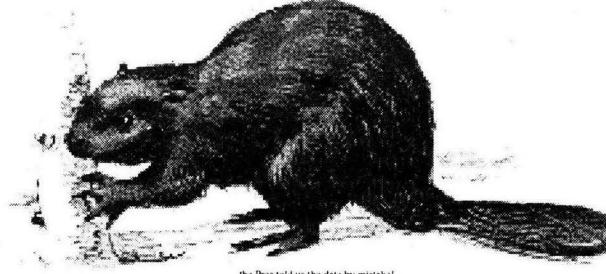


# DROP DAY! IT'S COMING UP!



BANDORAMA!  
CONCERT THIS SAT. AT BECKMAN  
8 PM

# The California Tech

VOLUME CII, NUMBER 26

PASADENA, CALIFORNIA

MAY 11, 2001

## TEACHERS INVADING CUSTOMER SPACE...?

BY IRAM PARVEEN BILAL

"Being right next to Caltech, students were spending way too much time in the café and customers were complaining there was no seating!"

The above is a direct quote from Sean Green, the inventory supervisor for Borders Books and Music store. It was a part of an article published in the Monday, April 30, 2001 edition of the *Pasadena Star News*.

This false allegation on the Caltech student body was observed by Tom Mannion, the Director of Business and Auxiliary Services. When asked about the whole issue, Mannion replied, "My strong feeling is that this is totally wrong. There is absolutely no evidence of students going and studying there in mass quantities."

In fact, most of the undergraduates work on their homework in the undergraduate houses. As far as the graduate students are concerned, Mannion said that he knows a vast majority of them and rarely finds them in Borders.

The article in the *Star News* mentioned the problem of students taking up seating space for customers in bookstores all over the country. However, it also quoted that some of the store managers feel pleasure that they are able to target their main future customers, that is students, and that they find it fulfilling to be able to cater to their needs even if it is just providing a table to do homework.

In a similar student-friendly statement, Mannion said, "If indeed we find out that there are groups of Caltech students losing opportunity to study elsewhere, we would strongly consider extending the hours of our own facilities such as the Red Door Café!"

Though the article mentioned PCC, which is also relatively close to the store, what is upsetting is that they have directly targeted Techers as being one the main causes of their customer complaints. This seems ironic as Techers are hardly found there in reality. Mannion pointed out

## New student center in planning

BY RUMI CHUNARA

A student center is next in the plans for improving Caltech's campus atmosphere.

Designed to serve many purposes, including a meeting place for students, the center will finally give students what those in many larger universities already enjoy: the privilege of having a common place to meet that also brings together many useful facilities.

The new center will be located where the Physical Plant currently exists, behind Chandler Dining Hall. It will also draw together many offices that presently exist at various disparate locations around the campus, including the Visitors' Center and the Credit Union. This will prove to be more convenient for all of the student and faculty in the Caltech community.

In addition, the center will provide the campus with new facilities that have been needed for some time. The arts here at Caltech will appreciate the construction of a music performance hall, something the campus desperately lacks as of now. New music practice rooms and offices for the theatre arts will also be located in the student center. There has been concern

by many of the lack of adequate facilities for the performing arts on-campus, but the future of the current music practice rooms and offices in the Student Activities Center is unsure for after the new student center has been built.

The center will also house conference rooms and a place for art exhibition, both of

which have no current place in the campus. An interesting addition to the building will be a contemplation center to serve a purpose such as that of a chapel or temple for all students. The proposal for the new center should be finalized before this summer and is currently being worked on

by a committee very representative of the campus community. The chair, Paul Jennings, who is a Professor of Civil Engineering and Applied Mechanics, commented that the center would be a coalescence of interest that will be inviting to the entire community around Caltech. Currently, the committee of physical plant em-

ployees, other faculty, and a few students are working on reducing the proposed cost of the center.

The source for funding has not yet been determined, preventing a date for the construction from being set. However, once this is resolved, the construction time is projected to be two to three years.

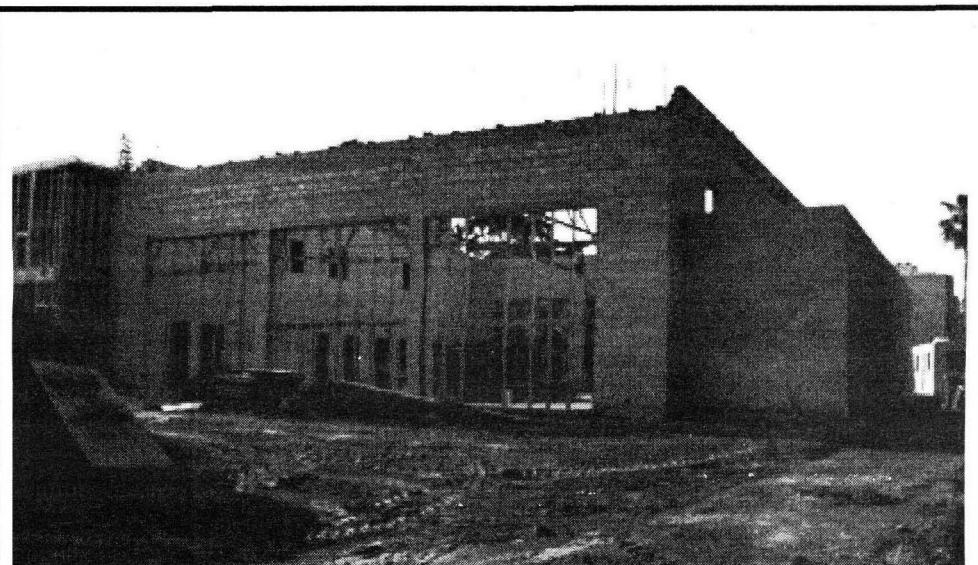


PHOTO BY ERIK DILL

Under construction on the Southeast corner of Holliston and Del Mar stands the new Fire Station 34. The approximately 14,000 square foot three bay station will accommodate eleven personnel working in three shifts. Initially, the station will sleep six and house a fire engine and a rescue ambulance. The station should be completed in December of this year with hopes to occupy the station by January of next year.

--by Courtney Folgerman

## What if Ratio were 10:1?

BY JON FOSTER

Ask Caltech students what the biggest problem with life at Tech is, and you'll probably hear "the Ratio" as one of the responses. Ask the leaders of several major universities the same question, and you might just get the same response.

Earlier this month, Princeton chose Dr. Shirley M. Tilghman, a molecular biologist, to be the institute's next president - a newsworthy announcement largely because she is only the second woman ever to lead an Ivy League school. She is also regarded as something of an unconventional choice; she has argued that tenure is "no friend to women" because the years leading up to a tenure decision normally conflict with a woman's childbearing years.

Her theory is one attempt to explain the extremely low rates

of women professors at many universities. This problem is a common plague of science and engineering schools, and Caltech is certainly one of the most afflicted. According to David Baltimore's statement in the April 19th issue of *Caltech36*, a scant 11% of the professors here at Tech are women, a figure which makes the undergraduate ratio look reasonable.

Baltimore quoted this figure while commenting on the resolution Caltech signed earlier this year in an attempt to increase diversity among all under-represented minorities, particularly among women. This resolution is entitled the "Statement on Gender Equity in Academic Science and Engineering." It was signed by the leaders of Caltech, MIT, the University of Michigan, Princeton, Stanford, Yale, UC Berkeley, Harvard, and the

University of Pennsylvania and reads:

"Institutions of higher education have an obligation, both for themselves and for the nation, to fully develop and utilize all the creative talent available. We recognize that barriers still exist to the full participation of women in science and engineering. To address this issue, we have agreed to work within our institutions toward:

"1) A faculty whose diversity

reflects that of the students we educate. This goal will be pursued in part by monitoring data and sharing results annually.

"2) Equity for, and full participation by, women faculty. This goal will be pursued in part by periodic analysis of data concerning compensation and the distribution of resources to faculty. Senior women faculty should be significantly involved in this analysis.

PLEASE SEE DIVERSITY ON PAGE 2

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## ASCIT NEWS

A.S.C.I.T.  
Minutes

MAY 7, 2001

Present: BoD. Guests: Melissa Soriano, return of the coffee-house/party girl; Agedi Boto from NSBE; Jon Dama in defense of ugly donuts on the webpage; Al Valdivia, trying to eke more cash out of ASCIT; Mark Barrett, random guest; Jonathan Lee and Andrea McColl, peeking in briefly, to pick up funding.

Meeting called to order at 5:20 PM.

## Guests

NSBE and CLASES are hosting a joint party in Dabney Hall on May 19th, the first in five years. The preliminary flyer is entitled "Shake Ya Astrophysics," so get ur freak on. The party has received no funding for alcohol so far. ASCIT will fix that.

Melissa's plans for a coffee-house party on Saturday May 12th fell through because a freshmen Ruddock party and a Semana Latina event are scheduled for the same time. To prevent cuts to funding and alcohol allowances, Melissa is moving the party to Friday night, May 11th instead. 3 kegs + vodka + tequila = floor.

Al started a new club entitled the Athenaeum Student Waiter's Association, which will be holding its first social event to promote mingling between the newbie waiter recruits and some of the old hands and to honor two supervisors who will be leaving. He asked for \$100 for a BBQ. He then brought up the deficiency in cleaning of off-campus Caltech-affiliated housing. Note to administration-undergraduates are dirty,

we don't want to live in our own filth.

\* Jon Dama was found guilty of posting a picture of an ugly donut on the webpage. That is an offense punishable by a Martha-Helene tirade. As a remedy, pictures of fresh, ASCIT-endorsed donuts will be taken.

## General Meeting

Ted's mandate to the Web Development Team to place registration for the ASCIT formal online has been successful. ASCIT members will be able to pay for the formal through the web with UIDs, but a concern is raised that faculty and staff may not be as willing to log into [donut.caltech.edu](http://donut.caltech.edu) and create an account. These are the people who never caught onto the craze to shop in your underwear.

Martha-Helene talked briefly with Yuki concerning the existence of the Student-Faculty Advisers Committee. The Deans say that it doesn't exist though Yuki believes otherwise. A proposal for a new course, CS 11, which will give students freedom to program in a language of their choice, was met with dismay in the ARC. The class may not be theory-centric, but is only designated as 3 units. Other items on the ARC agenda include meeting with the Humanities and Social Sciences Chairman about the future of the Russian literature class, and soliciting people to serve as upper-class options advisors. A list of option representatives will hopefully appear in frosh packets so that those of us who realize that studying physics will kick our ass will have people to talk to.

A survey of graduate students revealed that 80% of them would be interested in in-depth shadowing of recruiting companies. The now-former GSC president was able to sit in on conference calls

during a recent company visit. A systematic shadowing program for graduate students is likely to be created, and the program may be expanded to graduating seniors, provided that companies are willing. Selective criteria will be put in place so that students will be prevented from randomly terrorizing companies in which they are not interested in working.

Treasurer report. Ayeh is gathering more information about the ASCIT tax audit. ASCIT also recently received dues from the first two terms, and found that there is one student who is not an ASCIT member. You are the weakest link... goodbye.

UDAL. After a meeting with Hall Daily, Martha-Helene, and Erik Dill, Todd came to a conclusion that the best way to ensure that last year's *Big T* will come out is to fly Nicholas Breen or Wren Montgomery, previous *Big T* editors, to Caltech for a weekend. Erik Dill is currently in the process of reconstructing layouts for pages yet unsubmitted. Consequently, it will not come out before this year's senior class departs, resulting in double-mailing. More reason for non-postal workers to go postal.

Justin's minutes are too long, so says Todd. I stand before you as a compulsive writer...

FDAL's rantings. Joe is trying to coordinate a book migration from the room used by the physics TAs to the newly designated club room. Organization of the upcoming ASCIT Beach Trip, slated for May 19th, has been delegated to his Froshcom. Appeals to the GSC for money and labor, and to the Y for labor have been made. Consequently, not much room for the frosh to screw up.

IHC stuff. Committee sign-ups for freshmen admissions, upper-classmen admissions, UASH,

grievance, etc. will come down before you read this. Interviews for the positions will be taking place in the near future. Selections for Frosh Camp will be under the jurisdiction of IHC rather than the Deans' Office so that all of the Houses will be sending roughly the same number of people. This includes house representatives and members of Challenges and Choices. Also, extra spaces for unaffiliated representatives will also be created. A recommendation to the IHC for keeping track of committee attendance is made, but not formalized due to the irregularity of committee meetings. IHC would like to grant the committees autonomy, but students appointed are welcome to provide feedback concerning schedule conflicts and inconvenient committee meeting times.

Martha-Helene's concerns. Last week, Martha-Helene met with her ExComm. They would like to see advertising for people's complaints against ASCIT (sorta like putting a giant bullseye on your forehead, don't you think?) such as Bylaws violations. At a meeting concerning delegation of space in the soon-to-be-constructed Campus Center, ASCIT was granted "a quiet place" on the second floor. All that the grad students got was a lounge. A color copy of the blueprints for the Campus Center is passed around the room, accompanied by mandatory 'oohs' and 'ahhs'.

Allocations. A \$1500 portion of the budget was designated for on-campus events, roughly \$500 for each term. Accordingly, the NSBE/CLASES party and coffeehouse shindig will receive funding out of this portion of \$300 and \$250, respectively. However, at the discretion of a 5-3 vote, the Athenaeum Student Waiter's Association will not receive funding

because ASCIT seeks to squash the confidence of Al Valdivia. That and the fact that granting such funding may set a precedent for other groups to unionize and ASCIT is not prepared to play the role of Republicans.

An appeal to the student body. Kim West is looking for volunteers to plan lab tours, trips to JPL, on-campus orientations, etc. before and after Frosh Camp for the incoming students. The events, grouped under the heading Caltech 1A, will be organized by undergrads primarily over the summer and the job will consist of emailing departments and getting permission for large groups to visit premises as part of the ResLife Office's orientation. Interested students should contact the ResLife Office or local house presidents.

Meeting adjourned at 7:08 pm, to be followed by book moving.

Evidently,

Justin

## THE CALIFORNIA TECH

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Letters to the Editor: 6 p.m. Tuesday  
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We live for the One. We die for the One.

MEET THE NEW  
EXCOMM

To All Members of ASCIT, I would like to introduce you to the members of this year's Executive Committee of ASCIT: Derek Shannon, Liz Stameshkin, Martha-Helene Stapleton (ex officio), Dan Stick and Al Valdivia (Chair). This Committee is charged with interpreting the ASCIT Bylaws and has the sole power to consider the validity of any protests that may arise. As Chair of this committee it is my hope that any ASCIT member who feels that they have witnessed or have knowledge of a bylaw violation or have any other questions or concerns regarding the bylaws will approach either myself or any other member of the committee to discuss the matter, thank you.

Al Valdivia Executive Committee Chairman

## Hey You!

Do you love hand-delivered  
midnight donuts?

Can you spell (sort of)?

Come work for *The California Tech*,  
Caltech's finest news establishment.

"We'll Kick Your ASCIT"

## ARC NEWS

**ARC Minutes**

ARC Meeting Thurs. 5/3/1  
10:00PM

Present: Nick Knouf - Chair Al Valdivia - Secretary Tim Crosby - Blacker Rep Ves Sok - Rudock Rep Clinton Conley - Lloyd Rep Jon Lee - Dabney Rep Ali Hassani - Ricketts Rep Isaac Hilburn - Fleming Rep Iram Parveen Bilal - Page Rep Justin Ho - Rep-at-Large Larry Stewart - Rep-at-Large

**Teaching Awards:** Teaching Awards are turned in from all houses except Ricketts, which never received forms because their rep didn't show up to the initial ARC meeting. Tim donates the extra Blacker sheets to Ali for Ricketts. Nick says that nominations will be extended until the 11th on the web and through paper forms for Ricketts. The awards will be presented by Nick at the June 14th Faculty meeting. Iram mentions that we should advertise more through emails and flyers.

Isaac Hilburn, Fleming Rep, leaves.

**Student-Faculty Committees:** Nick pulls down sign-ups and sees that we have 56 applicants so it is decided that we will hold two two-hour sessions to interview candidates on 5/8 (T) at 10PM and 5/9 (W) 10:30PM with Nick requesting statements from the candidates ahead of time.

**Student-Faculty Conference:** At the May 14th Faculty meeting Nick is going to propose a Student-Faculty conference to be held on Feb 1, 2002. Several (3-4) committees composed of

undergrads, grads and staff will be formed early first term to carry out research and surveys in anticipation of presenting reports at said conference on issues ranging from academics to student life.

CS 1: Clinton reports to us from the Curriculum meeting and states that CS 11 has been officially approved for next year. The course will be in the form of a self-motivated lab performed in a language of the students choosing for 3 units. There is a consensus among the ARC that we should approach the Curriculum Chair Harvey Neumann to see what his views are on this topic. Al mentions that any deadlines that have been missed are probably flexible as there are courses added as late as week 1 of the term that they are offered. There is a proposal made of exploring the possibility of a dept. besides CS offering a programming course. The most obvious choice is E&AS and so Nick will make an effort to contact the chair Richard Murray and see if he would be receptive to offering a strictly programming course or, ideally, a one-year programming track such as E 1,2,3 taught by an E&AS prof or maybe even a CS lecturer.

Russian 1: Tim states that the H&SS chair (Ledyard) has expressed interest in meeting with him, Nick and Leon Bellan regarding the concerns that have been raised regarding Russian some time between May 11-29, with Nick and Tim favoring a meeting sooner rather than later.

**Faculty Advisor:** Jim Bower has agreed to be the new ARC faculty advisor and we will organize a lunch meeting with him sometime in the near future after Nick has met with him to discuss the ARC on a one-on-one basis.

**Upper Class Advisor/Option Books:** The Upper Class Advisor and Option Book ideas are proposed to be melded with the advisors also being asked to put together the option book, everyone agrees that the two projects are sufficiently related to be successfully combined. Hopefully the new list of Upper Class Advisors could be emailed out and included in one of the info packets admissions sends out, ideally with the registration so that everyone is guaranteed to receive it. It is also proposed that we have links to the different options and the Clue on the ARC website as well as an on-line advisor sign-up form.

Bi 1: Iram raises the issue that it is no longer possible to pass out of Bi 1 by providing a good score on the AP Bio and writing a term paper. This appears to be because the Bio department sees this as a way for a lot of students to pass out of all exposure to the major and consequentially limits their ability to recruit for the major. It is proposed that Bi 1 be treated as how the Math, Physics and Chem core classes are currently treated, with incoming freshman having the option of taking an exam the summer before to place out. The ARC decides to wait to present this issue to Jim Bower as it falls within his department and he could provide us with the proper individuals to pursue our concerns with.

**ARC Announcement**

The ARC would like to announce the newly appointed members of the following committees.

**Student/Faculty Advising:** Anita Choi, Rumi Chunara, Martha-Helene Stapleton, Sindy Tang

**Library:** Lailani Arcia, Isaac Hilburn, Sui Hui Tan - Alternate

**Academic Policies:** Lusine Danakian, Angel Kong, Si Hui Tan - Alternate

**Curriculum:** Elisa Chan, Clinton Conley, Tim Raub, Lisa Wang - Alternate

**Educational Outreach:** Lusine Danakian, Al Valdivia, Neda Afsarmanesh - Alternate

**Core Curriculum Steering Committee:** Chris Elion, Rachel Thessin, Helena Kauppila - Alternate

**DIVERSITY+**

CONTINUED FROM PAGE 1

"3) A profession, and institutions, in which individuals with family responsibilities are not disadvantaged.

"We recognize that this challenge will require significant review of, and potentially significant change in, the procedures within each university and the scientific and engineering establishment as a whole.

"We will reconvene to share the specific initiatives we have undertaken to achieve these objectives."

To better live up to the challenge of this statement,

President Baltimore has announced the formation of the President's Diversity Initiative Fund, which will be supported partially by a diversity award which Caltech recently received from the James Irvine Foundation. According to Baltimore, this money will "support new initiatives brought forth by faculty, staff, or students related to Foundation. According to Baltimore, this money will "support new initiatives brought forth by faculty, staff, or students related to increasing diversity on-campus." Parties with ideas should contact the President's office directly to inquire about funding.

**Music to My Ears!**

BY NIKY MORGAN

The Group: G. Love & Special Sauce

The Album: *Electric Mile*

The Single: "Unified"

The Website: [www.g-love.com](http://www.g-love.com)

Stand-out Track: "Night of the Living Dead"

A dusky humidity settles on suburbia, and a solo viola mourns the unease that pervades. An anxious percussive line joins the viola, and other strings create a dissonant paranoia. Are those footsteps behind you? The fear is palpable, and dogs bark in alarm. But the percussion melts into a bongo drum. Instead of strings, a melodic guitar riff crafts a tropical

groove. You are transported from this cemetery suburbia onto a breezy beach at night.

G. Love and Special Sauce plants these images in the mind of the listener with a mere 30 seconds of "Night of the Living Dead." In this song G. Love warns us not to let the zombies steal our souls, changing the people that we have grown to be. G. Love knows where he has been and nothing can take his life away from him. Aside from its startling tone contrasts, this song is also notable because it is not written by G. Love (Garrett Dutton) but by the drummer, Jeff Clemens.

Other songs boast the same vivid imagery as "Night of the Living Dead" In "100 Magic

Rings," G. Love praises his true love for being a real woman and for letting him be a real man. Though the chorus is somewhat repetitive ("100 magic rings/100 magic rings/100 magic rings/She make me feel like I'm wearing/About 100 magic rings"), it expresses incredible emotion. We can feel his breathless disbelief and the butterflies in his stomach. This feeling intensifies from the verse to the chorus. The chorus plays once, then an electric guitar kicks in for the second repetition creating a truly magical, ethereal mood. The listener is in another world where elves, leprechauns, magic rings, and women who let men be themselves truly do exist. She takes G. Love away from the world when his day is done, and this song takes the listener away from his world.

G. Love and Special Sauce comments that "*Electric Mile* is a 13-song statement of all [our]

favorite musical forms: blazing hip-hop, roots reggae, folk with a touch of country, and blues with a taste of jazz." Though this album is eclectic, don't expect any song to delve too deeply into specific genre. This is an extremely enjoyable album for fans of alternative music. In many songs, I heard echoes of groups like Sublime, but G. Love and Special Sauce have a larger dynamic range and can vary style more easily than most alternative groups. I definitely recommend this album for mature listeners. Beware: this album earned a parental advisory for a foul word uttered on one track!

You should buy this album if: You enjoy albums that span a range from mellow to high-energy.

You think too few albums today spotlight harmonica solos.

You want a good product that is uncommercial.

**TEACHERS:**

CONTINUED FROM PAGE 1

that it was unfortunate that they assumed that whatever was going on was fundamentally because of Caltech students despite the major concentration of schools like PCC, the Arts Center, and high schools around the area.

When further questioned about his reaction to the false statements quoted in the article, Mannion asserted, "While we certainly encourage the campus to use and enjoy benefits here, we also encourage them to enjoy what's out there. It is therefore unfortunate that we are being singled out as having a negative impact on businesses like bookstores in the off-campus area."

He finally said that he would have a conversation with Borders to see if they really have any serious issues with Caltech that could be resolved through cooperation.

**JAPANESE**  
WOMEN NEEDED (NOW or this SUMMER) !!!

Physician is assisting a couple wanting to start a family. PLEASE HELP!!! Inquire "donor program" at website [www.physician.yourmd.com](http://www.physician.yourmd.com) or toll free (800)862-5158.

## FEATURE

# Playing God!

• A COMPUTER GAME REVIEW •

BY TOM BORCHER AND  
ADAM YATES

In an effort to provide news in current electronic entertainment, we wrote up this review of a popular new PC game. After more than three years in development, Peter Molyneux, the creator of the successful Populous series of games, released his latest creation in late March. Continuing a genre that Molyneux invented, Black and White is the next generation of god-sim game that mixes elements of adventure, role-playing and strategy. The development time was spent crafting a sophisticated game engine comprised of revolutionary graphics, physics, and artificial intelligence systems as well as a captivating story.

The story follows the player as a god trying to earn the belief of the inhabitants of a primitive world so that he may become the sole god of that world. A god earns belief by making his subjects love and respect him or by making them fear his divine power. Through direct interactions with the game-world and its inhabitants, the player chooses his moral path. These

interactions come in the form of manipulating trees, rocks, livestock, and even people, and on a larger scale performing miracles that can be a blessing or a curse for the villagers. For instance, the player could impress a village in need of food by filling its stores with grain or watering its fields with a miraculous shower, or instead he could hurl a fireball towards the crowded town center thus reducing the number of hungry mouths to feed.

The end goal of each stage of the game is to gain complete control over a region of the world by systematically winning each village from other gods. But even after winning a town's belief the player must continue to tend to its needs, as a neglected village can easily be lured away from the player's control by a rival god.

To aid in his quest the player has a creature: a tiger, ape, cow, or one of many other animals that can perform the same actions the player can. At the beginning of the game, the creature doesn't know how it should act but soon learns which actions are favored by the player through a punishment-and-re-

ward system. If a creature is rewarded for eating fish and punished for eating villagers, it will be much more likely to eat fish when it is hungry. If trained well, the creature can be a very valuable aid in gaining and keeping the belief of villages. The creature is perhaps the most innovative and interesting aspect of the game. Simply watching it interact with the world and do the tasks that you have taught it can be very fun.

The graphics in Black and White are one of its most striking features. Trees sway in the wind, the water ripples at your touch, and the creature and villager movements are very detailed. The game engine also allows the player to seamlessly zoom in from miles above the landscape down to focusing on a single villager without losing any of this detail along the way.

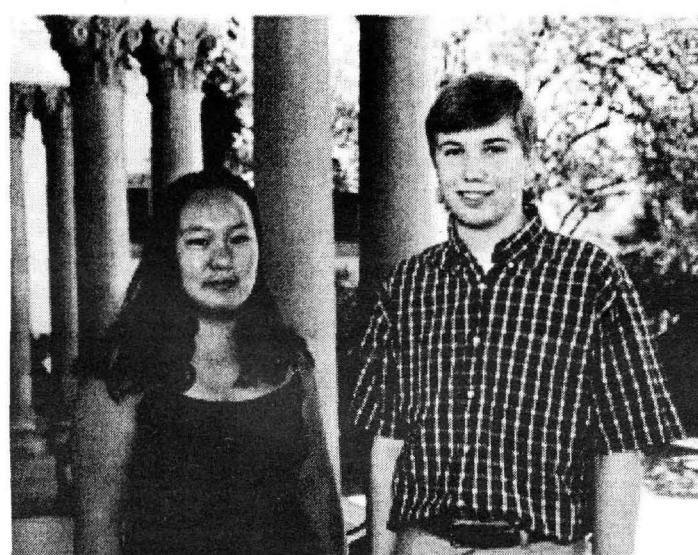
All these elements combine to form a unique and enjoyable gaming experience. The many choices and the free-form style of gameplay ensure that every player can approach the game in his or her own way. After playing through a good portion of the game, it is obvious to us that it was well worth the wait.

## Bibi Jentoft-Nilsen Memorial Award

Family and friends of Bibi Jentoft-Nilsen, class of 1989, have provided this award in her memory. The award is for an upperclass student who exhibits outstanding qualities of leadership and who actively contributes to the quality of student life at Caltech. This year's winner is Bryan Eastin, senior in physics. Bryan has given a great deal of service to the entire Caltech community by participating on many committees and working hard on behalf of all students. His service to the Caltech Y with decompression and his involvement in alternative spring break has made a difference to the quality of campus life for undergraduates.

## Frederic W. Hinrichs, Jr. Memorial Award

The Board of Trustees of the California Institute of Technology established the Frederic W. Hinrichs, Jr. Memorial Award in memory of the man who served for more than 20 years as Dean and professor at the Institute. In remembrance of his honor, courage, and kindness, the award bearing his name is made annually to the senior who throughout his or her undergraduate years at the Institute has made the greatest contributions to the student body and whose qualities of character, leader-



ship, and responsibility have been outstanding. The awards are presented at commencement. This year's winners are Mark Barrett, senior in engineering

ership and service to his fellow students during his time at Caltech. In particular his role in implementing the new Conduct Review Committee (CRC) is particularly admirable.

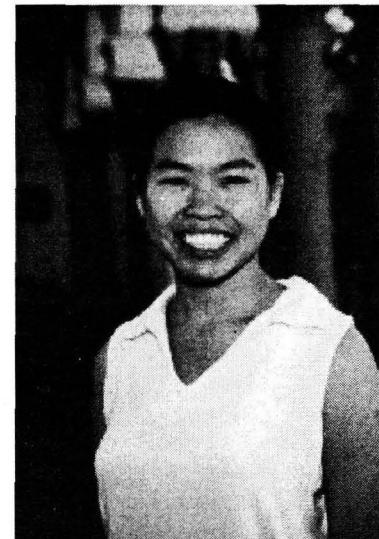
Iijie was selected because of her exceptionally capable leadership and service to the students during her years at Caltech. She has held numerous important offices and served on committees. In particular Iijie's participation on the UASH committee and Caltech Admissions committee is particularly admirable.

and applied science and Iijie Kim, senior in biology and literature.

Mark was selected because of his exceptionally capable lead-

## Catech Students Recognized for Excellence in Leadership and Involvement in the Caltech Community

### Mabel Beckman Prize

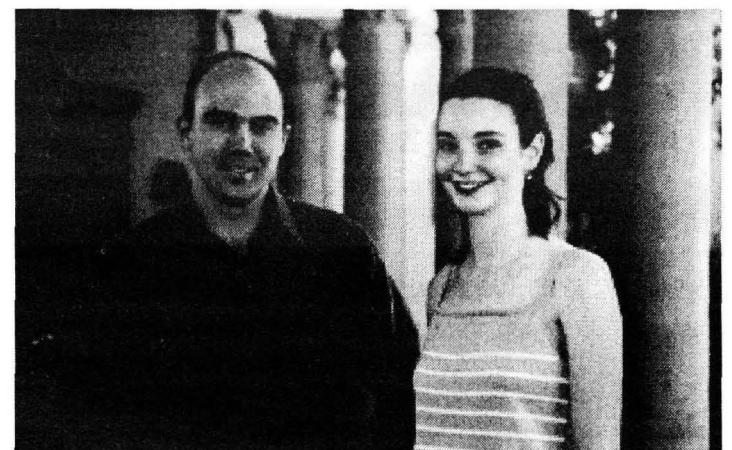


The Mabel Beckman Prize is given in memory of Mrs. Beckman's many years of commitment to Caltech's educational research programs. The prize is awarded to an undergraduate woman who, upon completion of her junior or senior year at Caltech, has achieved academic excellence and demonstrated outstanding leadership skills, a commitment to personal excellence, good character, and a strong interest in the Caltech community. The prize is awarded at commencement. This year's winner is Jit Kee Chin, senior in physics and literature. Jit Kee was selected for the qualities of outstanding leadership and service that she has shown her four years at Caltech. Her participation with the international student programs for two years as a volunteer for international student orientation is particularly admirable. She is also being recognized for her work with the Ballroom Dance Club. She helped to establish ballroom dancing as a substantial activity at Caltech.

.....

### Deans' Cup and Residence Life and Master's Award

Two awards, selected by the Deans, the Director of Residence Life, and the Master, respectively are presented to undergraduates who have demonstrated concern for their peers by persistent efforts to improve the quality of undergraduate life and by effective communication with members of the faculty and administration.



Winners of the Deans' Cup: Heather Graven, senior in chemical engineering and Alec Muller, senior in engineering and applied science.

PLEASE SEE FOLLOWING PAGE

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## FEATURE

# Money is Everything

BY JIALAN WANG

Most of the time we think of language as a reflection of our thoughts and of the world we live in, but to what extent does language actually change the way we view the world? This idea was explored in the classic novel 1984 by George Orwell, in which the government controlled people's thoughts by restricting the vocabulary. The premise of that novel – one of my personal favorites – is that if you can't say it, you can't think it. Certainly in my experience, translating my abstract thoughts into words makes me think about my ideas much more thoroughly and forces me to crystallize them more fully (although these points might be disputed, heh). Although I wouldn't go as far as George Orwell did, I do think that language is much more than an objective mirror for the world around us, and that it, in fact, may influence our view of the world as much as the actual objects and events that we experience.

One of the most powerful and interesting ways that language affects us is through metaphor. Not just the kind of metaphors we all so painfully studied in AP English, but a much more universal usage that pervades our

everyday speech. To me, some of the most noteworthy and widely used metaphors in our culture are those related to money, the most prominent of which is the old cliché, "Time is money." This particular metaphor originated back when wages were first introduced as a method of earning a living, but since then money has come to be a powerful metaphor throughout our lives, subtly shaping the way we view the world. (In case you're wondering, I am in Ec 11 this term, but that's beside the point.)

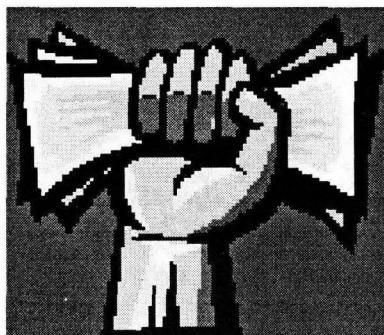
For example, we usually refer to spending time with someone and saving time by not going to class, and although the usage is a little passé now, some people still use spent as a synonym for exhausted. In other rather obvious instances, we might refer to a problem set costing 10 hours of sleep, owing a favor to a friend, or selling our souls to the Ma 2 Anal demon. We now not only pay for goods at the store, but we pay our respects, pay attention, and pay for gloomming other people's girlfriends. Many times we even describe people as being worthless. Relation-

ships are also increasingly becoming like market economies. Affection is supplied, demanded, owed, borrowed, won, lost, earned, and paid. Thus, we subconsciously think of time, souls, and even love as limited and valuable commodities to be traded instead of shared or experienced.

But now we need to ask ourselves, are the money metaphors really adequate? Even more fundamentally, do they even make sense at all? Personally, I

don't think money is necessarily a bad thing. It is a very useful tool to exchange our own labor for things that we want and need. Moreover, since money is the closest thing we have to a universal measure of value, it seems natural to use the language of money to describe the value of notions that are more abstract.

However, money is definitely not all there is to life, and many of the most beautiful aspects of life cannot at all be described in economic or monetary terms. For example, it is useful to think



*The Fannie and John Hertz Foundation takes great pleasure in announcing its fall 2001 Fellowship awards:*

*Mr Joel Austin, graduate student studying chemistry from the California Institute of Technology and Mr Douglas Behenna, graduate student studying chemistry from the California Institute of Technology are two of 21 Hertz Foundation Fellows chosen from a field of 570 applicants to receive a five year, \$200,000 Graduate Fellowship award in the applied physical sciences. The Hertz Foundation would like to extend its congratulations to the California Institute of Technology for attracting these fellows to their graduate programs.*

of time as a finite resource and as something that should be valued, but time is a fundamentally different creature than ordinary commodities, and the money metaphor only captures a small part of the essence of time. Furthermore, many facets of life are clearly valuable and important, but their value cannot meaningfully be reduced to some real price so the metaphor of money is not appropriate in these contexts. People are perhaps the easiest example of this.

Although one might be able to put a value on some certain skill or asset that a person possesses, what is the value of an entire person's life? The question doesn't really even make sense.

Thus, although the money metaphors are compelling and insightful for many aspects of life, it is important to realize that metaphors are just tools to better understand the world, not inclusive definitions. We understand feelings and abstract concepts like time and love better by associating them with concrete notions like money, but the full scope of the abstract notions are much more than the sum of the metaphors we use for them. For some interesting reading on metaphors and related topics, check out *Metaphors We Live By*, written by Lakoff and Johnson.

PS: Look, Dean Revel! I'm citing references too!

## Yoghurt

BY HENDRICKSON &amp; STOCK

If you're at all like me, you have never performed with the New York Philharmonic, the Philadelphia Orchestra, the Chicago Symphony, the Boston Symphony, the Cleveland Orchestra, the Los Angeles Philharmonic, the San Francisco Symphony, or the Pittsburgh Symphony; much less the Berlin Philharmonic, the Vienna Philharmonic, the Royal Concertgebouw Orchestra, the Leipzig Gewandhaus Orchestra, the Orchestre National de France, the London Symphony Orchestra, London Philharmonic, or the Philharmonia (Heck, you're lucky if you can find half of these places on a map if you really are anything like me). Nonetheless, at the LA Philharmonic this weekend you can see the artistry of Sarah Chang who has done all of this and more by the age of twenty. Why is she here though?

Well, it turns out that the LA Philharmonic will be having her here to perform in a concert featuring the music of Felix Mendelssohn and Joaquin

remarkable achievements spanning his lifetime.

Mendelssohn is a much more well-known character. The Romantic composer had a relatively short life dying at 39 in 1847. He was definitely one of the most successful composers of the 19th century. None of the setbacks and disappointments that came to most of the other composers of the period beset him. Unfortunately, those setbacks might have been nice to have every once in a while as many associate his death with fatigue from overwork to meet all of his demands. Note that you can use this story to explain to your parents why it's actually good that you're failing a few classes.

Anyway, performances are Friday at 1PM, Saturday at 8PM, and Sunday at 2:30PM. Tickets are \$10.

Stay tuned next week for one of the most exciting events to happen in the past few million years.

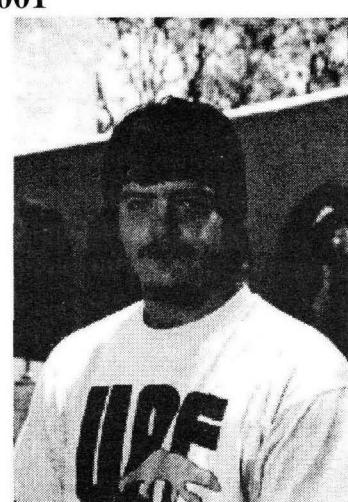


Winners of the Residence Life and Master's Award: Virginia Rollins, sophomore in engineering and applied science Andrew Wright, junior in mathematics.

Melinda Turner



2001 Doris Everhart Service Award



Geoffrey Irving



## COMICS

**DILBERT®** by Scott Adams**FoxTrot** by Bill Amend

**Panel 1:** Boy, did I luck out!  
How's that?  
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**Panel 2:** Dad talked me into playing golf with him this weekend, but the forecast says there's a 100 percent chance of torrential rain!  
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**Panel 3:** I mean, there's no way he'll want to play, right?  
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**Panel 4:** How I hate that laugh.  
I wish they'd make scorecards out of plastic.  
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**Panel 5:** You'll impersonate our dead customer and make large purchases from us.  
www.dilbert.com scottadams@aol.com

**Panel 6:** I've never done anything like this before.  
www.dilbert.com scottadams@aol.com

**Panel 7:** It's called "work."  
Am I doing it right?  
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**Panel 8:** Dad, it's pouring rain!  
Nobody plays golf in weather like this! Nobody!  
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**Panel 9:** I know! Isn't it great?! We have the course to ourselves!  
You really don't want me holding clubs today, dad.  
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**Panel 10:** Wally's in jail for impersonating a dead person.  
www.dilbert.com scottadams@aol.com

**Panel 11:** He'll have to use all of his street smarts to survive.  
www.dilbert.com scottadams@aol.com

**Panel 12:** I'll need some temporary tattoos. Which way is the gift shop?  
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**Panel 13:** Nice shot, son! Right in the middle of the open fairway!  
Figures it's on the day when I'm trying to put it under a tree.  
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**Panel 14:** Wally's in jail. Can you help get him out?  
www.dilbert.com scottadams@aol.com

**Panel 15:** Tell him to try the door. The guards only pretend to lock them.  
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**Panel 16:** But I'd have to say it was the lifers who were the most embarrassed.  
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**Panel 17:** Woooo! A hole-in-one!  
How can you tell? The whole green's under 10 feet of water.  
If you'd like to swim down and disprove me, be my guest.  
HOLE 10  
© 2001 United Feature Syndicate, Inc.

**Panel 18:** Now I know why you like playing in this weather.  
And to think I usually shoot a 12 on that hole!  
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**Panel 19:** Wally, now that you have a criminal record, I can't let you work on anything important.  
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**Panel 20:** I don't have a criminal record. I gave the police a fake name.  
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**Panel 21:** You might notice a change in the quality of your assignments.  
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**Panel 22:** I think I need a taller tee.  
What you need is a psychiatrist!  
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**Panel 23:** There aren't enough friendly people to fill our call center jobs.  
www.dilbert.com scottadams@aol.com

**Panel 24:** All we can find are angry people who refuse to put their telephone headset microphones near their mouths.  
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**Panel 25:** No, I'm sure the problem is on your end.  
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**Panel 26:** Oh, come on, Peter. Someday you'll look back on this and laugh.  
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**Panel 27:** Maybe not today, maybe not tomorrow, maybe not a week from now, but someday.  
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**Panel 28:** Sort of like when my clothes will be dry.  
Actually, the clothes might take longer.  
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## DEAN

## Dean's Corner

Pisos mojados<sup>1</sup> and other hazards

by Jean-Paul Revel

cause tomorrow

is Saturday and I don't think there ever has been a Ditch Day on a Saturday. There would be no excuse for ditching of classes, so what would be the point, eh? With every passing tomorrow, however, other than Saturdays or Sundays, it is ever increasingly likely that mañana will be The Day.

Ditch Day is only a semi-official holiday. It is not in the Catalog and some profs are incredulous when we tell them that they should not hold classes etc... Like all other holidays, it provides a release from the daily drudge. How special a day it is can be judged by the fact that I have never, I mean never, seen so many Techers wide awake early in the morning than on Ditch Days past. That is if one excepts all the students trying to swallow a scratchy granola bar at 7:30 a.m., while waiting to board the Frosh Camp bus or the seniors standing around about 8 a.m. being cajoled into organized columns by Gloria Brewster as they prepare to march for Commencement.

Right now, the seniors are plotting away, planning activities for us to remember them by. Things to bring a rush of excitement as we pursue the fiendish clues, things pleasant, humorous, tasty if not always tasteful, things that in future years will bring on a smile, a fond memory of the good old days at Tech. Obviously this requires avoiding unpleasant experiences, or injury. With no classes to attend, no homework due and most of the usual chores postponed, it may feel as if all rules are lifted. But physics is the same on Ditch Day as on every other (lower case) day. Gravity can still hurl you down the stairs, momentum does not stop for a moment, and,

as always, floors are slippery when wet (watch for those pisos mojados<sup>1</sup> signs, OK?). Last year's Ditch Day accident should

## EGG DONOR REQUIRED

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**Room for rent:** Large 2 bed/2 bath apt to share w/female, non-smoker, very tidy, no pets. Rent: \$625/mo + 1/2 of utilities (includes own bathroom, parking & private balcony). Deposit: \$625 refundable based on condition at move out. 445 S. Los Robles. Call Julie (626) 395-9422.

remind us to be watchful and keep our own and everyone else's safety in mind.

True, it is the seniors, not you, who set up the stacks and have to make them basically safe. They have been reminded that there are limits to what goes, even on Ditch Day. But the seniors will all be at the beach or tied to a tree, and you will be here following the clues they left behind. Only you can avoid getting hurt. Nothing is as important as your safety, not even overcoming that brute force stack, or showing off for your pals. Nothing. Walk away from

such a situation and you'll be rewarded (see the Dean!).

Mark Twain did not know about Ditch Day, but he had comments on other, more widely celebrated, holidays, like the 4th of July. His comment? "Statistics show that we loose more fools on this day than all of the days of the year put together." He goes on "This proves, by the number left in stock, that one fourth of July each year is inadequate, the country has grown so".

Well, first of all Caltech does not need to reduce its numbers through festive attrition, we are already small, and although we don't wish to grow, we have no need or desire to get smaller, especially not through injury. Second, no one at Caltech is a fool. So there is no expectation that mishaps which can mar holidays like the Fourth would mar this

day, no boat accidents, no vehicular collisions, fireworks-inflicted injuries or other such man-caused disasters.

We are people of the mind, we think we think before we act. We all understand that we only can make the great day, safe, and so make it fun. Enjoy yourself and make it possible for everyone else to enjoy themselves, tomorrow!

A bientot

1. Thanks to Edith Quintanilla for checking my Spanish grammar

2. As quoted in Gary Ramseyer's home site ([www.ilsti.edu/~gramseyer/gallery.html](http://www.ilsti.edu/~gramseyer/gallery.html))

## CRIPPLING DEPRESSION

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All characters are purely fictional. Any resemblance to any persons living or dead is coincidental.  
The views expressed are those of the authors,  
not those of the newspaper staff or Caltech.



# Mints

## Announcements

**Work-Study Opportunity at JPL:** Compton Gamma-Ray Observatory Archival Data Analysis for Studying Temporal and Spectral Properties of Gamma-Ray Sources. This is an announcement of opportunity for 1 or 2 undergraduate students in physics or astronomy to participate in a part-time work-study research program to process and analyze archival data obtained by the Burst and Transient Spectroscopy Experiment (BATSE) onboard the NASA Compton Gamma-Ray Observatory. The major scientific objective is to study the properties of gamma-ray emission from cosmic sources including black holes and active galactic nuclei and neutron-star systems. For this research, it would be useful if the student had some experience with programming as well as working with the Interactive Data Language (IDL) package. Employment would be on a part-time work-study basis during the school year and possibly up to 40 hours per week during the summer. Contact information: Dr. James C. Ling, JPL 169-327. Phone: (818)354-2819. E-mail: [james.c.ling@jpl.nasa.gov](mailto:james.c.ling@jpl.nasa.gov)

**Caltech Library System Presents:** "Structure Searching Quick Review: Beilstein, the CCD and SciFinder Scholar (CAS)". Learn to search chemical structures and reactions, as well as to display and print compound records. Class includes comparisons of Beilstein and Gmelin, the Combined Chemical Dictionary (i.e. Dictionary of Organic Chemistry/, Inorganic and organometallic Chemistry/, Natural Products, etc.) and SciFinder Scholar = CA (Chemical Abstracts) plus, CA Patent Information, CAS React. Tuesday, May 15th, Noon, Sherman Fairchild Library, Room 328. Please register at: <http://library.caltech.edu/learning/form.htm> for further questions, please contact Kathleen McGregor at x6713, or [kathleen@library.caltech.edu](mailto:kathleen@library.caltech.edu).

**Guitar classes at CIT** for the spring quarter will meet on Tuesdays in SAC Room 1, starting on April 3 as follows: Beginning Guitar Class 4:30 PM - 5:30 PM. Intermediate Guitar Class 3:00 PM - 4:00 PM. Advanced Guitar Class 5:30 PM - 6:30 PM. Classical and flamenco repertoires are explored, but techniques transfer to other styles of guitar. The Beginning Class includes a jazz/folk chord system. Classes are free to Caltech students and other members of the Caltech community (space permitting). Undergrads can receive 3 units of credit. The instructor, Darryl Denning, has an international background in performance, teaching and recording (two of his CDs are available in the Bookstore). Mr. Denning can be reached at (323) 465-0881 or by email at: [ddenning@caltech.edu](mailto:ddenning@caltech.edu). The Guitar Home Page is at: [www.music.caltech.edu/guitar.html](http://www.music.caltech.edu/guitar.html)

**Caltech Ballroom Dance Club** offers Argentine Tango for beginners, taught by a professional instructor. A four-week series with lessons on Mon 7, 14, 21, 28 May '01; 7:30pm - 9:00pm in Winnett Lounge. \$7/lesson or \$24 for all four lessons. West Coast Swing for beginners is volunteer [non-professional] - taught. A four-week series with lessons on Wed 9, 16, 23, 30 May '01; 7:30pm - 9:00pm in Winnett Lounge. \$1/session. No partner or experience required. Refreshments are provided, and a half hour practice period will follow each lesson (9:00 - 9:30pm). Additionally, there is a free mini-ballroom dance party following Monday classes (9:30 - 11pm, Winnett Lounge). For further information, visit our web site at <http://www.its.caltech.edu/~ballroom/index.html> or contact Megan Knight at [knight@its.caltech.edu](mailto:knight@its.caltech.edu).

The dance troupe will be offering FREE dance classes Spring quarter. On Thursdays from 9-10:30pm, an introduction to modern dance series will be taught by professional instructor Liz Maxwell. Ms. Maxwell received her BFA and MFA degrees from The Juilliard School and the University of Washington, respectively. She has spent 30 years in modern dance, touring extensively throughout the US and Europe with several distinguished companies. Relocating to LA in 1994, Ms. Maxwell has been on the faculty of CalArts, CSULB, Moorpark, Loyola Marymount, and Scripps teaching dance technique, composition, and specializing in dance history. These classes will begin on April 12 and run through May 31 in the Braun multipurpose room. No prior experience is required, and no special clothing or shoes are needed. Free ballet classes taught by volunteer instructors will begin April 7. Beginning ballet meets from 1-2pm, intermediate ballet meets from 2-3pm, and advanced ballet meets from 3-4pm. For the beginning class, no special shoes are required. For more information, please visit our website at [www.its.caltech.edu/~troupe](http://www.its.caltech.edu/~troupe). To sign up on our mailing list or to reserve a place in the modern class, please send an email to [troupe@caltech.edu](mailto:troupe@caltech.edu).

**Gay/Lesbian/Bisexual Discussion Group:** Looking for a safe and supportive place to discuss issue such as coming out, being out, dealing with family, coping with a homophobic culture, and being GLB at Caltech? Want somewhere just to make new friends? We invite you to the Gay/Lesbian/Bisexual Discussion Group, which meets on the first and third Tuesdays of each month from 8:15 until 10:15pm in the Health Center Lounge. This is a confidential meeting and does not imply anything about a person's sexual orientation - only that s/he is willing to be supportive in this setting. The group usually discusses a particular relevant topic and then moves on to the general discussion. Refreshments are served. If you would like more information, please call ext. 8331

**Community Service Opportunities Abound!** The Caltech Y offers students and staff a variety of ways to participate in community service. Opportunities include working with Habitat for Humanity, Union Station Homeless Shelter, math tutoring (on or off campus), reading tutoring, and working at local hospitals. One-time community service events are planned each term and opportunities for service on a regular basis exist. Undergraduates with federal work-study can receive \$15/hr for their community service work. To be added to the community service interest email list, or for more information about the Community Service Program, please contact Kristin Abbott at [kabbott@caltech.edu](mailto:kabbott@caltech.edu) or call 626/395-3180. Or, stop by the Caltech Y in the Center for Student Services (formerly Keck House) for a complete listing of opportunities.

## Event Highlights

SEMANA LATINA MOVIE  
NIGHT: TESIS (Thesis)  
FRIDAY: MAY 11, 7- 10 PM  
070 MOORE

UNAFFILIATED ROOM PICKS  
WED: MAY 16, 1:30 PM  
FRONT LAWN AT THE CENTER FOR STUDENT  
SERVICES  
  
Munro Memorial Seminar: "THE BATTLE OF  
BEER AND WINE IN EUROPE, 800-600", PRE-  
SENTED BY PROFESSOR RICHARD UNGER  
THURS: MAY 17, 4-5 PM  
110.BAXTER

To submit a Mint, e-mail [mints@tech.caltech.edu](mailto:mints@tech.caltech.edu) or mail your announcement to Caltech 40-58 Attn: Mints. Submissions should be no longer than 150 words. Email is preferred. The editors reserve the right to edit and abridge all material. Deadline is noon Wednesday. Unless specified, all mints will run for two weeks.

## Scholarships

The Financial Aid Office has applications and/or information on the following as well as additional undergraduate scholarships. All qualified students are encouraged to apply. Our office is located at 355 S. Holliston, second floor.

Please visit our web site at <http://www.finaid.caltech.edu/news.html> for complete information on the following scholarships:

- \* Dennis Cabaret Scholarship
- \* The National Scholars Honor Society
- \* Scholarships sponsored by SHARE
- \* Win cash in EDFUND photo contest!
- \* Windstar Environmental Studies Scholarship Program for 2001
- \* Vermont Student Assistance Corporation
- \* P.L.A.T.O.
- \* National Institutes of Health Scholarship Program
- \* American Electroplaters and Surface Finishers Society (AESF)
- \* John Gyles Education Awards
- \* Danville-Alamo Branch of the American Association of University Women (AAUW)

**Summer Work Study:** Information and applications for 2001 Summer Work Study are available in the Financial Aid Office. If you are interested in Summer Work Study, please submit the required application as soon as possible, but no later than June 1, 2001. Your entire financial aid application must be complete by June 1 in order to be considered for Summer Work Study. If awarded, the work study funding will begin with the July 2nd payroll.

## Upcoming Events

**Free concert this Saturday in Beckman Auditorium** with a Laser light show! The Caltech Bands will present the 22nd Annual Bandorama, featuring the Jazz and Concert Bands of Caltech on Saturday, May 12, starting at 8 PM, in Beckman Auditorium on the Caltech campus. This is a free concert, and will feature the bands playing the music of Handel along with a laser light show, a Sousa March, and a new piece for candy warappers and concert band. There will also be some fine jazz including music from the Count Basie Band and the Maria Schneider Orchestra. There will be a reception following the concert. No tickets are required. For further information, please call the Caltech Ticket Office at 626 395-4652.

**KELROF** is a 24-hour relay run that happens every year around the end of third term, down at the Caltech track. Participants form teams of 2-10 people and take turns running (or walking) around the track. The key is to have one person from your team going around the track at all times. KELROF is happening Saturday, May 19th, to Sunday, May 20th, from 8AM to 8AM. The event is open to everyone (undergrads, grads, faculty, staff,...). There will be free food throughout the event, and T-shirts for the participants. This is not a competition—you don't have to be a runner to participate!!! Form a team and come down to the track (the more people on your team, the more rest you get...), or come down and join a team when you get there. Or just come down and cheer on the other runners/walkers. If you have any questions, please email Zach Medin ([zachary@its.caltech.edu](mailto:zachary@its.caltech.edu)). Sponsored by ASCIT, the Caltech Y, Res Life, and the Dean's office

Caltech students will present five different **chamber music concerts** between May 11th and 20th:

(1) Chamber Music at Noon: Friday, May 11 - Noon - Dabney Lounge. FREE LUNCH FOR 100 PEOPLE. music for piano duet, two pianos four-hands, and woodwind ensembles.

(2) Caltech Chamber Music: Sunday, May 13 - 3:30 - Dabney Lounge. Featuring a screening of "What the Daisy Said", a short silent film starring Mary Pickford accompanied by a Caltech string quartet performing Maria Newman's new score for the film. Ms. Newman will discuss the film and her music. Concert also includes Mozart's Sonata for Two Pianos, Slavonic Dances for piano duet by Dvorak, Shostakovich's String Quartet No. 1 and Maria Newman's Terpsichore.

(3) Chamber Music at Noon: Friday, May 18 - 12:00 - Dabney Lounge. Piano trio by Granados, music for three flutes, and Beethoven's String Quartet Op. 59, No. 1 FREE LUNCH FOR 100 PEOPLE.

(4) Caltech Chamber Music: Friday, May 18 - 8 PM - Dabney Lounge sonatas by Bach, Telemann and Schickhardt; trios by Beethoven and Martinu; a string quartet by Schubert; and music for brass quintet by Malcolm Arnold.

(5) Caltech Chamber Music: Sunday, May 20 - 3:30 PM - Dabney Lounge. Music by Haydn, Beethoven, Dvorak, and Bruch, plus a little Scottish music and a little ragtime.

THE CALIFORNIA TECH  
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