative and dedicated individuals. However, we are losing many of these minds. We are closing our doors to many people who think and act differently from us. This exclusive treatment has detrimental consequences in our future as socially concerned scientists. We need people, ideas and discussions that will help us to break isolation that have characterized us in Caltech's first century.

As African Americans and Latinos we are especially concerned with one segment of the population that is not been attracted: the underrepresented minorities (African Americans, Latinos and Native Americans). Historically and in actuality, most of our people belong to the lower strata in this country. Due to historical discrimination many in our communities show distrust toward science. Some of our elders were used as guinea pigs in eugenist research such as

the Tuskegee experiments, where the effects of syphilis were studied for decades in an African American population even though penicillin had already been used to treat it. We understand why there is still resentment and misunderstanding. These are the attitudes that Caltech has to change if we want to maintain our status as a premier reaserach institution. If people in our communities see scientists who they can identify with this gap of mistrust can start to be science and engineering. However, this is one of the groups that Caltech is having great difficulty in enrolling. We need to understand why this is happening and how we can change this trend.

Students belonging to underrepresented minorities mention the atmosphere as a reason to decline the Caltech offer more often than other students. What in particular distresses them? There are a varitey of reasons. First and foremost is the scarce numbers of minority students currently enrolled. The students that come here don't find many people who they can identify with, with whom they can share ideas, heritage, history, music; in essence: a culture.

Even though the minority community is small, we are trying to recruit these qualified students in a bona fide way.

Particularly for us, community support is very important. Our cultures gravitate around the idea of mutual support. On the other hand, a bigger and stronger minority community would not only motivate more of these students to come but would also influence the Caltech community in general. Even with our

numbers we still organize events such as Black History Month and Semana Latina. An individual can't do as much as a whole group to generate the discussion of ideas. When a group with a distinct culture is present it enriches the prevalent one.

There is a cycle that we must break: most minority students are motivated to come if there is a sizable adn strong minority community, something that we do not have. We need to act now in order to change this situation. Personal contact and acceptance are paramount. Even though the minority community is small, we are trying to recruit these qualified students in a bona fide way with the help of the Minority Students Affairs Office, sacrificing our schoolwork in order to ogranize and participate in activites for and with them. We also establish different programs to help our students cope with the culture shock that many experience here, establishing an atmosphere where studnets feel comfortable while sharing and practicing different cultural aspects. In this way, we are building a strong community that is more appealing to prospective students.

We would also like to have more support of the rest of the Caltech community in this process. One way in which you could help is to be more open to different ideas. This would not only apply to members of the minority community but to anyone that has ideas different from ours. This inclusive approach would be helpful in our careers in reaserach, beacause it would allow us to consider and appreciate different theories. This is part of the creativity required in a scientist. This approach would also help in our role as social leaders, letting us have a better understanding of the social currents and how to respond to them. But how can we achieve this openness? We need a change of attitudes: to be disposed to listen and make an effort to understand. The

disucssion of issues such as race, ethnicity, social sturctures and culture can help us to have a better perspective of what other communities think and provide us with some knowledge to take positions. This dialogue would be productive in the creation of a more tolerant atmostphere. You can start participating this week by attending the different talks of Semana Latina, including today's keynote speech of President Baltimore.

In summary, given the world's actual socio-political condition, Caltech needs to acquire a more active social role to continue to be in the forefront of science. For this we need to create an inclusive climate that fosters the discussion of different ideas. This change of attitudes should be experienced by the accepted students during Pre-Frosh Weekend and by the rest of the community during the year.

Patricio A. Vela, Anna Salazar (796-0373), Olga-Nitaina-Uhuru Russi Roman (x1484), Jaime F. Martinez, and Khristie V. Phillips (x1296)

Please send submissions for letters to the editors to

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or by email tto

editors@tech.caltech.edu

Deadline for submissions is Tuesday at 6 pm on the week of publication.

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

Caltech Alcohol/Drug Survey

BY DEBORAH SOUTHLAND

Students will be receiving the Caltech Alcohol/Drug Survey (CADS) via campus mail. The purpose of the survey is to gather accurate information about current alcohol and drug usage rates, and related areas of interest. Data from the CADS will be used by the Drug & Alcohol Abuse Prevention Program to develop services to meet student needs. The CADS is not in any way connected to DAPAC or the alcohol policy on campus.

This survey was based on the standardized CORE survey administered in 1994 (results available at www.caltech.edu/

~counseling/daapp), but it is more specific to the Caltech campus and students. A group of undergraduate and graduate students have provided feedback and suggestions to improve the survey.

The CADS will be mailed to a random selection of undergraduate and graduate students. All responses are anonymous. The results of the survey will be made known to students after all data are analyzed. Your input is valued! If you receive the survey, please complete and return it. If you have any questions or comments about the CADS, please contact Deborah Southerland at x2961.

Clarification and Corrections

In last week's Dean's Corner is appeared as though the undergradate students refused to take the prefrosh off campus. However, Admissions specifically requested that the prefrosh not be taken off campus for safety reasons.

In issue 20, the word 'Emeritus' was inadvertently misspelled in David Wood's obituary.

The California Tech deeply regrets these errors.

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A.S.C.I.T. Minutes

APRIL 28, 1998

Present: BoD (minus Alan), Stephen Shepherd, Jeff Mendez, Conrad Zeisler, Louis Saenz, Audrey Lee

Meeting called to order at 22:01.

Dealing With Guests Volleyball - Jaideep told Louis that the BoD would be reconsidering club funding proposals. He lies sometimes. Louis hands over a new copy of the volleyball club proposal and gives a short pitch. He bumps, sets, and spikes himself right out the door.

KELROF - Jeff and Conrad present a funding proposal. They want \$100 more than last year to pay for t-shirts for the participants. They have some good ideas about bringing in more participants from JPL and the faculty. An undergraduate whipping booth is sure to be popular with the physics department.

Totem - As soon as Stephen gets some office space, work on the Totem will begin. He assures the BoD that a magazine will be produced, even with the limited submission pool available. Depending on how the Tech feels about sharing, the Totem may be working out of a closet.

General Business little t - Autumn presents a compensation schedule for the little t. The commission rate for ads not solicited by the business manager is increased. Also, web ads will be given free to all customers rather than sold. Mike moves to accept this plan and Rob seconds. The BoD votes 6-0-1 with Autumn abstaining.

Endowment - Rob has been doing some research. We can start an endowment with a very minimal investment. That will give us a starting point for soliciting donations. More details are forthcoming.

Club Funding II - The BoD will meet this Sunday

over lunch to reassess the club allocations. Mike will setup the reservations.

Bylaws - Mike made some minor adjustments to the proposals. They are approved by the BoD. A preliminary release will be made on the newsgroup (caltech.ascit.announce) for discussion. Copies will be distributed in the house lounges as well.

Phones - Baldeep found out that it would cost \$6 per month per extension to have voicemail. The BoD decides to get extensions for every office and no voice mail. Officers will have the option of routing their extension to the main ASCIT number.

Tom - Dinner at Tom Mannion's house tomorrow night. Intense sense of fulfillment to follow.

Survey - The BoD wants to get some feedback from people about a variety of issues. A general survey will be sent out to everyone. BoD members can send survey questions to Autumn who will create and distribute them.

Coffeehouse - Baldeep and Rob will be meeting with Tom on Thursday to hammer out a Coffeehouse agreement.

Officer Reports Steve - A bound version of the '96 CLUE is still in progress. The review of the budget meeting is done.

Autumn - Is hot on the trail of the mysterious ASCIT sailboats. The diahatsu meeting went down and we got some quotes and color samples. I hate mauve. It is decided that business cards are a worthwhile venture so Autumn and Jasmine will give it another go.

Jasmine - Rob and Jasmine set up a separate Social Director account with the bank. Invitations to the formal are going out posthaste.

Devi - The CLUE is being put on the web. They need about 70 megs of space on a Linux machine. Rob and Mike assure her that it won't be difficult to find. Early term class surveys are on the web. Baldeep wants to know why there is a name field on what should be an anonymous survey. Devi says that it is used for deter-

mining if responses are coming from people actually registered in the classes and that no identifying information is passed on to professors. There is general agreement that this field should be removed. Responses can be limited to the caltech domain and reliance put in the Honor System for honesty. The Sherman Fairchild Library will be open late during midterms.

Jaideep - The IHC is done with committee appointments. Jaideep presents them to the BoD for approval. Steve moves that the BoD approve the selections. Jason seconds and the BoD votes 3-0-4 with Jason, Rob, and Steve in favor. Rob points out that the motion has not passed. After some confusion and a little bit of yelling, the BoD votes 7-0-0 to approve the appointments. Jaideep is looking into having an off-campus representative to the IHC, setting up a student advisory system, and bringing back the Big T on Mount Wilson.

Rob - The check stub records are up to date. ASCIT has about \$45,000 in liquid resources going into the summer. Unfortunately, we only have 5 checks with which to spend this money. Rob needs to settle the bill from Capra and find out how much the DRL donut subsidy is.

Mike - Updated the amendment proposals.

Baldeep - Sent a letter to the GPS people about getting all undergraduates access to Mudd. He might change the donut order in favor of more strawberry donuts.

Meeting closes at 23:23.

The BoD decides to allocate \$600 for KELROF. The BoD decides to allocate \$1500 to subsidize letter jackets. This money will be divided up amongst all eligible individuals with a maximum subsidy of half of the cost of the jacket.

Meeting adjourned at 23:34.

Respectfully submitted,

Mike D. Astle
ASCIT Secretary

I.H.C. MINUTES

APRIL 16, 1998

Present: all+lots of Lisa's friends+Lee Rumsey+Audrey Lee+Dave Tytell

Monthly Food Report: Dave will begin reporting to the IHC monthly regarding CDS. He's working on developing a Kosher board plan. Special Lunches (like the omelettes) will become more frequent and varied: (wrap bar, sushi bar...) there is talk of a vendor fair where students can sample and comment on potential food purchases. The first interviews for a replacement Lee will be soon.

Amendments to the IHC Sports resolutions: Audrey presents proposed amendments made with house ath men: (1) Make regulations presentation

more uniform across different sports i.e. put trophy scores all at end of section, put eligibility requirements once only at beginning of document. (2) Add a sportsmanship section, (already written and approved by the athletic department in conjunction with the Ath Teams, at beginning of document. (3) Add a clause saying that rules can be changed so long as mutually agreeable to opposing sides. (4) Include interhouse track records. (5) Allow substitutions during swimming prelims. (6) Allow e-mail discobolus challenges.

• results of Fire committee meeting on (4/16): Committee will consult with DRL, BOC to re-evaluate current fire policy. Basically it is desired that Caltech develop a formal statement discouraging abuse fire.

Tanya



Ecphonema performs at a concert earlier this year.

It means 'make a loud noise'

BY JOE COOK

Their voices were golden, their glory undeniable, and the house was rocked to the ground. Registering yet another triumphant performance, the a cappella group from Caltech known simply as Ecphonema bowed once, briefly, and left the stage followed in a rush by something they've gotten quite used to: wild screams and thunderous applause.

Look out, ladies, Ecphonema is in the building.

The past year has seen the birth of a new and timeless craze on the Caltech campus: contemporary a cappella. Long a staple of the East Coast college scene, a capella is now sweeping

through southern California, and Caltech has joined the tidal wave. First came the fantastic all-women's group, the Treble Makers. Then we came. An eight man group singing incomparably sweet lyrical grooves... Ecphonema.

What is a cappella, you may ask? It's singing that transcends the need for instruments, by using the incredible versatility of the human voice to imitate and surpass the sounds of drums, guitars, pianos and trumpets, even philharmonic orchestras. Meaning, we don't need no stinking instruments!

Banded together a mere seven months ago, Ecphonema has developed a

CONTINUED ON PAGE 9



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Bridge Without Regularity

by Wei-Hwa Huang

NORTH
 ♠ A732
 ♥ Q9432
 ♦ 6
 ♣ T65

WEST
 ♠ KQ9
 ♥ K87
 ♦ KQ9854
 ♣ 3

EAST
 ♠ JT6
 ♥ JT65
 ♦ T72
 ♣ J82

SOUTH
 ♠ 854
 ♥ A
 ♦ AJ3
 ♣ AKQ974

Both sides vulnerable.
 Dealer is North.

NORTH	SOUTH
—	2♣
3♥	4♣
4NT	5♥
6♣	

Opening Lead: Queen of Diamonds
 The Bidding

North's 3♥ was a artificial bid, asking South to divulge more information. The 4♣ response indicated a strong suit, but uneven hand. North asked for aces, and the small slam was bid.

The Play

West was flabbergasted at his opponents bidding a small slam over his justifiably thirteen points. After a long, tortuous decision of which royal pair to break up first, he finally decided on the ♦Q.

Oops. Big oops. South took the Ace, trumped a diamond in dummy, got back in hand with the Ace of Hearts, trumped another diamond, trumped a low heart, trumped the hand's last diamond, and trumped yet another heart with the nine of clubs. When West followed, South was home free; after drawing trumps, South entered dummy with the Ace of Spades and threw his two losing spades on the hearts, East's remaining Jack falling under dummy's Queen. A grand with only 24 high card points; not bad!

West was chagrined when the score card was opened, and discovered that not only were North-South the only pair to bid a slam, but he was the only West to allow South to waltz away with all thirteen tricks, as a spade lead knocks out dummy's vital entry.

West got his revenge next game, though....
 (To be continued)

The Caltech Bridge Club meets every Monday at 7:15 pm in Avery Dining Hall. Hope to see you there!



ADAM VILLANI, MEDIA GUY

by Adam Villani

The Concerted Effort

Recently I had a discussion with a friend in which we tallied how many movies we had seen by different directors. Despite the fact that, as Media Guy, I've been to the movies nearly twice a week for the past five years, I came up shamefully short in the tally for movies more than about 20 years old. I only had one Hitchcock under my belt, no Godard or Truffaut, and hardly any of the classic genres of the musical, the noir, or the Western. I even had some glaring omissions in the oeuvre of contemporary filmmakers like Spike Lee or Francis Ford Coppola. And so, in the tradition of young scholars reading the Great Books, I've decided to embark upon the great Concerted Effort to see more old movies.

That was about three weeks ago, and since then my life has been vastly enriched by viewing a wide variety of classic motion pictures. I've tried to be as broad as possible, and my ongoing plans involve seeing comedies, dramas and documentaries, award winners, cult classics, influential trendsetters, masterpieces from great directors, star showcases, and representatives from every important genre and movement.

Perhaps my most pleasant surprise so far has been the work of Billy Wilder.

Some Like It Hot (1959, with Marilyn Monroe, Jack Lemmon, and Tony Curtis) and *The Apartment* (1960, with Jack Lemmon and Shirley MacLaine) are strong examples of the best of Hollywood filmmaking:

Robert Flaherty's Nanook of the North (1922) is an amazing silent film documenting a traditional Inuit family in northern Canada.

stimulating, hilarious movies with memorable performances. Robert Flaherty's *Nanook of the North* (1922) is an amazing silent film documenting a traditional Inuit family in northern Canada. Two Marx Brothers comedies (*Duck Soup* and *Monkey Business*) have left me howling with laughter, and Alfred Hitchcock's *North By Northwest* (1959) held me captivated in my seat.

I found Charlie Chaplin's *Modern Times*

charming and compassionate, while *The Great Dictator* was unfocused and preachy. I was also less than thrilled by Humphrey Bogart in the supposed-classic noir *The Big Sleep* (1946); the movie seemed to exist only for the sake of following the plot, with nary an interesting character to be found.

After being armed with a fairly good knowledge of film technique and seeing so many films of recent years, it has really opened up my eyes to see so many classics that paved the way for today's movies. The New Beverly theatre in Los Angeles plays an ever-changing slate of revival pics, the Nuart in West L.A. and the Port in Corona del Mar frequently show retrospectives, and you can find special film programs at places like UCLA and the LA County Museum of Art. While experiencing a film in a theatre is certainly the way to go when possible, there comes a point when one must bow to reality and acknowledge that the only way to really get a grasp on the legacy of the motion picture is to visit the video store.



Ever wonder why the Titanic went down so fast?

Ever see a super ball made out of metal?

Ever wonder what powers deep-space probes?

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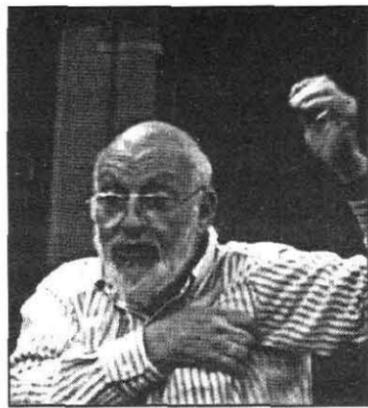
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Dean's Corner

Rancheros a la Bourguignonne

by Jean-Paul Revel

Next week we will be celebrating Cinco de Mayo, a fiesta of greater importance here in the US than it is in the Latin world. The explanation for its prominence here may well have to do with commercial hype, but even then, it is an interesting phenomenon. Of course what it marks is the anniversary of the battle of Puebla which took place in 1862, long after Mexico had won its independence from Spain.

It had fallen on bad times, having lost its territories to the North to the United States, and with the country in such economic shambles that the President Benito Juarez decided that it would have to stop servicing the debt Mexico owed to France, Spain and England, for a period of two years. The French Emperor, not the Napoleon of Austerlitz or of the penal code that is basically still in use in France, but Napoleon III, decided that this would not do. Encouraged by President Juarez's political opponents Napoleon sent in French troops, which were promptly defeated on this 5th of May, by 5000 ill-equipped Mestizos and Zapotec Indians, led by General Ignacio Zaragoza.

It was a short-lived victory. Within two years Napoleon had installed Maximilian, the younger brother of Franz Josef of Austria, as Emperor of Mexico. That too did not last

long. Nappy lost interest when Max proved to be a poor administrator. Without support Maximilian was soon executed, his wife went mad and Porfirio Diaz became the new Mexican head of state.

Today of course what remains is an occasion for display of Latino pride, as I said, more outside Mexico than in the country where it nevertheless is a national holiday. Here in the US, by now, it is not just a hispanic celebration but one in which the rest of us also participate. In an atmosphere where there are tensions between various ethnic groups, this is one of the days in which many of us seem to be able to participate, like Saint Patrick's day, where Irish and Germans, Italians and descendants of the Lord of Baltimore (yes named after an Irish village, I learned the other day) even descendants of Englishmen, all wear a bit of the green.

On this day we are made conscious of the Mexican Heritage. Usually of course that means a taco or a burrito and a side dish of guacamole. I don't know too much about this but one of my sources on the mores of early California while under Mexican rule, suggests that frijoles (refried beans) would be more appropriate. Richard Henry Dana describes his Sunday dinner on shore in San Juan Capistrano in his account "Two Years before the Mast" as follows: "The dishes contained baked meats, frijoles stewed with

peppers and onions, boiled eggs and California flour baked into a kind of macaroni. These together with the wine made the most sumptuous meal we had eaten since we left Boston: and, compared to the fare we had lived upon for 7 months, it was a regal banquet." Viva los huevos rancheros! Whatever our origins we all carry with us a bit of "the old country".

Things from our youth, patrimony of the mind and of the stomach, echoes of the sounds and thoughts that we heard in our families when we were small, and which are now part of what makes our comfort zones. Not that we cannot or do not continuously make new memories which make us comfortable and warm. Things that seem to be foreign at first can become so familiar that they become part of ourselves even if they were not part of our ancestral traditions. I discover that although I was brought up with classical music, and it was frowned upon at home to listen to Pop Tunes, I did acquire a fondness and familiarity for the tunes of the fifties and sixties which is when I came to this country. They sound familiar and comforting although I would not be able to name any of the artist's or even songs. All I know is that I know them. By now I also like the simple rhythms and intricate tongue twisting poetry of Hip-Hop.

The problem however is that our world is like puddingstone. That is there are pebbles of different sorts all embedded in a common matrix. And of course each pebble

is in turn made of separate constituents. Each pebble is a bit like the various (ethnic) groups which are held together by the cement of our land. In this puddingstone like environment of ours, the problem is that although we can recognize what we and the others in our pebble feel familiar with, it can be incredibly hard for us to know and feel what the inhabitants of the next pebble appreciate. Members of the many minorities among us, those on unique or rare pebbles have it worse than most. They can tell what makes the members of the majority resonate because even while they are part of a minority they are often part of the majority also, but the majority does not know how to reciprocate, or even realize that it must somehow reciprocate.

I came to the US all by myself, my parents having heard the story about this land of opportunity and decided, after our adventures during the second world war, to spread their offspring "around the world". I, however, thought that most likely I would leave again and spend the rest of my life among the French. As a result I avoided my expatriate compatriots. The majority around me saw me not as a person but as French, a stereotype. Of course I would be a lover, with unbridled and somewhat dangerous appetites and habits. They had no way of knowing that my upbringing had been pretty puritanical and that many things they took for granted were in fact beyond anything I would (could) do. So people I might have gotten along with avoided me, and I avoided the others. If only we had talked, dared to bare ourselves (our souls of course), we might all have gotten more out of life on our juxtaposed pebbles.

One way of course is to make the most of the glimpses that are offered us. To participate in intercultural activities like the Semana Latina, our own tidbit of Latin culture which opens on Friday with a talk by President Baltimore. Not to believe that having drunk green beer is to know all there is to know about the Irish! To talk to people of other races as people, as carriers of cultures all their own, but nevertheless cultures that we outsiders also can partake from. Where possible let's participate and not see the others not as creatures in a zoo, with virtual cages perhaps, but still barriers that keep us separate. Let us listen to stories, let us read about our own Indians and the great civilizations of the Toltec, the Aztec, the Mayans, the Olmecs and the exploits of the Chinese railroad builders and the heroism of the Japanese-Americans who enlisted in the US Army and about the contributions of African-Americans and so many others besides. Never to be satisfied that one really knows about the others unless one has walked many miles in their shoes, or read from and about them. And if we cannot do it ourselves then we must listen to people who have bridged the cultures, such as Octavio Paz, the Nobel Laureate poet and essayist from Mexico who died last week, leaving us with his understanding of the dual roots of his national soul from Spain, oh yes! and also from the time before Cortez vanquished Montezuma. So rest well Octavio and guide us to see the way to our common humanity.

A bientot,

Jean Paul Revel



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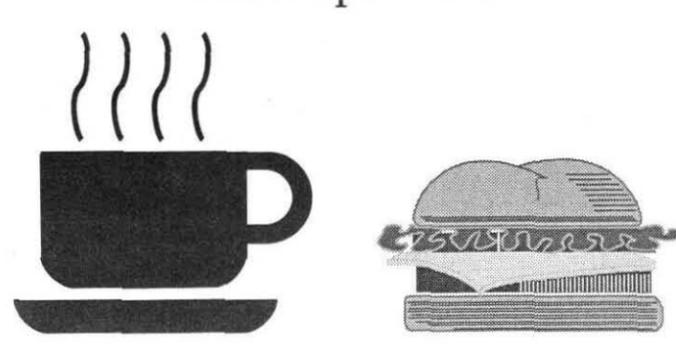
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TechnoGeeks

The TechnoGeeks have gone to the far ends of the Internet to provide information about your computers and the next good flick. Sometimes we tell you of the winners, the best of shows, and sometimes the things which should be avoided at all cost. Setting up USB (Universal Serial Bus) is a Bad Thing™ though it is pretty cool when it works. Now on to the flicking.

Starcraft

by Blizzard Games

Starcraft, the direct successor of Warcraft and Warcraft II, has many new features which make the sequel an impressive game in its own right. Hours of development have made the combatants, the Humans, Protoss and Zerg, complete with their own advantages and disadvantages, rather than clones of each other with different graphics.

The Humans represent a society of former criminals fighting mainly for their survival. There is not much new there. The Zerg are your basic mindless enemy who breed like crazy and possess a hive type overmind which is the embodiment of the goals of the Zerg Race. The final combatants are the Protoss, a slow-breeding highly advanced psionic race who would be able to wipe the floor with the other races if not for the fact that their troops

are extremely expensive in terms of resources.

Gameplay is a top down view where you are able to control the basic actions of all your players, from what they are harvesting to who they are attacking. This view does not allow extreme skill (like dodging rockets) to tip the balance of a battle, while allowing strategy to have a large hand, all while occurring in real time.

Battlements are cheaper and more effective than the mobile troops, but they must be laid out with forethought, since it is extremely difficult to build defenses at the last moment. Resources are limited, so simply building your enemy under is often not an option.

In the gripe section, you are limited to some number of units instead of an infinite quantity. It would be rather amusing to have 50,000 marines go and clear the face of the planet. Also, in the campaigns, there is no clause for total victory, a successful outcome that the game programmers never expected. It seemed rather weird to abandon an outpost because of being overrun where there were no enemies on the board.

This game is a true gem that should with the advent of battle-net be worth hours of good-hard flicking.

7 bits out of 8

FOAMING AT THE MOUTH

by Mason Porter

Interdisciplinary Work

Perhaps the most significant aspect of current research is its interdisciplinary

One of the best-known cross cultural scientific efforts is between mathematics and physics...

Caltech's primary strengths as an institution. Some of its departments—Control and Dynamical Systems and Computation and Neural Systems come to mind—combine elements of several other departments and are interdisciplinary in their very nature.

One of the best-known cross cultural scientific efforts is between mathematics and physics, although even that one has not always been well-cultivated. For example, it took longer than perhaps it should have for geometry and mechanics to be studied as one. Other connections that have been strong historically are those between biology and chemistry, chemistry and physics, and mathematics and economics.

However, connections between so-

called "life sciences" and "physical sciences" have been less well-studied until recently (on a historical scale). Indeed, these are among the most popular research topics. Mathematical biology has been expanding quite rapidly; a mathematical biologist does not need to mean just somebody who computes actuary tables! A series of seminars at Caltech that began last term, Biology 0.1, was created to promote interactions between the biological and physical sciences.

Many other institutions also have departments devoted to interdisciplinary work, and these departments are the ones with bright futures. If one looks at the articles in a typical scientific journal, one will find that an increasing percentage of the authors are from fields not directly under the purview of that journal. Moreover, an increasing number of SURF projects in recent years have been awarded for interdisciplinary work.

Though this article has spoken in generalities, my point is widely applicable. I have chosen not to marshal too much specific evidence because I would only be able to speak intelligently about the interdisciplinary areas in which I seek to work (those related to dynamical systems). If you have any comments, send them to mason@ugcs. Sending specific examples of interdisciplinary research would be appreciated, as I plan to collect them for a future article. Also in store for the future are articles about academic inbreeding and the bitterness of many Caltech undergraduates.



FOOD WITH FOOD

by Dave Tytell

Dave, *Is it true that you can make sparks by cutting through a grape until you have two halves connected by a bit of grape skin, putting the grape cut sides down on a plate, and microwaving for 5-10 seconds? —Too much time on her hands*
As tested by yours truly, the answer is YES!!!! Use green seedless grapes (though I didn't bother testing any other kinds) and make sure the plate and grape are dry when you do it. The grape skin must be there connecting the halves. Cool stuff!

here! And look out for the first annual vendor fair on May 12th. More info to come!

Finally, here is a list of confirmed dress dinner dates for third term:

- Blacker 5/11
- Page 5/13
- Fleming 5/15
- Ruddock 5/18
- Ricketts 5/19
- Lloyd and Dabney have yet to set a date.

Till next time,

Dave

Food Committee meetings are in SAC 33 at 4:00 p.m. on Wednesdays. Food committee minutes can be obtained by sending a request by email to tytell@cco. Come on by if you have any concerns!

As for other minor details, Caltech will see the return of the In N' Out van on May 8th... along with strawberry donuts for dessert. Make sure you're

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4/7:	Baseball	Caltech	22	Germans	4
4/8:	Women's Tennis	Caltech	6	Cal Domingue Hills	3
4/10:	Men's Tennis	Caltech	7	College of Notre Dame	2
4/11:	Men's Tennis	Caltech	3	Claremont	4
4/13:	Women's Tennis	Caltech	1	Claremont	7
4/17:	Baseball	Caltech	1	Claremon	20
4/18:	Baseball	Caltech	2	Claremont	17
		Caltech	0	Claremont	15
Golf	SCIAC	Championship	5th	place	
Men's Tennis	SCIAC	Championship	5th	place	
Women's Tennis	SCIAC	Championship	5th	place	

Men's Volleyball bids farewell to the German Cannon

BY SCOTT VAN ESSEN

To end its spectacular 1998 season, the Caltech Men's Club Volleyball Team will be playing in the USD invitational tournament all day Saturday. At the tournament, the team will say goodbye to the best player the team has ever had, Andreas Masuhr. Andreas, a graduate student in Materials Science has played on the team for four years and coached it for the '95-'96 and '96-'97 seasons. Andreas' wife, Susanne, no stranger to volleyball herself, is the head coach this year. She has managed to rack up the most impressive record in Caltech club volleyball history: 16-2. As you might suspect, the two losses came in matches that Andreas

couldn't attend.

Originally from Germany, Andreas was a member of the German Army Volleyball team, and for his tenure there ate, drank, and slept volleyball. Now at Caltech, he has been the bedrock upon which the team has built its success. Playing at outside hitter and opposite, Andreas is a 'go to' hitter. When another team's blocking has shut down the Caltech attack, or when momentum has swung the wrong way, he can be counted on to put the ball away with such force or dink it with such finesse that even the most stubborn defence is hard pressed to bring it back up. From the front or the back row, he can go around or over as many blockers as the opponents care to put up. Said this year's assistant coach Aaron Kiely, "Andreas is truly spectacular to watch. I've seen our opponents completely rearrange their blocking strategies to try to stop his attacks. It never works. I don't know what it takes to stop Andreas. Fortunately, neither do our opponents."

Aaron also recruited Andreas and coached him during his rookie year. "94-95 was the first time I coached a real team. Pretty soon it became obvious that there wasn't much I could teach Andreas, and that he knew more about volleyball than I could ever hope to learn. That's when I had the bright idea of asking him to coach, and he did for the next two seasons." As a coach, he shared his experience with the younger members of the team. "Andreas was the first coach I had on the men's team..." said Scott Van Essen "...I credit him with most of my recent development as a volleyball player." During games, he was able to both play as a starter and observe the other team and make adjustments as a coach.

Andreas is a truly gifted athlete, one of the best that Caltech has ever had. It has been a privilege to have played with him and it will be a loss to the team and the community when he graduates

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Graduate Student Andreas Masuhr spikes the ball against Pomona-Pitzer.

PHOTO COURTESY OF THE VOLLEYBALL TEAM

Ecphonema...

CONTINUED FROM PAGE 4

house-rocking, ear-teasing, toe-tapping repertoire of classic a cappella, rhythm and blues, rock & roll, and much much more. Their combined efforts with the Treble Makers has produced such melodic memories as 1st term Decompression, 2nd term Decompression, and the terrifically popular Love Sucks at Caltech concert in February, where a cappella groups from all over southern California came together to celebrate how much love sucks at Caltech. On our own, Ecphonema has held several performances, including any number of random late night concerts, such as ASCIT Donuts and their Orange Walk "Serenade".

Most recently, Ecphonema took its smooth-throated vocalists and sensuous songs on the road for their first off-campus showing, at USC. Last Saturday's live a cappella jam, MusicFest, was hosted by the dazzling and delectable USC Sirens. Together, the USC Loudmouths, Hangovers, and the acclaimed SoCal VoCals, along with Claremont's Pandora's Vox and Caltech's very own

Ecphonema, rocked out in a concert I simply can't describe. Enough adjectives to properly recapitulate the occasion of this event I do not know, and give credence to my observation, I am loquacious beyond the mean proportion!

Suffice to say, we rocked the house. Wild screams and thunderous applause. Oh yeah.

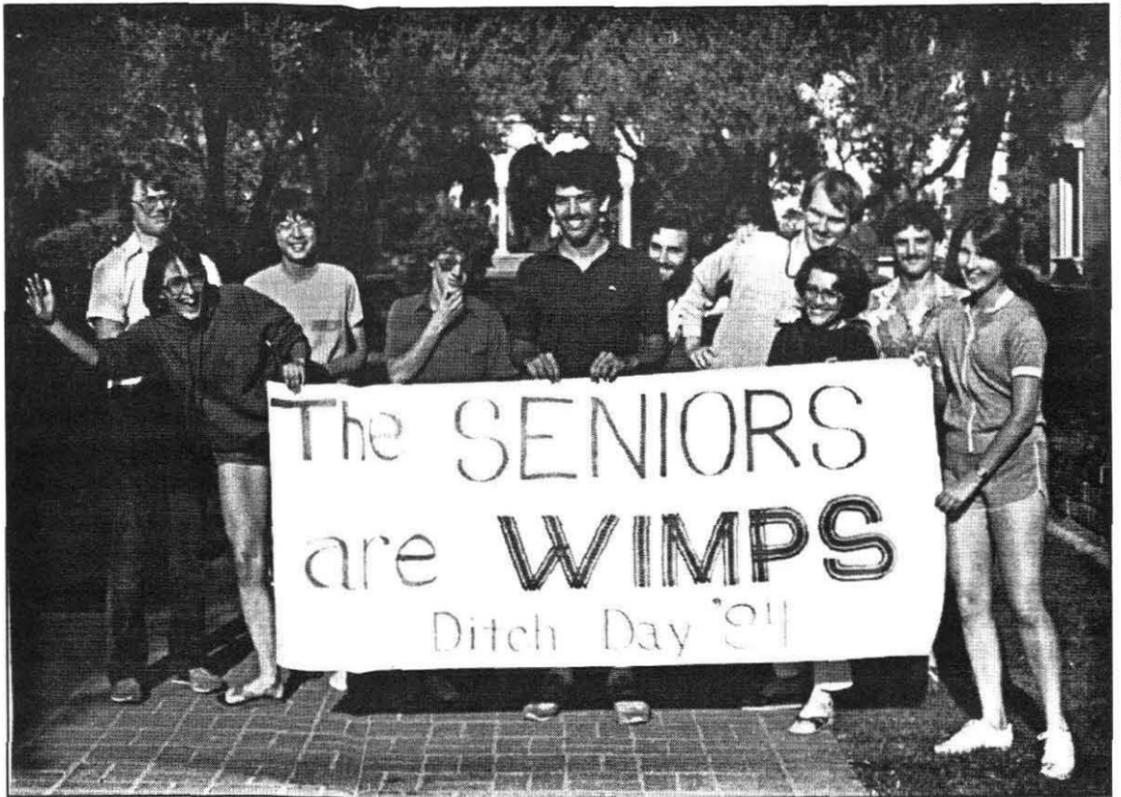
Better get used to it.

And now, Ecphonema is bringing the bass-thumpin', tenor wailing, and mind-blowing percussion of their past concerts back to Caltech for their "Everything We Know" concert! Get ready, because the noise has just begun...

Eight Men.
Ten Songs.
ONE LOUD NOISE!!!
—Ecphonema: Every Song We Know—
—(and then some)—

With an appearance by the beautiful and wonderful women of Caltech's one and only Treble Makers... I mean, ladies, ladies!!!

If you're interested in a cappella (voices without accompaniment), check out Ecphonema's website at www.ugcs.caltech.edu/~ecphon and the Treble Makers' website at www.cco.caltech.edu/~treble. Or, email us at ecphon@ugcs and treble@cco.



Will history repeat itself? This week saw Ditch Day fakes on two separate days. Can the Seniors get their acts together before Tomorrow?

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Most of our customers have been with us for a long time. We do all we can to make sure you're happy. If for any reason you have a problem with your system, we offer a 30 day money back guarantee & 1 year warranty covering parts and labor. We also have a GE 3 year additional warranty & Action Call Software support membership available as a an option.

About Pasadena Computer Center.

Pasadena Computer Center is located in Pasadena, CA with branches in New York. With almost ten years in the industry, Pasadena Computer Center learned how to serve its customers well. Some of our repeat customers include the Jet Propulsion Laboratories (JPL), GTE, U.S. Postal Service, Rockwell, Pacific Bell, UCLA, USC, Los Angeles Unified School District, Caltech, Edwards Air Force Base, Kaiser Permanente, Cal State LA and many community colleges. No matter if you're looking for a computer to use at home or a hundred computers for the office you'll get the quality and service you expect.

HOME/OFFICE STATION

- > Medium Tower Case w/230W
 - > Intel Triton VX Chipset w/512KB Pipeline Cache
 - > 32MB EDO Memory
 - > 4.3GB EIDE Hard Drive & 1.44MB Floppy Drive
 - > S3 Virge 3D SVGA Card w/2MB Memory
 - > 15" 0.28mm NI SVGA Color Monitor
 - > 33.6 Fax/Modem w/Voice
 - > 16X EIDE CD-ROM Drive
 - > 3D Sound Card w/Software Wavetable & 160W Speaker
 - > 105 Key Windows 95 Keyboard & 3 Button Mouse
 - > MS Windows 95 CD & Lotus SmartSuite 97
- PENTIUM 200MMX \$1175 HOA01**
PENTIUM 166MMX \$1095 HOA02
AMD K6 200 \$1185 HOA03
AMD K6 166 \$1085 HOA04

SUPER MEDIA PLUS

- > Medium Tower Case w/230W
 - > Intel Triton 430TX Chipset w/512KB Pipeline Cache
 - > 32MB SDRAM
 - > 6.4GB Ultra DMA Hard Drive & 1.44MB Floppy Drive
 - > S3 Virge 3D SVGA Card w/4MB Memory
 - > 17" 0.28 NI SVGA Color Monitor
 - > 24X EIDE CD-ROM Drive
 - > 56K X2 Fax/Modem w/Voice
 - > SoundBlaster AWE 64 & 240W Speaker
 - > 105 Key Windows 95 Keyboard & Microsoft Serial Mouse
 - > Windows 95 CD & Lotus SmartSuite 97
- PENTIUM 233MMX \$1865 SMA01**
PENTIUM 200MMX \$1725 SMA02
AMD K6 233 \$1795 SMA03
AMD K6 200 \$1715 SMA04

INTERNET READY TO GO !!

- > Mini Tower Case w/230W
 - > Intel Triton VX Chipset w/512KB Pipeline Cache
 - > 16MB EDO Memory
 - > 2.5GB EIDE Hard Drive & 1.44MB Floppy Drive
 - > 56K X2 Fax/Modem w/Voice
 - > PCI SVGA Card w/2MB Memory
 - > 14" .28 NI SVGA Color Monitor
 - > 12X CD-ROM Drive
 - > 3D Sound Card & 60W Speakers
 - > 105 Key Windows 95 Keyboard & Internet Mouse w/3 Buttons
 - > Microsoft Windows 95 CD & Best 10 CDs
- PENTIUM 200MMX \$1005 IRA01**
PENTIUM 166MMX \$ 995 IRA02
AMD K6 200 \$1035 IRA03
AMD K6 166 \$ 935 IRA04
6X86 200 \$ 995 IRA06

3D GAME STATION

- > Sub-Medium Tower Case w/230W Power Supply
 - > Intel Triton VX Chipset w/512KB Pipelined Burst Cache
 - > 16MB EDO Memory
 - > 9.5GB EIDE Hard Drive & 1.44MB Floppy Drive
 - > 33.6 Fax/Modem w/Voice Mail
 - > SVGA PCI Card 64 bit w/2MB Memory
 - > 15" 0.28mm NI SVGA Color Monitor
 - > 16X EIDE CD-ROM Drive
 - > 3D Wavetable Sound Card & 60W Speakers
 - > 104+ Key Windows 95 Keyboard & 3 Button Internet Mouse
 - > Windows 95 CD & Best 10 CDs
- PENTIUM 233MMX \$ 1225 QSA01**
PENTIUM 200MMX \$ 1085 QSA02
PENTIUM 166MMX \$ 985 QSA03
AMD K-6 200 \$1065 QSA04

MOBILE MULTIMEDIA

- > 12.1" TFT Active Matrix Color Screen
 - > PCI SVGA w/2MB EDO Ram
 - > 16MB Memory, up to 198MB
 - > Toshiba 2.1GB EIDE Hard Drive
 - > Built-in Touch Pad Mouse, Built-in 1.44 Floppy
 - > Built-in 10X CD-ROM Drive
 - > Win 95 Keyboard, MPEG Card
 - > 16bit Sound Card, Microphone & Speaker
 - > Two PCMCIA II & One PCMCIA III
 - > NiMH Battery, Carry Case
- PENTIUM 200MMX \$2500 / PENTIUM 166MMX \$2395**
PENTIUM 200 \$2425 / PCMCIA FAX/MODEM ADD \$100



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THAT'S NOT A GOOD SIGN.

I SAVED A LOT OF MONEY BY HIRING A LOW-PRICED CONSULTANT.

THESE AREN'T THE BEST RECOMMENDATIONS IN THE WORLD, BUT THE PRICE WAS VERY REASONABLE.

I DON'T LIKE THIS ONE ABOUT ROLLING AROUND ON UNWASHED HAMBURGER PATTIES. KEEP AN OPEN MIND.

ALTHOUGH YOUR COMPANY IS VERY PROFITABLE, I WOULDN'T BE MUCH OF A CONSULTANT IF I DIDN'T RECOMMEND CHANGES.

YOU RECOMMEND JAILING OUR OMBUDSMAN AND DECLARING MARTIAL LAW... MAKES SENSE.

THEN COULD I SHOOT EMPLOYEES WHO MAKE PERSONAL PHONE CALLS?

IT'S OKAY WITH ME.

AS A CONSULTANT, I'M OVERPAID EVEN IF I DO BAD WORK.

WHEREAS YOU'RE UNDERPAID EVEN IF YOU DO GOOD WORK. IT'S FUNNY IF YOU THINK ABOUT IT.

I MIGHT HAVE A TERRIBLE JOB, BUT AT LEAST I DON'T HAVE ANY JOB SECURITY.

ALICE, I CHECKED WITH THE OTHER MANAGERS; THEY DON'T KNOW YOU WELL ENOUGH TO PROMOTE YOU.

SO WE'VE DECIDED TO HIRE SOMEONE FROM OUTSIDE THE COMPANY.

AT LEAST THE OTHER MANAGERS HAVE HEARD MY NAME NOW. I DIDN'T USE YOUR REAL NAME.

CATBERT: EVIL H.R. DIRECTOR
I'M HAVING TROUBLE FINDING QUALIFIED EXTERNAL APPLICANTS.

ALL I HAVE ARE A HEADLESS MAN, A MIME, AND A FROZEN CRO-MAGNON GUY WE FOUND IN A GLACIER.

DOES THE MIME BRING HIS OWN INVISIBLE CUBICLE? I LOVE THOSE!

ONLY IF WE PAY HIS RELOCATION COSTS.

HEY, SLOWPOKES! YEAH, YOU IN THE PORSCHE AND BEEMERS AND CORVETTES!

EAT MY DUST!

YOU WANT TO SEE SPEED? CHECK OUT THIS BAD BOY!

...SAYS THE MAN IN THE '85 STATION WAGON. CAR-POOL LANES MAKE ME GIDDY. SORRY.

DON'T FORGET TO CHECK YOUR CULTURES TODAY, PEOPLE.

IF EVERYONE IS READY, WE'LL RESUME OUR EARTH-WORM DISSECTION WHERE WE LEFT OFF.

NO, NO, PAIGE - THOSE AREN'T THE FRUIT FLIES, THOSE ARE THEIR MAGGOTS.

OH.

I'M SURPRISED NO ONE'S EVER TRIED TO MARKET THE "FOURTH PERIOD BIOLOGY CLASS" DIET.

ANYBODY WANT MY LUNCH?

GOOD MORNING, ROGER FOX. YOU HAVE 10,283 NEW MESSAGES.

Beep

I PROBABLY SHOULD BE SWITCHING THIS THING ON MORE OFTEN.

MESSAGE 1 TO: RFOX SUBJ: 1994 PLANNING MEETING..

OH, I WAS CLEANING OUT THE CLOSET AND I CAME ACROSS A BOX OF MY OLD RECORDS.

WHAT ARE YOU DOING?

WELL, LET'S SEE... THE BEATLES... FLEETWOOD MAC... JONI MITCHELL... HERE'S AN EARLY ELTON JOHN...

(SIGH)

I MEANT, WHAT ARE RECORDS?

YOU KNOW, I WAS ABOUT TO SAY SEEING THESE MADE ME FEEL YOUNG AGAIN.

YOU'RE HERE TO PICK UP A PIZZA? THE NAME?

FOX.

FOX... FOX... WELL, I LET MY SON CALL IN THE ORDER, SO I IMAGINE IT HAD SEVERAL TOPPINGS.

OH, WAIT - HERE IT IS.

WE COULDN'T STACK IT WITH THE OTHERS.

I SWEAR, PAYING FOR THAT KID'S COLLEGE IS GOING TO SEEM LIKE A WINDFALL.

MAYBE WE SHOULD TRY USING TWO BOXES OF RUBBER BANDS NEXT TIME.

BUNGIE JUMPING SEEMED LIKE SO MUCH FUN IN THEORY.

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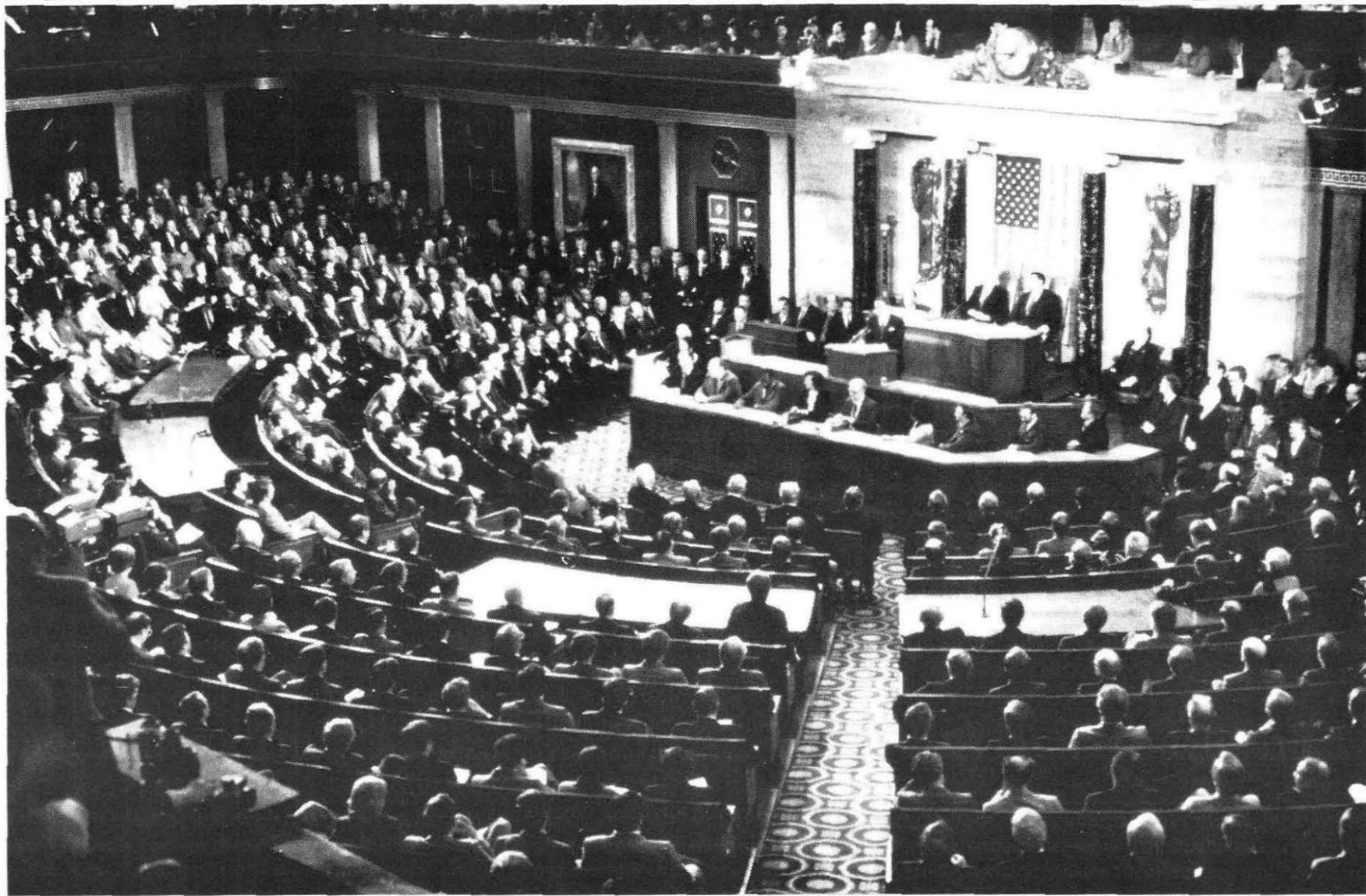
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Announcements

Nominations are now open for the offices of 98-99 **Big T Editor and Business Manager**. Interested individuals can nominate themselves by signing up on the door of the ASCIT/IHC office (SAC 33).

Free anonymous HIV testing, using an oral HIV antibody test, is available each Monday evening from 6-8 p.m. at the AIDS Service Center, 1030 S. Arroyo Parkway in Pasadena. Persons wishing to be tested may make an appointment by calling, toll-free, (888)488-9242, or (626)441-8495. Walk-ins are also accepted. Both pre- and post-test counseling is provided, and results will be given the following Monday.

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

Events

The Pasadena Fire Department will be holding an Earthquake Preparedness Training class, Today, May 1st, from 9am to noon in Baxter Lecture Hall. Attendance is limited to the first 100 people to reserve spots, so call Caprece Anderson at x6727 to reserve a spot.

Semana Latina will kick-off their week long celebrations with a free buffet followed by a speech by David Baltimore addressing "Caltech as a Living Environment" **Today** at 11:30 at the Beckman Institute. Organized by Club Latino and the Caltech Latino Association of Students in Engineering and Science, Semana Latina promises to be one heck of a time yet again.

Tom Heaton, professor of engineering seismology at Caltech, will be giving a Seismo Lab Seminar asking "**How Strong Are Faults?**" Today, May 1st,

at 4pm in the Benioff Room (256/258 S.Mudd). For more information please find the seminar's website at <http://www.gps.caltech.edu/seismo/seminars/seminars.page.html>.

☼ There will be an **AI-Anon meeting** Monday, May 4, at noon in 125 for family and friends of alcoholics. For more information call x8360.

☼ There will be an **AA meeting** on Wednesday, May 6th, at noon in 125 Steele. Bring your lunch. For information call x8360.

☼ The **Lunchtime Lecture Series** presents "**The Type E Woman, How to Overcome the Stress of Being Everything to Everybody**," by Dr. Harriet Braiker, on Wednesday, May 6th, in 110 Baxter at noon. Bring you lunch. Sponsored by the staff and Faculty Consultation Center. For information call Susan Cross, x8360, or shcross@cco.caltech.edu.

☼ The **19th Annual "Bandorama"** entitled "**jazz, Jupiter, and the Saxophone**," will be performed by the **Caltech Jazz and Concert Bands**, directed by William Bing, in Beckman Auditorium on Saturday, May 9th, at 8pm. Ashwin Vasavada, a Caltech graduate student, will conduct the Concert Band for Gustav Holst's "Jupiter," while images of the planet from the Galileo spacecraft are displayed above the stage. Admission is free. For Information, call x4652 or (888) 2-CALTECH.

☼ The **Caltech Chamber Music Program and the Caltech Chamber Singers**, directed by Delores Bing, will perform music by such female composers as Madame Billon du Jouy and Fanny Mendelssohn-Hensel on Sunday, May 10th, for their **Mother's Day concert**. Admission is free. For Information call Delores Bing, (213) 684-8964.

☼ **Ecphonema**, the Caltech men's a Capella group, will be holding a "**sing all we know**" concert on Sunday, May 10th, at Avery Dining Hall. Doors open at 7:30, **Treble Makers** will kick it off at 8pm. Sponsored by the Caltech Y, this even is free for all Caltech community, though donations are encouraged.

The Distinguished Speaker Series of Southern California is moving into its second season. The events will be held at the Pasadena Civic Auditorium on five remaining dates, at 8pm. Maya Angelou will be speaking on May 13th, and Mark Victor Hansen on June 10th. For information, call (800) 508-9301.

Mints

☼ denotes a new announcement.

For most Caltech events listed, further information can be obtained by calling 395-4652 or (888) 2-CALTECH, or through the Caltech website, <http://www.caltech.edu>. Special discounts are available for most shows for Caltech/JPL students, staff, and faculty.

Fellowships and Scholarships

☼ The **Computing Research Association Committee on the Status of Women in Computing Research (CRA-W)** is pleased to announce a new initiative, Collaborative Research Experience for Women in Undergraduate Computer Science and Engineering (CREW), designed to provide collaborative research experiences for groups of two or three undergraduate women during the 1998-99 academic year. Students will work at their home institutions with a sponsoring faculty member on a project for which monetary support is typically unavailable. Ordinarily each student will receive a \$1000 stipend. There is no support provided for faculty stipends, however up to \$500 per project may be requested for special equipment, travel or supporting materials. Entries are due by May 30. For more information, visit <http://cra.org/Activities/craw>. **FAR**

☼ **Washington Summer Science and Technology Policy Program** for advanced Undergraduates is a rigorous six-week, 7-credit program of study and writing, combined with practical internship experience and on-site briefings by people important to shaping S & T policy. It runs from June 13 to July 25, 1998. Details are available at <http://www.gmu.edu/departments/cge>. **FAR**

The **National Institutes of Health's Undergraduate Scholarship Program (UGSP)** is pleased to announce the availability of up to 15 competitive scholarships to support top undergraduate students who are committed to pursue careers in biomedical research. Awards are up to \$20,000 per year. To qualify, a student must be a U.S.

citizen, national or permanent resident, be enrolled in or accepted by an accredited undergraduate institution, and carry a GPA of 3.5 or better or be in the top 5% of his/her class. In addition, the applicant must demonstrate extreme economic need or come from a disadvantaged background. For each year of scholarship, the student will fulfill a 10-week summer research/mentoring program and after graduation, fulfill one year of full-time employment, both at NIH in Bethesda, Maryland. **UFA**

Working or studying in **New York City** this summer? Educational Housing is a nonprofit group that helps students locate safe, reasonably priced New York housing. For more info, visit www.studenthousing.org. **FAR**

Work in Britain this summer or next fall: The British Universities North America Club (BUNAC) offers a special student work permit for \$225, valid for 6 months, allowing U.S. citizens who are at least 18 years of age to legally work in Britain at any time of the year. Jobs can be prearranged, or students can just go to Britain and find jobs (most students find work within a week of arrival). BUNAC's program also provides participants with a helpful manual and a job hunting center in London. BUNAC can also prearrange your first 3 nights of lodging in London. Applications and further information are available in Fellowships Advising. Visit BUNAC's Work in Britain site at <http://www.BUNAC.org>. **FAR**

The **John Gyles Education Fund** offers financial assistance to full-time students in Canada and the United States. Full Canadian or American citizenship is required. Awards are available for all areas of post-secondary study. A minimum 2.7 GPA is required. Criteria other than academic ability and financial need are considered in the selection process. Selected students will receive up to \$3,000. To receive an application, please send a stamped, self-addressed, standard letter size (No. 10) envelope to: The John Gyles Education Fund, Attention: R. James Cogle, Administrator, P.O. Box 4808, 712 Riverside Drive,

Fredericton, New Brunswick, Canada E3B5G4. Filing dates for mailing applications in 1998 are June 1st and November 15th. **UFA**

The **1998 BFGoodrich Collegiate Inventors Program (BFG-CIP)** is seeking entries for this year's challenge. The program recognizes and rewards full-time college students (undergraduate, graduate, and postdocs) and faculty whose innovations, discoveries and research are deemed the year's most outstanding. Up to six student/advisor teams are awarded cash prizes totaling up to \$42,000. Students may enter as individuals or teams. The invention, idea or process submitted must be an original idea and the work of a student or team with his or her advisor. There is a June 2, 1998 deadline. For more information, call (330)849-6887 or e-mail pkunce@invent.org. Applications are available on the web at <http://www.invent.org/bfg/bfghome.html>. **FAR**

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

For information on the listed fellowships, assistance with essays, or clarification of questions, contact:

FAR - The Fellowships Advising and Resources Office.

For information, please contact lauren_stolper@starbase1.caltech.edu. To make an appointment, call x2150.

UFA - The Undergraduate Financial Aid Office.

For information, call x6280, or stop by 515 S. Wilson for an appointment.

To submit an event for the Mints, contact mints@tech.caltech.edu or Mail Code 040-058 by noon on the Monday prior to its inclusion. Submissions must be brief and concise, and the editors reserve the right to edit and abridge all material.

THE CALIFORNIA **TECH**

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