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# The California Tech

BUT SOME  
ARE MORE  
EQUAL THAN  
OTHERS

Volume XCVI, Number 15

Pasadena, California

Friday, February 3, 1995

## Secretary of Interior Visits Caltech, Promotes USGS

by Royden Jones

On Wednesday, February 1, the Secretary of the Interior, Bruce Babbitt, went on a tour of the Seismological laboratory and then went on to hold a press conference in South Mudd. There was a healthy group of reporters there, including several camera crews (such as KCAL, KABC, and KTCA). The bulk of the conference dealt with the promising partnership between Caltech and the United States Geological Survey, and the danger that the USGS is currently in, due to budget cuts and the "Contract With America."

The Secretary felt that the partnership between Caltech and the USGS has led to many improvements and innovations regarding earthquakes. (Although the bulk of his talk was on the Earthquake studies, the USGS has several other responsibilities as well, such as their superior maps and their funding of much of the current research in Geology.) In the last several years, there has been a dramatic increase in the speed and accuracy of Emergency Response. Currently, even while the

quake is still occurring, the sensors can detect where the damage would be most severe, when and what to send where to have the quickest and best response to the emergency, something that was sorely lacking in the Kobe quake, as it in some cases took days before groups were told where to go. Besides the improved deployment ability (and a related superior communications set up), there is an increased education on earthquake awareness: which areas are more or less likely for quakes, how to better build for the event of quakes, what to do in the case of a quake, and so forth. The engineering aspect was touched on briefly, in that after each earthquake, more data is accumulated and the buildings are even more ready in the event of the next quake. (As was mentioned in the Kobe article last week, much of the damage was complicated by many buildings being hundreds of years old and having never been thru a previous quake.)

Babbitt then went on to discuss a more national issue, the upcoming budget. The United States Geological Survey is one of several science

related items that are having some "problems" in Congress. One of the issues that has come up is the opinion that the government is taking too much of a regulatory role in science. As Babbitt offered, however, "even in this period of skepticism in the government, it should be seen that keeping the government involved with a program of this importance is in all of our best interests." When asked how important he felt the work of the USGS is, he replied that "for Southern California, the USGS is very important. It is the very finest earthquake research there is." However, nowadays everywhere in the Government there is a fervor to "downsize." In his own Department of the Interior, which currently has eighty thousand workers, he plans on cutting the jobs of eight thousand of them in the next year. He does not like the idea of cutting programs, however, as he would rather downsize heavy programs than cut the smaller ones; in his own words, he would rather "cut the fat than the bone." He is in the group opposed

SEE BABBITT VISITS TECH, PAGE 7

## Perspectives from Abroad

by Hope Chang

Learning is my love, people are my passion and beauty is my inspiration. I am a would-be E&AS junior at Caltech, except I am away for this year. Studying abroad for one academic year sounded very appealing when I decided to apply for Rotary's Ambassadorial Program my freshman year. What an opportunity it would be to add a new dimension to my learning, meet many different people, and admire natural and artistic beauty abroad. (Oh, and of course—to enjoy a very legitimate year-long break from Caltech.)

I had for a long time been curious and interested in learning more about the European side of the globe. Erasmus University in Rotterdam (Netherlands) was a very good choice for me—initially because some courses in English were offered in subjects which interested me. When I received the notice about this time last year that I would be sent to Rotterdam, I was happy with anticipation, but the fact that I'd actually be spending about a year away from friends at home in America didn't hit me until soon after I arrived.

The realization that I would spend one year in a country where English is not the main language sank in only after I arrived. My first reaction was panic, because language was not something I gave too much thought to before coming. I had figured that

since my courses would be in English, I should be fine. Even though most Dutch people I speak with are also able to speak English (and German and French), I had to feel a bit humble for being less flexible with my language proficiency. My Dutch has improved since I arrived, but I am still very impressed with the multi-linguality of many Europeans I've met.

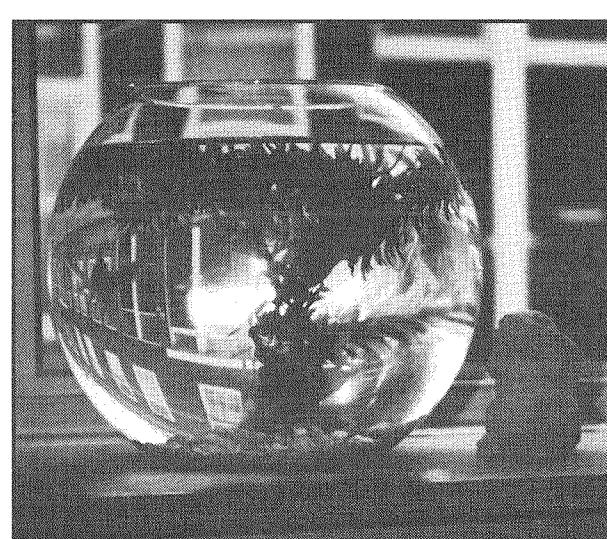
During my first couple of months here, I was nostalgic for Caltech, for my home in Hawaii, and for my family and friends I had left in order to be here. But now—the old flat I share

My experience of learning to live in a place where my initial unfamiliarity with the Dutch language and culture felt like a handicap and has taught me empathy for persons with similar difficulties such as immigrants and the illiterate among many others. Because I begin to understand the problem(s), I will be very interested in helping those who must deal with such situations when I return to America.

Inter-cultural encounters are always interesting for me, especially when cultural differences are noticed.

Because of these encounters, I have become more aware of my own cultural biases. Things about life I had previously understood to be the norm are now often characterized by others as "typically American"...colorful clothing, the expressions "cool" and "wow" and "awesome" and "OK" and "nice to meet you" as well as more subtle mannerisms. Amusing, I think.

I know I will leave Rotterdam in June with many fond memories. But for now, I am not thinking about June. In the meanwhile, I will be attending my regular classes, spending time with friends, meeting interesting people from different parts of the world, and hopefully traveling more when I have the chance. I would rather savor the moment. I welcome your email; send to [chang@edu.eur.nl](mailto:chang@edu.eur.nl).



Hope Chang may have had some language difficulties in the Netherlands, but there were no language barriers for some

with my house mate from France, the streets full of little shops, the market at the centrum of the city, the beautiful park with the forest/windmills/lake near my flat, the swimming facility also near my flat, my rusty old bicycle, the classes I take, even the frequently wet weather, and all the interesting people and new friends I've met are parts of my life here I have grown to love.

The Geology and Planetary Science Dept. is starting a ph11-like class this year. This new opportunity in undergraduate research is open to all Caltech freshmen. The course will, like Ph11, consist of weekly tutorial meetings in the spring and fall quarters of 1995, and summer support (at the SURF rate) will be given for the summer of 1995. There will be at least three positions in this class for winners of this hurdle competition. The following is the hurdle:

A closed candy jar is filled with a mixture of plain M&Ms and peanut M&Ms. Discuss quantitatively various strategies for shaking the jar to separate the two M&M species and the degree of separation obtained. Separate out the effects of mass and size/shape.

**Rules:** You may use any reference you like, but you cannot collaborate. Use of computers, etc. is OK. The hurdles are due Monday, February 27, by 5 PM, in 201 Sloan Annex (Dr. Tombrello's office).

On Monday, February 6, 1995, ASCIT members and undergraduates will vote to fill 11 offices and on a bylaw amendment. Each candidate has been advised to submit a statement for this week's edition of the *Tech*. The ballot will be **two-sided**, so be sure to fill out both sides. And now for list of confirmed candidates as of Wednesday, February 1.

**ASCIT Secretary**  
Bradey Honsinger  
David Relyea

**Athletic Manager**  
Stacy Kerkela  
Laura Verhoff

**ASCIT Treasurer**  
Peter Manca  
Kanna Shimizu

**BOC Secretary**  
Ricky Carson  
Chris Walker

**IHC Chairman**  
David Cuthbert  
David Derkits  
Thomas Maccarone

**Academics & Research Committee Secretary**  
Kohl Gill  
Christopher Hunter

**Director for Academic Affairs**  
Venky Ganeshan  
Ken Walsh  
Thomas Maccarone

**Tech Editor(s):**  
Shameel Arafin  
Team(5):  
Shay Chinn  
Stephen Van Hooser  
Wei-Hwa Huang  
Terry Moran  
Mason Porter

**Director for Social Activities**  
Phillip Rodriguez  
Greg Steiert  
**Upperclass Director-at-Large**  
Phillip Rodriguez  
Laura Munoz

Momo Jeng(3):  
Mo<sup>6</sup>  
Team(3):  
Neal Dalal  
Alan McConchie  
Aloysius Wild

**Freshman Director-at-Large**  
Meg Crocker  
Krishna Gidwani  
Bradley Marker  
Melissa Saenz

Other candidates who confirmed after this article was written may have statements in this edition. If they have confirmed on time, then their names shall appear on the ballot. If there are any questions or concerns regarding the upcoming election, please contact the ASCIT Election Chairman, Cedric Hobbs at [cedric@uges.msc260](mailto:cedric@uges.msc260), or at 568-0001.

## In This Issue

### The Usual Stuff

EDITORS' CORNER	2
YNEWS	2
COMICS	3
ASCIT NEWS	4
CROSSWORD	6
SPORTS	6
NOTICES & EVENTS	8

Features	Hawking
ASCIT Election Statements	2
INSERT	Masseuses

# Opinion

## Hawking: A Great Experience, but a Bit Light on Physics

by Zackary Berger

Two weeks ago, world-renowned Stephen Hawking gave two talks to Caltech audiences. The physicist drops by Pasadena very few months, and holds the title "distinguished scholar" in Tech's egghead hierarchy. They were poles apart: Thursday's involved quantum cosmology and was under the physicists' auspices, while Friday's was given to undergraduates (with the sponsorship of the Dean's Office) in Ramo Auditorium.

Two weeks ago, that is. Why wait two weeks to give text-thirsty readers of the Tech a healing draught of Hawking? One might ascribe this particular neglect to the Tech's distressingly, chronically late coverage. (My friend commented that if Rudy Marcus and Tom Everhart were to duel with pistols at noon on the Olive Walk, they'd be pushed off the front page by ASCIT elections and a news release from Public Relations.) Or maybe we at the Tech just don't like Stephen Hawking, and meant to insult by omission (just as we did in the case of Martin Luther King,

as Agyeman Boateng cleverly and rigorously demonstrated in his letter of last week).

Neither of those quite explains the absence of coverage, though. There was no real reason to devote much space to the Thursday talk ("Hawking Holds Forth On Quantum Cosmology" is possibly the least exciting headline anyone has thought of in a long time)—but Friday's event might have been something special. What might a noted physicist and popularizer of physics have to say to Techers, we who are supposed to be not only nerds, but the defenders of nerdiness in an anti-nerd age?

Unfortunately, not much. Hawking's talk was entitled "Life in the Universe," and comprised for the most part rehashed ruminations on the meaning of life, the evolution of information as a counterpart to and foundation of life's evolution, and our future interactions with alien species. Nothing, that is to say, that most if not all of the audience hadn't heard before in other contexts from not so distinguished scholars. Many were a little disappointed.

Which is why I hesitated to

Come celebrate Black History Month, cosponsored by the Caltech Y! This week's events include:

- **Today, Feb. 3** Agapeo Psalms of Victory Choir, Winnett Lounge, 12 noon.
- **Tuesday, Feb. 7** African Dance Group, Winnett Quad, 12 noon, and the film, *At the River I Stand*, presented in Beckman Institute Auditorium, 7:30 pm
- **Thursday, Feb. 9** Dr. Karen Maples, the first African-American woman to graduate from Caltech, will be speaking in Winnett Lounge at noon.
- **Friday, Feb. 10** Micky Champion, a Rhythm and Blues performer, Winnett Quad, noon.

In addition: Tomorrow, **Saturday the 4th**, there will be a hiking trip to Chantry Flats. It should be a beautiful day of hiking, but space is limited, so sign up at the Y!

For long term planning, mark these dates on your calendar:

- **Sunday, Feb. 26**, the Y will hold the term's Boffo Bonecrusher Broomball Tournament. We'll be playing from 10:30 to 4:30 am. Note the unusual day and times. (We get an extra hour of ice time!)
- **Sunday, March 12**, the Y has a rock-climbing trip. Details are still in the works, so call the Y for info.
- What are you doing for Spring Break? Well, why not go mountain biking for a week in Utah? This year's Y Spring Break Special will be from **March 27 to April 1**, biking around various regions of Utah. Contact Chris at the Y for more details.

write. I thought the Dean's Office might take it wrong, and Hawking himself might take offense. So here's a disclaimer: we came to see Stephen Hawking, Nobel-quality physicist and inspiring guy overall. We thank the Dean's Office for

getting him to speak to lowly undergraduates. Unfortunately, Professor Hawking, you pitched your talk a bit too low. Next time, ease up a bit on the dumbing down. Remember "A Brief History of Time," where you lured a sizable

readership with an honest and detailed representation of modern physics? We've been treated to some physics in our time here, and we'd love to hear some of yours.

## The California Tech

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## Editors' Corner

### From "Wei"

The elections are coming up, as we warned, so I urge all of you make the right decision on Monday and vote for the Team of 3 for Tech Editor. This way I can gracefully retire and see if they actually live up to their promise. I wouldn't mind seeing lots of new Dilbert® every week, if they can do it (heh heh heh). They'll see how tough this job is...no, wait, I didn't say that! No, this is a really easy job! Really! You can have it all! Take it! PLEASE!

### Deadlines for Submission to The Tech

Letters to the Editor — 5 P.M. Monday  
Events and Notices — 5 P.M. Tuesday  
Unsolicited Articles — 5 P.M. Tuesday  
Regular/Semi-Regular Columns — 5 P.M. Wednesday  
Articles, News Submissions — 5 P.M. Wednesday  
Art/Photo Submissions — 5 P.M. Thursday

## Work for The Tech!

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12:15, Fridays, Coffeehouse

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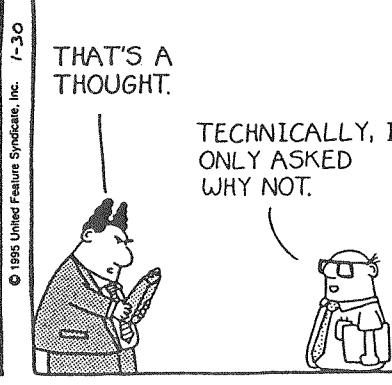
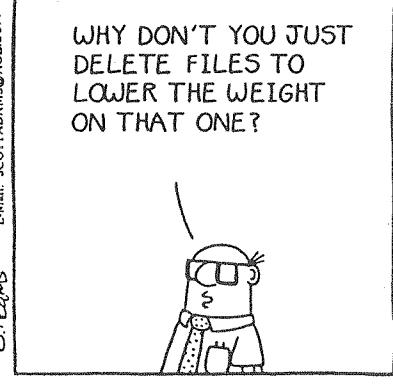
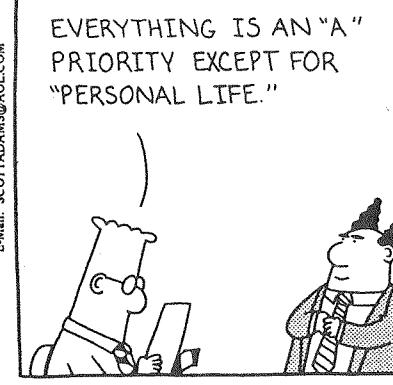
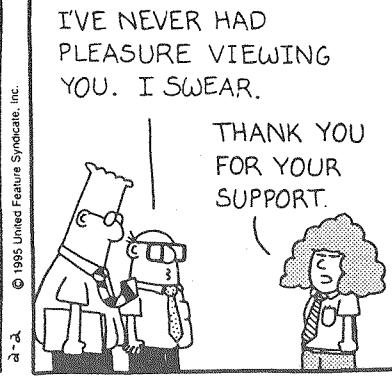
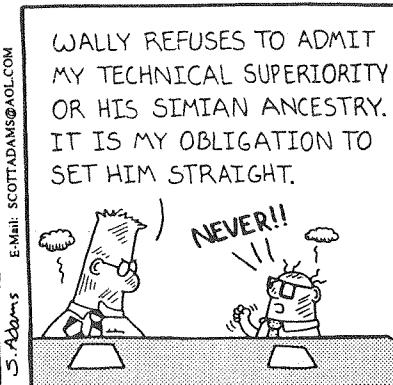
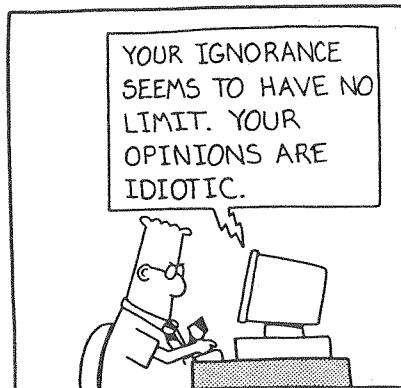
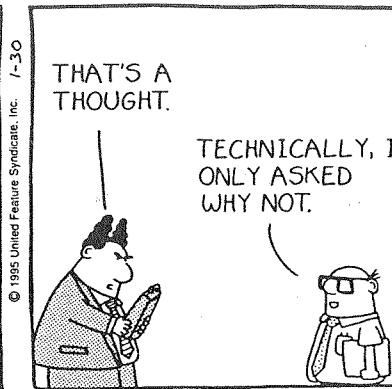
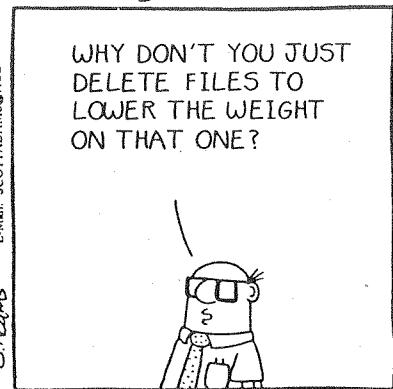
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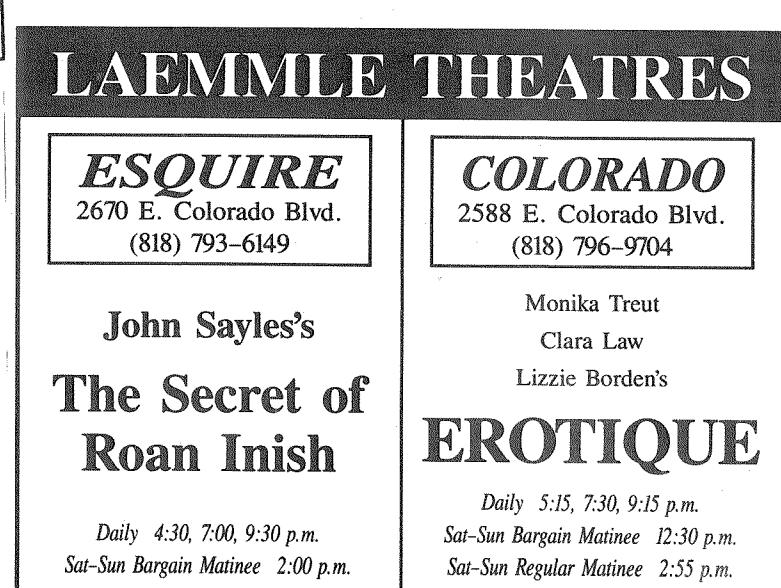
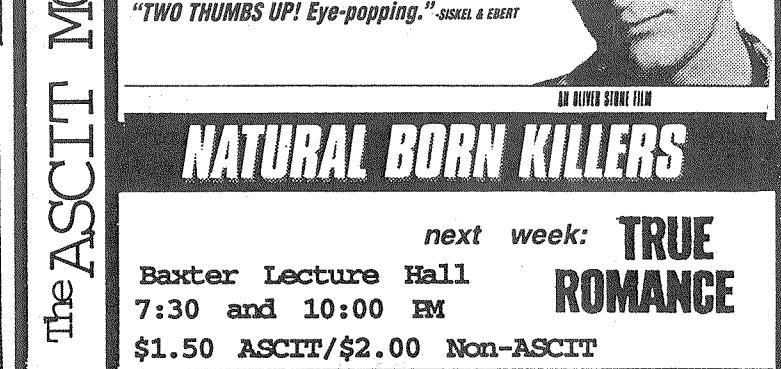
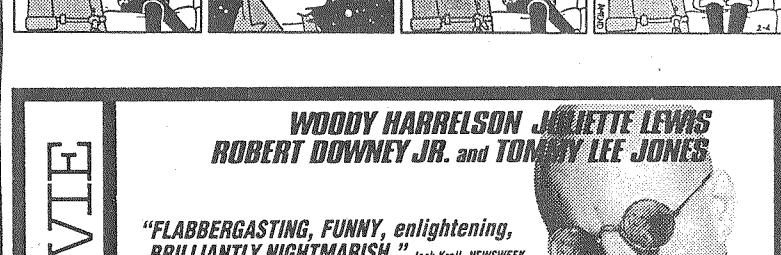
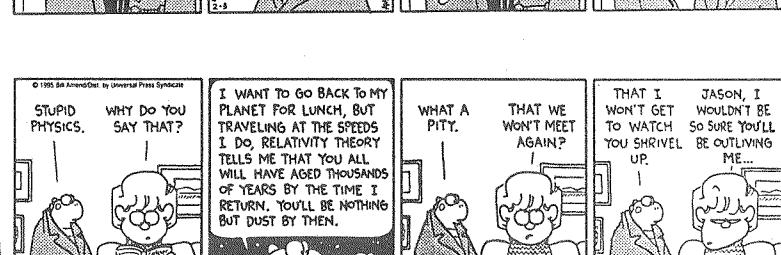
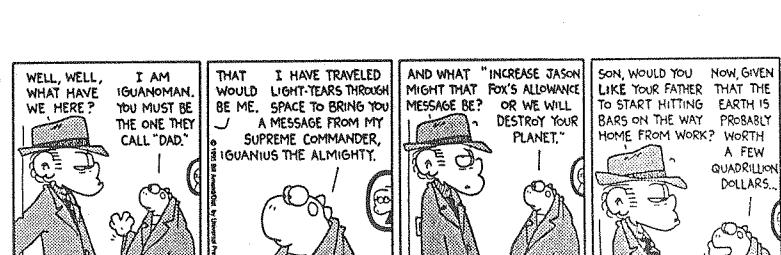
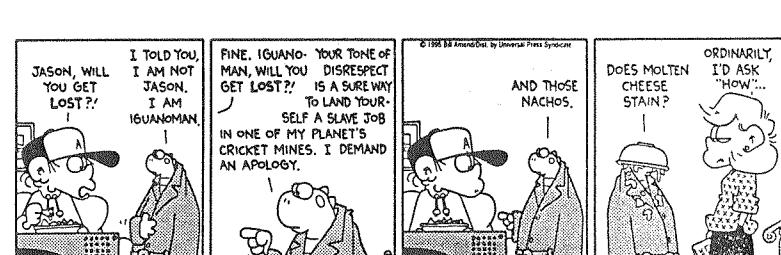
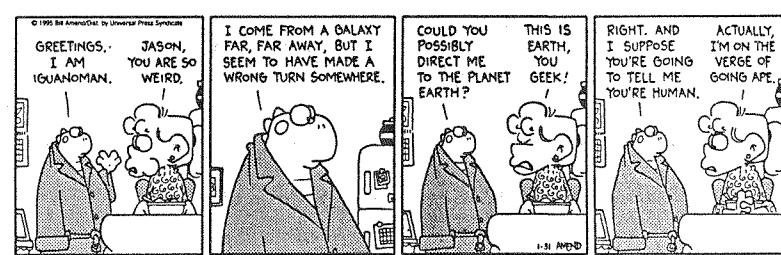
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## FoxTrot

by Bill Amend



# Masseuses Soothe Tired Beavers

by Krishna Gidwani and  
Saurabh Saha

Last Friday local masseuses from the Wild Oats organic grocery store came to Braun Athletic Center to demonstrate the benefits of therapeutic massage. We were fortunate (???) enough to have experienced this unique form of relaxation. Stephen S. Yelich, a professional masseuse, performed sport massages on some of Caltech's athletes. Yelich has worked with many top athletes in the United States, including Kevin Young, Carl Lewis, and the U.S. Cycling Team. According to Yelich, a sport massage is "a powerful therapeutic modality which will maintain optimal performance [of the athlete]." For the past eight years, Yelich has perfected his massage techniques among Pasadena residents. He is proponent of the Shiatsu and Swedish massages. Shiatsu literally means finger (shi) pressure (atsu) and, in general, Shiatsu is stimulation and relaxation of the body with the

hands and feet. Swedish massages mainly consist of movements classified as passive and active. Yelich and the other masseuses spoke of the many holistic effects of massage on the body. One of Yelich's colleagues asserted that, "by dilating the blood vessels and increasing the supply of blood and nutrition to tissues and muscles, massage acts as a natural and mechanical cleanser."

The results of massage on a regular basis lead to improved general circulation, elimination of fatigue, and dispersion of the edema following injury to ligaments and tendons.

When asked to describe their massage experience, most Caltech students said that they felt "rejuvenated and less tense." Personally, we did not experience this artificially induced euphoria. On the contrary, it seemed to us that the massage caused soreness and pain. However, we strongly encourage you to experiment with massage if you can shell out the average rate of \$55 - \$60 per hour..

David R. Derkits

## ASCIT NEWS

3 February 1995

### ✓ MISCELLANEOUS ANNOUNCEMENTS

- Meetings of the Board of Directors are held every Wednesday at 11:00 AM in the ASCIT Office, 64 SAC. Meetings are open to the Caltech community.
- The *Undergraduate Research Opportunities Handbook (UROH)* has been released. Copies are available in the library of each House.
- Kim West is planning to organize a DAPAC Review Committee to look into these policies and recommend improvements. Watch for additional information from the DRL's office.
- Today, and every Friday from 2:00 to 4:00 PM, undergraduates have the opportunity to talk/chat with various Student Affairs administrators in the Coffeehouse. Refreshments will be served.
- The committee charged with reviewing the advisor system is releasing a 'Survey on the Advising System' to the student body. ASCIT is helping with collection of the surveys.
- ASCIT WWW Pages:  
<http://www.cco.caltech.edu/~ascit/>
- Copies of ASCIT Board Minutes are available by mail or e-mail free of charge on request to students, faculty, and administrators. Requests should be sent to Secretary, ASCIT 64-58. The Minutes are available on [caltech.ascit.announce](mailto:caltech.ascit.announce) and in House lounges.

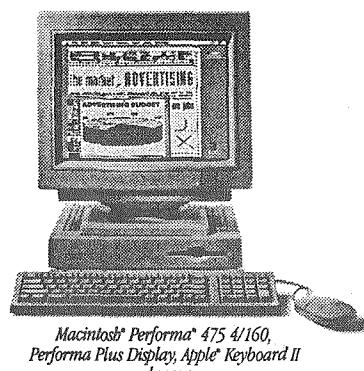
### ✓ CURRICULUM

- Bylaw Amendment #1, which passed in the Presidential Election, creates the Academics and Research Committee (ARC) to replace the old Educational Policies Committee (EPC). Members to the ARC will be selected in House elections (in the same manner as BOC Reps). If you are interested in improving academics and research at Caltech, you should consider seeking a position on the ARC. Watch for additional information in the Houses.

### ✓ ELECTIONS

- The ASCIT Officers Election is on Monday 6 February from 10:00AM until 10:00PM. Ballot boxes are present in all seven Houses. Please see the campaign statements elsewhere in the *Tech*.

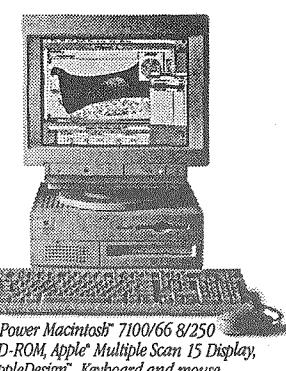
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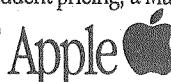


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## SPECIAL INSERT:

## ELECTION STATEMENTS

## Athletic Manager

## Stacy Kerkela

I wish we had InterHouse Sports here at Tech. That would be cool. There are myths, rumors, that it existed once before. But as a hardened cynic I refuse to believe it until I see it. In truth we have sagging participation, more defaulted games than ever, and generally less fun and less spirit. Fortunately, things are turning around.

This last year has seen the nucleus of several substantial changes. First, we have a new eligibility rules that keep InterHouse for students and early Graduates, but keep Grad Students and other community members from taking student spots on House teams.

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InterFleming-Page House Sports, sorry, Disco, has spawned Crisco as an InterHouse event that all Houses can compete in. Also the changes in Disco rules that go into effect next year, will require more time and more communication on the part of the Ath Teams and the Ath Committee, and I believe that I am the most qualified candidate to work towards and bring about these goals in a comprehensive and equitable manner. Please give me your vote on Monday.

## Laura Verhoff

Experience is vital to the efficiency and effectiveness of any position. Only by actually performing a

job can one understand the time, commitment, knowledge and ability required. I have that experience as ath man.

The question in your mind is, "Why should I vote for Laura?" I have served well as your ath man this past year. I am the first ath man (in anyone's memory) to reconvene the Executive Athletic Committee to make athletic decisions based on the opinions of EVERY House. This committee, under my guidance, has played an active role in changing the things you wanted to see changed. We have reviewed and updated Interhouse rules; revised Discobolus for next year to reflect a changing, diverse student population and created the new Crisco competition; currently in its infancy. I have also personally reviewed the ASCIT Athletic Bylaws and advised the BOD on which to change and update.

But my experience far exceeds just ASCIT Ath Man. Being a varsity letter winner in sports, as well as being co-captain of the tennis team,

has given me direct contact with athletes from sports of all seasons (just ask any of them if they've met me in the training room). I was also chosen as a mentor by my peers for both the volleyball and tennis teams. I am a charter member of ACME - the Athletic Council for Mentoring and Education (formerly known as the Awareness Committee). I will be representing our group this weekend at a drug and alcohol education conference. I and Angie Bealko will be presenting our committee's successes and experiences of the past year to schools throughout the nation attempting to create programs such as our own. I am also working on establishing a sports page in the paper, in conjunction with ACME.

I feel that I have been a competent Ath Man. During my term, I have dealt with the IHC, various House presidents, the BOD, and the athletic department. I have been one of the first ath men to take an active role in athletics, rather than just

handing out awards. I am also the first ath man to regularly keep in touch with all the Houses' ath men through email, updating them and getting their ideas. I took time to prepare a packet for each Ath Man containing Interhouse and Disco rules, athletic groups on campus, and helpful information about general questions ath men would have. I am currently looking into trying to bring back Caltech blankets for lettermen.

I can not stress how important experience is to this job. I admit that it took a while to clean up Pinky's mess, but it took a lot of time and effort to learn how to do many of the things required for this office. Most importantly, though, is that I am impartial to all the Houses - I am not affiliated with any ath team and have never been on one. It was one of my major goals to attempt to get input from ALL the Houses and I have accomplished this.

Please take time to vote on Monday. You elected me once and I haven't let you down yet.

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# ELECTION

*more*

*These four pages (and the next) consist of all statements submitted by the candidates in the upcoming election.*  
*The California Tech takes no responsibility for the veracity of the facts mentioned by each candidate.*

## ASCIT Secretary

### Bradey Honsinger

If you take a brief look at any of the recent election results that are posted in a lounge near you then you'll notice that between three and four hundred students vote in any given election. On the other hand, there are close to nine hundred undergrads who pay yearly dues, and are registered ASCIT members.

Why the enormous disparity? Perhaps you could blame it on apathy, or those nonvoting unamericans out there. More realistically you could point the finger at the fact that elections have little publicity, off campus students are rarely informed, off campus boxes are virtually nonexistent, the voting period is ridiculously short, and the ballot boxes draw about as much attention as a homework assignment on ditch day.

This is just one example of the many ways that ASCIT has failed to inform its members of its activities. Why do students rarely hear what goes on in student-faculty committees? Why are proposed Administrative policies and changes discussed only in SAC 64, and not the lounges of houses and the net pages of students? ASCIT does do a good job; I believe that the current opinion that ASCIT is failing its members is false. However, ASCIT does not often pass on reports of its successes (or failures) to the student body as a whole. Because of this, many students rightly feel that they are being excluded from an important part of their government; providing this information would help all undergraduates become aware of the issues that affect them, and take action when necessary. As ASCIT Secretary I would see it as my job to provide this information, and to actively encourage all students to participate in student government.

### David R. Relyea

Hi, my name's Dave Relyea, and I'm running for ASCIT secretary because I believe I'd make an effective addition to the ASCIT government. I'm organized, open-minded, and will be able to simultaneously take minutes and participate in ASCIT meetings. I like writing, so weekly minutes would be prompt and unrevised to suit personal opinions. However, one of the main reasons I'm running for ASCIT secretary is that I care about the undergraduate student body. I already devote several hours a week to the close reading of applications for freshman admissions committee. I admire the individuality of every member of the

student body, and I do not like to restrict myself to seeing people simply as members of their respective houses. I appreciate student input and I enjoy listening to people's opinions about the state of affairs at Caltech and what can be done to improve upon them. However, I don't play favorites and will not get grossly political when dealing with campus affairs.

The ASCIT secretary is supposed to keep the lines of communication open between ASCIT and the student body. Lately, I feel these lines have been (to say the least) somewhat strained. It shocked me just a bit when there were still three major ASCIT positions left blank four hours before nominations closed. As ASCIT secretary, I'd work toward reopening communication between the ASCIT government and the student body. Also, although prior ASCIT/IHC relations have been somewhat strained, I know I'll be able to converse with the IHC in a more friendly manner because I won't view student government as a political power struggle. The ASCIT government and the IHC should work together, as fighting between the two groups gets the student body nowhere.

As Lloyd House librarian, I've learned to deal with lots of stuff that other people have decided wasn't their responsibility anymore. I value responsibility and the desire to do a good job, and these qualities are necessary for any ASCIT post. The ability to organize and motivate people is also desirable in a candidate, and as head tutor at the Caltech Y I've both recruited a large number of students and organized the tutoring sessions to effectively deal with the volume of students that show up to be tutored. During second term we have been able to help every student that has come to tutoring, and the high school students and parents have shown their appreciation. I like dealing with and helping people, two other qualities that I believe would make me an effective ASCIT secretary.

Remember that the ASCIT government affects the lives of every member of ASCIT regardless of the influence people feel from it or the job that students think it does. Any candidate for ASCIT office should be a representative of and care about the entire student body. I'd like to ask people to consider this when they vote in the next ASCIT election, and I hope people understand the value of their votes. When amendments don't pass by two votes or when people flake out of responsibilities, it affects the campus as a whole. So I ask you to consider me, Dave Relyea, for ASCIT secretary. If you have any questions, I live in Lloyd 133, my email account is *relyea@cco*, and my extension is x1320. Thanks.

## Treasurer

### Peter Manca

My name is Peter Manca and I'm running for the office of ASCIT Treasurer. I have been highly involved in house government since I came here so many years ago. As with all servants of the public though, I wish to serve a greater populace. I want to be able to serve the ASCIT members in the best possible way that I can. Being treasurer of the house social team, I have learned the following skills: Handling money (including counting it), using a pen or pencil, and perhaps most importantly, using a calculator to add all the sums together. In addition to these valuable skills, I have experienced many ASCIT meetings where the office of Treasurer was central to the topic at hand. Thus, I have seen some of the more important responsibilities that the Treasurer must fulfill. I am a Junior taking relatively few units so I believe that I will have plenty of time and energy to throw myself into the work of being the ASCIT Treasurer. So remember Peter Manca when you go to the voting boxes on Monday. Thank you.

### Kanna Shimizu

The ASCIT treasurer is a high-profile job that seems glitzy (hey, everybody knows Ewald) but I believe it's a nitty-gritty job which requires dedication and commitment. I want you to know that I have the drive and the enthusiasm to take on this position. It is a job that demands responsibility and I will really like to put in the time to be an effective and responsible treasurer.

As for experience in student government and administrative positions, I have served as the student representative for two student-faculty committees: the committee for international students and scholars, and the committee for patents and industry relations. I have a personal attachment to the former because I am an international student myself. The position requires me to work closely with the international student office and so I claim having experience working with other administrative offices. After talking with Ewald, the current ASCIT treasurer, it seems like this experience would come in handy. The treasurer must deal with

certain offices for tax matters, negotiate with the Big T and Little T editors, and in general, work with a variety of people. I believe I have the experience to serve effectively as the ASCIT treasurer.

In terms of personality traits, I feel the treasurer should be of the meticulous type. I am told that the ASCIT treasurer signs around 150 checks a year and deals with a budget that is 45 thousand dollars in size. A "loop-holish" person will not serve well as a treasurer. The person must keep track of what's going on, be up-to-date on matters, and be meticulous in terms of numbers. Hey, I'm a future electrical engineer; I NEED to be meticulous. (It also helps that I'm taking 14 this year...) My parents have trusted me with my own bank account since I was fifteen because I lived away from home. I KNOW how to keep a budget. The treasurer is entrusted to keep a good balance between the checking and savings accounts, and make sure things don't get overdrawn. I have done this since my freshman year in high school. I have the "right" personality to become the ASCIT treasurer.

So, please vote for me. Thank you for your time.

## Director for Academic Affairs

### Venky Ganesan

Election statements are supposed to be catchy.  
 Election statements are supposed to be short.  
 Election statements are supposed to be 8 byte sound bits  
 Election statements are supposed to say what people want to hear.  
 Election statements are supposed to be narcissistic.  
 Election statements are supposed to be like Super-Bowl ads  
 Election statements are supposed to be as old as the Rolling stones and Election statements are *not* supposed to be written at 3 am.

### Ken Walsh

The position of the Director for Academic Affairs, contrary to popular thought, is perhaps the most important position in ASCIT. We are here, after all is said and done, primarily for academics (at least that's what my parents keep telling me). Even if you are a graduating senior, what happens to the academics here after you leave will affect the reputation associated with your degree. It is the DAA's responsibility both to represent the student body to the administration and faculty when it comes to academic and research matters and to be an information source for the student body regarding any new issues or potential changes in these areas. To facilitate this the DAA chairs the Academics and Research Committee. This committee will become increasingly important as students confront new core policies and frosh on grades.

The most used source of information is the CLUE. As DAA I would of course continue to maintain the online version of the CLUE as well as publish a hard copy at the beginning of the year. I plan to develop a more automated system for requesting and processing student reviews of classes so that more information will be available faster. I would strive to provide the student with as much information as possible. All available reviews, grading, and enrollment distributions would be published. Flora Ho, the outgoing DAA, has done much to improve the CLUE and streamline its op-

eration. I would very much like to continue this trend by improving it even further.

In order to best represent the student body and propose valid changes to the current academic and research policies the DAA must also collect information from the student body. I would like to take a more active role in collecting surveys and ideas from the student body by making it easier for students to give input and heightening their awareness of the issues at hand. The more information the Academics and Research Committee can gain from the student body the louder the student body's voice to the faculty and administration will be. I hope to use the campus Internet services as well as the new house representative structure of the ARC to improve the information resources of the committee.

When it comes to representing the student body to the administration and faculty the DAA must be able to convey the views of the student body in a convincing and diplomatic fashion. I have a fair bit of experience at public speaking, presentation, and debate. I have established good rapport with a number of faculty members. I am a Junior and have experienced all of the core courses here at Tech and am familiar with many of the students' and faculty's gripes about them. I have the leadership abilities to make the Academics and Research Committee a powerful student resource. Finally, I have the inspiration, time, and motivation not just to do a good job like it has been done before, but also to expand the role and utility of the Director of Academic Affairs. Please vote for me, Ken Walsh.

# STATEMENTS

## Interhouse Committee (IHC) Chairman

### David Cuthbert

As mentioned in the election statements two weeks ago, this is an exciting time to be involved in student government. The past year has seen some great proposals rise, such as the recommendations for improvements in student government, changes in the curriculum, decisions on how to integrate Avery House — each of them designed to improve life here in a different way.

It is now time to implement these changes. This is why I am running for the position of IHC Chairman.

I tend to look at the tactical side of various issues; rather than defining a problem, I look for ways to implement a solution, and then try to implement it. That's why I'm currently a teaching assistant and a UCC in Ruddock: I can be right there, examining my efforts directly. I try to anticipate various problems, whether it is someone in my alley having an interpersonal conflict or someone in lab accidentally blowing up a piece of equipment. Of course, it is impossible to predict everything that can go wrong — but when something does go wrong, I am ready to correct it.

Now I hope to bring my efforts to the campus as a whole. I am not unfamiliar with the duties of the IHC chair, having followed the actions of the IHC through informal discussions with our house presidents and Stanley Grant, the current chair. The biggest duty falls at the beginning of the year throughout rotation and picks — again, I am familiar with the procedures since I assisted the IHC during rotation and attended picks as a technical assistant. Should weird problems arise during the year and surprise me, I feel that I will be a capable mediator among the house presidents to ensure a fair solution.

Thank you for taking the time to read this. If you have any questions, or are just wondering who the person behind the statement really is, feel free to stop by my room (104 Ru.). I hope that you will consider me as your next IHC Chairman.

### David Derkits

Near the beginning of my two and a half years at Caltech, I saw relations between the students and administration hit bottom over such issues as cancellation of the Interhouse party and diminished respect for the Honor System. Since then, through the efforts of student leaders and a refocused administration, the situation has seen gradual improvement. This has led to advances in security, campus lighting, and - most recently - the decision to keep the MOSH in Steele House. During my service as student government secretary, I've built working relationships with Student Affairs, the Deans, the MOSH, the Housing Office, and others: from discuss-

ing Steele House with Gary Lorden to meeting with Dean Kiewiet about concerns over his proposal to put freshmen on grades third term. Over the next year, we, the undergraduates, face a host of important issues, including the construction of Avery House and the revision of the core curriculum, as well as other issues such as the installation of a cable TV system. A significant number of these will directly affect the House System.

The office of IHC Chairman embodies a combination of student body government and House government. He must work to preserve and improve the House system, and - as a Director of ASCIT - he must act in the interests of the student body on a variety of issues. Over the past two years, I have been involved in both areas. In my House, I served on Social Team for one year, then as Damage Rep. for a second year, and I have proxied on the IHC for my House president. In student body government, I have served as Secretary, a Director of ASCIT. In this capacity I've held membership, with Jon and Stan, on the Student/ Administration Interactive Group, which brings together undergrads, grads, and key administrators for discussion on issues ranging from parking to campus security. Other issues I've dealt with as Secretary include Steele House, reviewing the new E policy, monitoring progress on Avery House, and organizing efforts to obtain undergraduate input on the revisions to the core curriculum.

Over the past year, I have represented the student body without bias to House affiliation, and I've found that representation is most effective when there is an atmosphere of co-operation, rather than conflict, among the Houses. It is crucial that the IHC Chairman embody this spirit of cooperation, in his actions both past and present. When disputes do arise, they must be quickly resolved instead of degenerating into a shouting match. One of the great features of the last IHC, under Stan, was its ability to work together. Having known and worked with most of the old and new House presidents, I feel that the incoming IHC offers a similar — and possibly greater — opportunity for cooperation in the larger interests of the entire House membership. It's up to the IHC Chairman to take the initiative and make this opportunity a reality.

I am seeking the office of IHC Chairman because I want to contribute my experience in undergraduate representation to help address the many important issues which will confront the Houses over the next year, and I want to see the IHC remain a unified body working to advocate the common interests of the Houses.

One of my top priorities as IHC Chairman will be Avery House. Over the next year, all that remains unclear about Avery will be determined, including its role in the House system. The House system is a great asset of our community; it is difficult to imagine what life would be like here without the Houses. Gary Lorden, the Vice President for

Student Affairs, is eloquent in conveying the excitement and potential behind Avery House, but discussions in ASCIT and the IHC have brought out the complexities of merging Avery with the seven Houses — and the importance of making this merger a success. Benefits for increased student-faculty interaction, for a better food service, and for a reversal of the housing shortage make the completion of Avery House an important event. It is essential that we the students maintain an active role to bring the project to a successful conclusion over the next year. The new IHC Chairman must rise to defend the unique strengths of the House system, to ensure that Avery House is a complement to the Houses, not a threat.

The coming year is an important one for the House system. I offer my experience in House and student government, familiarity with the major issues, impartial respect for all the Houses, and strong working relations with student officers and the administration. Please remember to vote.

### Thomas J. Maccarone

The house system is one of the best things about Caltech. The houses bring together groups of people to help them to make friends more easily, to live in situations where they can be themselves, and to do the kind of things that will provide lifelong memories. At their best they provide for a friendly rivalry that inspires greater feats in sports and pranks. Most importantly, the houses genuinely aid the social development of the shier and less socially confident members of the Caltech community by instantly putting them in a social situation where people are willing to go out of the way to make their acquaintance. The houses and the associated traditions that make Caltech unique, like showering and waited dinners, help teach new students to relax and provide outlets for the stress that comes from attending the toughest school in the nation and living with a 3-to-1 male-to-female ratio. I've seen many people (myself included) blossom under this sort of influence of the house system. The biggest negative of the house system, that it encourages cloistering of students, and stereotyping of house members, can be fixed by encouraging more multihouse events where the members of the houses really interact with one another. I would like to be IHC Chairman to help preserve, maintain, and improve the house system.

While this race is suffering from lack of a former president, I believe I come about as close as possible to filling that role. As Lloyd House secretary, the house's second highest office, I did many of the things that house presidents do, like represent my house before the IHC, run house meetings, and deal with the Residence Life Office, the Housing Office, and the Student Affairs Office. I understand the intricacies of how

houses run themselves. I am currently serving as interim IHC Secretary. I'll be ready to step in and take charge from day one.

The most important annual duty of the IHC is running Rotation. I have been to frosh picks and was the rotation officer in my house. I participated in the discussion over suggestions to improve picks this summer that, with some tinkering, could make the process of picks much smoother. I'll know what to expect when picks start and will be able to handle whatever situations arise.

I worked hard as Lloyd Secretary and made sure that no one was left in the cold with regards to being informed about house functions. My duties were always accomplished as soon as they possibly could have been. No one suffered from lack of information in the room picks I ran. I helped my president keep everyone on their toes about getting their jobs done.

I have had a lot of success dealing with the administration. I got Kim West to push back due dates for on campus summer room picks so that people could see their off campus lottery numbers before committing to an on campus space. I got the ball rolling on getting the administration to return the space that is now the International Students Office to Lloyd House for use as housing and common space. Before I started working on that project, it was just a pipe dream. Now, it seems probable that the space will become part of Lloyd House.

I'm a good listener. When I do not see a clear moral superiority in one side of an argument, I will listen to all sides until they have made their points clearly. I can usually find a compromise solution that is acceptable to everyone.

I'm a good motivator as well. Many times, I have convinced people to go to social events or Interhouse sports events that they didn't think they wanted to go to, while afterwards they admitted that they had fun and were glad they had gone. I helped a lot in making the Lloyd cheering section among the loudest and most animated at swimming and diving and at track and field. I know how to inspire people to overcome their apathy. The case of Steele House shows that when Techers get behind a cause, the administration will listen. Unfortunately, apathy usually prevents the success of student government. We need more leaders on this campus with a real ability to get people fired up to take action instead of sitting around and complaining.

Here are some thoughts I have on various issues:

House rivalries are good for the campus. Rivalries are a big part of what makes our Interhouse sports so much fun. The games are more fun and more interesting when there's a little bit of pride on the line. So long as these rivalries remain friendly, we all benefit from them by more exciting games. As long as everyone shakes hands, congratulates one another after the games, and goes home friends, and everyone who wants to

play gets some playing time, more competitive rivalries in sports mean a better Interhouse sports program. Rivalries affect RF's in the same way. The desire to surpass another house's prank has inspired many good pranks at Caltech. Once again, as long as the victims are amused, and ill feelings are not invoked we all benefit from rivalries over pranks.

I can contribute to the wind of change that is sweeping ASCIT right now. There have been a lot of improvements in ASCIT affairs lately, but there's still a long way to go. I think students have the right to know how their elected officials vote on things, and why. The ASCIT News in the Tech simply does not provide this. I will push to return ASCIT minutes to the Tech, and to include in those minutes roll calls on controversial issues. For that matter, I will also push to restore IHC minutes to the Tech and the house bulletin boards, although I think certain sensitive issues might be better left unpublished and relayed to the student through the presidents. I will also push to lighten up the procedural rules used in ASCIT meetings — to abolish the use of Robert's Rules of Order and replace them with simple guidelines that ensure that everyone will get fair treatment without overburdening everyone with tedious regulations that can be invoked for unreasonable purposes. Also, people shouldn't have to sit through an entire ASCIT meeting just to pick up a check for a club or an organization — funding requests should be inserted into the agenda as soon as whatever issue being discussed is resolved, even if the person making the request shows up late. I will ensure that the Uber Council plan, which I feel is superior to our current system, is discussed enough around campus, preferably through the house presidents and the new BOD, to make sure that the next time a vote comes up on it, "Need More Information" does not win. I will push for appointed Tech editors so that teams can be formed from the best people willing to do the job and so that new editors can be added if old ones resign or feel overburdened.

The administration is still eroding students' freedoms. Certain members of the administration make it no secret that they dislike the houses for encouraging what they consider crass and inappropriate behavior. We need an IHC Chairman who will passionately defend the house system, who can explain the benefits of the houses and the traditions associated with them, and who can convince the administration that the houses and the undergraduates are capable of policing themselves socially through the IHC and the BoC just as they can police themselves academically through the Honor Code.

I hope you will consider what I have written and will consider voting for me. If you have any questions, comments, or concerns, do not hesitate to contact me ([tmacc@ugcs.Lloyd.133](mailto:tmacc@ugcs.Lloyd.133), or x1320). Thanks for reading.

D February 3, 1995  
**S STATEMENTS**

## Upperclass Director-at-Large

### **Stacy Kerkela**

It's called the Ascit Van. Ascit, as in the Associated Students... So that makes it the Associated *students'* Van. So why is it that it's harder and harder for students to use the Van that supposedly belongs to them. That is the point of this job, and that is the point of why I am running. I am fervently opposed to further restricting the use of the Van. I think clubs should have much MORE access to it, and a much more even access also. In addition the paperwork is in strong need of revision, and no one should have to go off campus, or track down people who aren't students in order to sign it out.

Ascit is a service oriented organization, and it fulfills a lot of very important tasks that often are behind the scenes, but never the less, make student life easier, pleasanter, and sometimes a little less stressful. The purpose is somewhat de-

feated when a toner-less copier, or a Van with no traceable set of keys causes more frustration than it could ever abate. My work and your vote will help avoid this.

### **Laura Muñoz**

I'm running for Upperclass Director at Large. On many occasions, I have tried to use the old ASCIT copier, and it has been broken. I look forward to the day when it will be removed, punished, executed, and replaced by one that works. The Director at Large must keep track of the ASCIT copier and vans and make sure that they are fixed if they're broken. As for the vans, I believe I can keep accurate records of van sign-outs, and I would see to it that repairs were made as quickly as possible. I think I'm responsible enough to perform these duties and others assigned by the Board of Directors. I would enjoy keeping these services of van and copier available to undergrads.

## BOC Secretary

### **Ricky Carson**

The duties of the BOC Secretary include maintaining the records of the proceedings of the Board of Control and assisting the Chairman with preliminary investigations. Publications, such as the Honor System handbooks for students and faculty, and organization of meetings also come under the purview of this office. In addition, as an advocate of the Honor System, the Secretary is sometimes called upon to represent the undergraduates to faculty, administration, staff, and outside groups, along with the Chairman, or in cases where the Chairman is obliged to be absent. Thus, the Secretary must be ready to share in the burden of preserving the Honor System.

Serving as a House representative on the Board of Control over the past year, I have been exposed to

Honor System issues and dealt with cases involving possible Honor System violations. My term on the Board of Control and more than two years living under the Honor System have given me the experience which I believe is necessary for the office of BOC Secretary. I am familiar with the responsibilities of the Secretary, prepared to take on the heavy burdens of the office, and able to serve the undergraduate community justly and effectively.

### **Chris Walker**

As a House Rep. for the past year, I have served on a wide variety of cases. While often unpleasant, they have given me the experience necessary to perform the duties of Secretary. If elected, I will continue to serve the Board to the best of my abilities.

## Academics and Research Committee Secretary

### **Kohl Gill**

Hello. My name is Kohl Gill, and I want to be your Academics and Research Committee Secre-

tary. This new committee will be working with nearly every aspect of academics and research life at the Institute, including the Core Curriculum Task Force, the poli-

cies of the Registrar's office, the efforts of the Dean's office, and laboratory safety policies, among others. With such far-reaching influence comes considerable responsibilities, which, in conjunction with the fact that this committee has never existed before, necessitates capable officers. To tell the truth, I'm a freshman, so I don't have a long list of credentials, but what I do have is a strong work ethic to do this job and the brains to do it right. Vote Kohl Gill for your ARC Secretary. You may be surprised at the work I do, but you will *not* be disappointed. Thank you.

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## Director for Social Activities

### **Greg Steiert**

As we toil through life, many people come to the conclusion that life just isn't fair. Quite often the recognition a person receives is not proportional to the work they do. A good deal of the time, as with the office of social director, the work is greater than the recognition. With the amount of work involved, it is no wonder that no one had signed up for this office until the day before nominations closed. Yet, why did these few people decide to take the chance and run? While I cannot speak for my opponents, I can tell you why I would like to be your next ASCIT Social Director.

For me, there is much more to life

than being recognized for what I have done. While it is nice to have others notice what you have accomplished, I find the mere fact that you have accomplished it much more satisfying than the recognition you may or may not receive. To me the greatest accomplishment in life is positively influencing the lives of others, regardless of whether or not they realize it. I guess this is why I have been a part of my house's social team, why I always volunteer for decompression, and why I am the current president of the local student chapter of IEEE.

The job of social director is a service job, and I am here to serve. I have been a member of my house's social team and a member of the ASCIT Social

Committee, so I know what the job entails. I am prepared to put forth that much effort and more, whatever it takes to see that the students here have a social outlet for the stress that builds up in our daily life at Caltech. As president of IEEE I created the monthly EE Social Hour, and as Social Director, I will strive to develop more such events that create unity between the houses, and in doing so, give each student a broader basin of people and experiences to draw on. If elected I plan to do everything in my power to improve the quality of social life, and if I can improve the quality of campus life, any amount of work will have been worth it. A vote for Greg Steiert is a vote for effort and experience.

## Freshman Director-at-Large

*Meg Crocker's statement is on the next page.*

### **Krishna Gidwani**

The primary responsibility of the Freshman Director-at-Large is to facilitate the compilation and publication of the Undergraduate Research Opportunities Handbook (UROH). Only someone with a considerable amount of experience in publications and related areas can ensure that the UROH is successfully completed in a timely manner. I am currently the Chief Assignments Editor of *The California Tech*. In this capacity, I routinely deal with meeting deadlines and various aspects of editing. I have already acquired UROHs from previous years and familiarized myself with their format. I have also spoken to numerous professors to find out about research opportunities that have not been publicized in the past. The office of Freshman Director-at-Large carries with it numerous other responsibilities. I am confident that the knowledge that I have gained as a member of the Dean's Advisory Committee for the Core Curriculum and the Educational Policies Committee will enable me not only to handle, but to excel in all aspects of the office. My goal is to serve my fellow freshmen and undergraduates to the very best of my ability. I sincerely hope that you will seriously consider Krishna Gidwani for Freshman Director-at-Large. Above all, please remember to just vote.

### **Bradley J. Marker**

Many of you already know who I am. Those of you who don't, just grab a frosh and ask them. Most frosh should have something positive to say, but after being harassed by much of the upperclass at my suggestion . . . who knows?

What are my qualifications for being Freshman Director at Large? The first and most important is that I am a frosh. I also have finely developed my time management skills (a.k.a. flicking abilities). I manage to spend a large majority of time wasting it instead of using it, yet I have never lost points for turning in an assignment late. (I would like to take a moment to thank my magnificent C.S. T.A.'s for their gracious extensions on labs. I am most thankful.) Do not get me wrong, I can work hard and I always do what is required of me. Besides, I need less than four hours of sleep a night. These qualities add up to plenty of free hours for holding an office. I should have no trouble finding time to work on the UROH and other responsibilities of the Freshman Director at Large. I almost need an extra project to fill the early hours of the morning when many others are asleep. Next year, I may change my mind about free time, but I won't back down.

On the more serious side, I have a few qualities that might be useful in editing the UROH. Once, by some fluke, I

won an award for my creative writing abilities. I have also been published in my high school's literary magazine. All four years of high school, I competed against (and on) the debate team, which will be valuable experience when the Freshman Director at Large's responsibility for "other duties as specified by the Board of Directors" come into play. I know how to deal with and relate to upperclassmen. I am rooming with a junior, so I have all too much experience negotiating with upperclassmen to get my way. You would be surprised how often I get shotgun when riding in a car full of juniors.

I would make an excellent representative of my class when called upon, and my interest in the undergraduate research programs available at Caltech guarantees that I will work hard on the UROH's production. I can offer the position of Freshman Director at Large an easy-going personality, long hours, hard work, and a genuine interest. Any necessary skills that I lack, I will learn. In an emergency, I have Gina's number around here somewhere (not to fear, Gina, I won't call).

### **Melissa Saenz**

How would you like a quality Undergraduate Research Opportunities handbook distributed as EARLY as possible? As Frosh Director at Large an early UROH would be my goal. Thanks for your vote!

### **Christopher ("Topher") Hunter**

The ARC has been highly modified by recent bylaw changes, and the Secretary is a new position with little definition. As Secretary, I will make sure that the undergraduate community is made fully aware of any important developments within the committee through regular postings to newsgroups, the Tech, and any other appropriate areas. When deemed necessary, I will work with the committee to poll the undergraduate

community as a whole in order to better understand their needs and wishes.

As far as credentials are concerned, I have served on Blacker House ExComm for two years and on the Caltech Y ExComm for two years, this last year serving as YExComm Vice-President.

With a strong and determined Committee, the ARC has the potential to make a real difference on this campus, both in the immediate future and in the years to come. I will work to help define the powers and responsibilities of the ARC and the ARC Secretary for the benefit of both the undergraduates and Caltech as a whole.

# STATEMENTS THAT DIDN'T FIT IN THE INSERT

## Editor of *The California Tech*

### Team of 5

**Shay Chinn,  
Stephen Van Hooser,  
Wei-Hwa Huang,  
Terry Moran,  
Mason Porter**

*The California Tech* holds to it an honor and responsibility that has endured throughout the years. The *Tech* calls to it a group of industrious students to attempt to best represent and inform the student body of the motions that are arising in the world around them. The great responsibility inherent to editing the *Tech* must never be taken for granted: zeal alone is not substantive, but pure perseverance as well as experience is what is needed. We feel that by binding together a group of experienced students who are dedicated to making the creation of a better *Tech* a top priority we will more fully fulfill the needs and wants of you, the student body. The union of our diverse talents, experience in newsprint, and berth of viewpoints and inventiveness, and initiative and desire to always better our own works in this important position, promise to make a *Tech* that will hold up to the standards of time.

Our staff is the only team containing a previous editor. We are a tested team of *Tech* editors and writers, and we have the aspiration to advance the *Tech* as a representation of the student body. We promise to be the best union of experience, cooperation, and vision. We urge you on voting day to vote for the best interests of the *Tech* and the student body.

### Team of 3

**Neal Dalal,  
Alan McConchie,  
Aloysius Wild**

Our Plan: All Dilbert. All the Time. (sorta)

Okay, here's the page by page breakdown of the new *Tech*:

Page 1: Dilbert  
Page 2: Dilbert  
Page 3: Dilbert  
Page 4: Events and Notices  
Here's Why : The *Tech*, it kinda sucks.

You've all seen how the *Tech* has

been. You open it up, and what do you find? Crap. Nothing you wanna read. Whaddya want? You want Dilbert. You want lots and lots of Dilbert. That's all you want, just Dilbert. Week after week of nothing but pure, unadulterated DILBERT!

And that, my friends, is what you're gonna get.  
No Kreative Korner.  
No S&M.  
No Wei.  
All Dilbert. All the time.



### Momo Jeng

**Momo, Momo, Momo**

By talking to my fellow undergraduates, I have determined that many students believe that the California Tech is not a truly top-notch newspaper. The question is whether or not it can be made any better — Caltech students are generally not skilled writers, and are usually too

burdened by schoolwork to spend much time on a newspaper. However, after considering the California Tech and its role at the Institute, I have come up with a plan to make the California Tech the informative, entertaining and interesting paper that it should be. My plan has been carefully thought out, and is sure to be effective when implemented. Unfortunately, if I reveal my plan at this time, the administration will be able to use their usual repressive techniques to prevent me from carrying it out. Therefore my plan must remain, for the time being, a secret. However, once elected, I will implement my secret plan, and the administration will be powerless to stop us from creating an high-quality paper. You have my word that my secret plan will work, not only as the moon, but as a Unitarian minister. So when you vote Monday, vote for me — or don't vote at all. Quack, quack, quack.

## Fr. Dir.@Lrg.

### Meg Crocker

Hi folks: I'm Meg. I'm a frosh, so some of you may not know me. I came to Caltech from North Carolina to study physics. Physics is a beautiful science. I really love it, but I'm not quite ready to sell my soul to it yet. I also love to dance and to meditate and to talk to strangers in the street. I love cooking and cleaning and mountains. I love playing Ultimate, DOOM, and really loud music. When does a physicist ever get to do any of that? "Look guys, I've solved the solar neutrino problem, let's party!" So maybe I am experiencing some doubts about my prospective career right now. I've never doubted my decision to come to Caltech.

I fell in love with Caltech when I came to prefrosh, and everything I've seen of Tech since then has confirmed that impression. The people here are the greatest; I haven't met anyone I don't like. The Honor System really works. Students and faculty work together closely to improve and administrate the university. I'm impressed, and I'd sincerely like to become more closely involved. I look at it as an opportunity to get to know everyone better, to trot out some of my own humble ideas for making Caltech even better, and to give something back to this place that's giving me so much. I know the ASCIT BoD and the UROH will require a lot of time and dedication, and I'm looking forward to it. I take my responsibilities seriously, and I work very hard, and I think you'll be pleased with the job I'll do. Please remember to vote on Monday, and consider voting for me.

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- Mike Cacciopoli, WABC RADIO/NEW YORK

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- SISKEL & EBERT

ethan hawke julie delpy  
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SUNRISE**  
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\$1.00 refunded with ticket purchase.	3 hours validated parking — \$2.00.
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* CAMARILLO Edwards	* PASADENA United Artists Marketplace 818/795-1386
Camarillo Palace 12 Cinemas 805/383-8866	
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# SPORTS

## INTERCOLLEGIATE ATHLETIC EVENTS THIS WEEK

Sat., Feb. 4	- Baseball vs. Cal Maritime (2)	Home	11:00 a.m.
	- Track and Field (Mt. Sac All-Co.)	Away	11:00 a.m.
	- Swimming vs. Whittier	Home	11:00 a.m.
	- Fencing (UCSD Invitational)	Away	TBA
	- M. Tennis vs. Occidental	Away	1:00 p.m.
	- Basketball vs. Claremont-Mudd	Home	7:30 p.m.
Mon., Feb. 6	- Golf vs. Occidental (scrimmage)	Home	1:00 p.m.
Tue., Feb. 7	- W. Tennis vs. Marymount	Away	1:30 p.m.
Wed., Feb. 8	- W. Tennis vs. Mt. St. Mary's	Home	3:00 p.m.
	- Basketball vs. Redlands	Home	7:30 p.m.
Fri., Feb. 10	- Baseball vs. Occidental	Home	2:30 p.m.
Sat., Feb. 11	- Swimming (Open Diving Meet)	Claremont	9:00 a.m.
	- W. Tennis vs. Biola	Home	10:00 a.m.
	- Baseball vs. Occidental (2)	Home	11:00 a.m.
	- Fencing vs. USC, UCLA, UCSB	UCLA	11:00 a.m.
	- Caltech Invitational I	Home	12:00 p.m.
	- M. Tennis vs. Biola	Home	1:00 p.m.
	- Basketball vs. Cal Lutheran	Away	7:30 p.m.
	- Basketball vs. Occidental	Away	7:30 p.m.

## INTERHOUSE RESULTS (after track but pre-ultimate)

- |             |     |
|-------------|-----|
| 1 Fleming:  | 230 |
| 2 Page:     | 204 |
| 3 Lloyd:    | 153 |
| 4 Ruddock:  | 130 |
| 5 Blacker:  | 124 |
| 6 Dabney:   | 69  |
| 7 Ricketts: | 42  |



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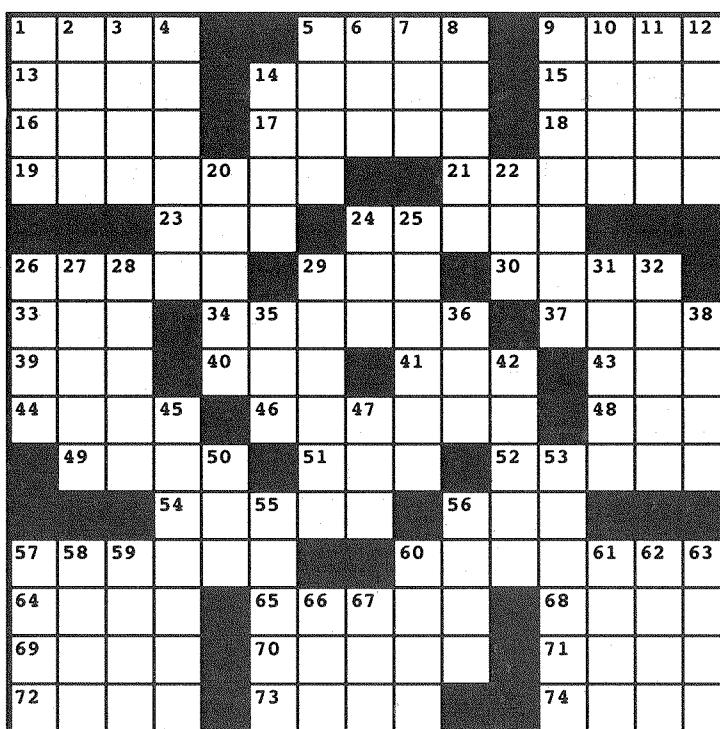
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## Anti-Crossword

edited by Wei-Hwa Huang



This is the "Anti-crossword." Whatever the clues are, they're not the answer — just the opposite.

### ACROSS

- Quail?
- Right
- Open
- Good
- Koran
- Ones
- Throat
- All
- Falstaff
- Sadden
- Mirror
- WSW
- Uncurse
- Sly
- Scones
- Be straight
- Lamprey
- Rises
- This
- AP
- Tomorrow
- Windows
- Dishonest guy
- In the black
- Quite
- Ga.
- Franc
- O'
- Incomplete
- Right
- Ribosomes, messengers, and transfers
- Aisle
- Analog
- Bored
- Leave
- Data

- Creativity
- Showed fairness
- Sudipta, Sara, Lael, Tequila, Barbara, Advoquita, Jennifer, and Jing
- Francis
- Iris
- Alive

### DOWN

- Rick and Michael
- Round
- Unready
- 29-Down
- Positive
- After
- Around
- Rosemary, parsley, and sage
- The light side of the moon
- Predecessor
- Command-R
- Rasputin, e.g.
- Ahead?
- Wrist
- Well
- Saw
- Condemn
- Jeopardy and Wheel of Fortune
- Attract
- Confession
- 4-Down
- Tunnel
- Bring up for debate
- Theater release
- "We're fine..."
- Mend
- Soothed
- Skipped
- Carpet
- NCB?
- Led
- Not okay
- No news
- Cool
- Frankenstein
- Forget
- Halls
- Mended
- Be-bop
- Borrow
- Married name
- Burn

## YES '95

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The program runs from July 10th to August 11th.

Applications are available in the Caltech Y, and are due on Friday, February 17th.

Contact Athena at x6321 or through e-mail at: castroa@starbase1 for more information.

# BABBITT VISITS TECH

FROM PAGE 1

to the possible elimination of the USGS.

He explained that there has been no formal response from the congressional leadership on this issue, but that over the next thirty days, there are two possibilities that might destroy the USGS. First, the "Sudden Death" option: the Budget Committee can say that the total allotment "excludes the USGS" and other proposed scientific cuts. Alternately: the Appropriations Committee could simply zero out its budget allotment. If either of these occur, it is very difficult for the President to respond, as it is hard to simply look through

the entire budget, much less respond to three individual lines. When he was asked "Realistically, how much danger is [the USGS program] in?" he replied that the "Contract with America" would kill it. One of the arguments used in favor of abolishing government funding of the USGS is that "In a best case so far,

they say that you will have an earthquake in fifteen seconds! And we are spending billions for those seconds!" There are faults with this viewpoint; as mentioned above, the bulk of information is on saying how prone an area is to earthquakes, and how best to build areas to survive quakes, as well as better response to them so that

the damage is minimized.

The Secretary went on to describe his impression of science at Caltech (in his own words, "Let Anarchy Reign!"), and how he felt this analogized to what made the United States so important in science. That there is independence and spontaneity; that there is no overriding committee deciding its fate. That the various agencies of science and government should be partnerships working to help each other, not one ruling over the other.

Secretary Babbitt seemed pleased at what he had seen at Caltech, and extended concern at what may happen if the current path in Congress is not changed. The elimination of several science and research programs have a good chance of being cut in the next month. For both Caltech and the rest of the United States, it seems the next budget will make many people anxious to see which programs are cut, and which will be allowed to survive.

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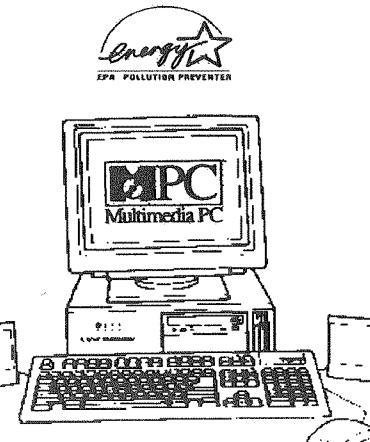
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**Notices**

The Department of Geology and Planetary Science is initiating a research tutorial similar to the Physics 11 class taught by Professor Tombrello. Since this is the first year the Department has offered such a course, it will be merged with the present Physics 11 class. There will be three spots available. Students are admitted based on their performance on a hurdle. Enrollment in the class guarantees support for summer research at Caltech. Hurdles will be available upstairs in Sloan Annex and must be turned in by February 7th at 5:00 p.m.

The Peace Corps will be visiting Caltech on Career Day, February 16th from 11 a.m. to 3 p.m. to inform students about programs available through the Peace Corps in over ninety different countries throughout the world. They invite all students to come visit their booth so students may discover how their innovation, diligence and zeal can be applied to further the efforts of the Peace Corp worldwide.

*The Totem* is now accepting submissions! All undergraduates, graduates, and faculty are welcome to submit poems, short stories, essays, photos, art, music, or any original compositions. *The Totem* is also looking for a creative cover design for this year's volume. Designs should be drawn in ink and be 8 1/2" x 11". Please limit designs to two colors. The winner will receive \$25 and a free, autographed copy of *The Totem*. The deadline for both talent searches is April 14th. Send all submissions either by e-mail ([totem@ech.caltech.edu](mailto:totem@ech.caltech.edu)), mail (MSC 990), or by foot (Page, room 132).

Sharyn Slavin, Assistant Vice President for Student Affairs, and Stan Borodinsky, Student Affairs Administrator, invite you to stop by the Coffeeshop on Friday afternoons from 2 to 4 p.m. to talk with them. All students are welcome, and free drinks will be available. Please drop by and get to know Sharyn and Stan. They will be happy to answer questions or provide assistance.

The AIDS Service Center presents "Just Say Know," a free eight week educational support group that will explore different topics related to HIV and AIDS. "Just Say Know" will meet every Tuesday from 6:30 to 8:30 p.m. through March 21st at the AIDS Service Center, 126 West Del Mar Boulevard, Pasadena. To participate, call Tom Drake at (818) 398-4553.

The Caltech Muslim Student Association will hold Muslim Friday Prayers weekly in the Y-lounge at 12:40 p.m.

"Take a Break and Spend Some Time with Friends." The office of the International Student Programs would like to invite you to our Open House for coffee, tea and conversation. Every Wednesday from 4:00 p.m. - 5:30 p.m. at the office of International Student Programs, Olive Walk. Open to the entire Caltech community.

## From the Counseling Center

On Wednesday, February 8th, the Counseling Center will be holding a workshop to help individuals overcome feelings experienced when relationships end. Starting at 7:30 p.m. in the Winnett Lounge, speakers will include Kevin P. Austin, Ph.D., and Mark Rosenblatt, M.A.

The counseling center will be offering a group for undergraduate students who are interested in developing skills that will help them overcome their shyness. The group will meet for five weeks, on Wednesday, from 3:00-4:30 p.m. beginning February 8th. The focus of the group will be (1) understanding your shyness and the underlying thoughts and beliefs that serve to maintain shyness, (2) developing skills to manage your anxiety and to help you become more effective socially, and (3) increasing your confidence and level of comfort by joining others who can identify with and support your experience.

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

## Coming Events

The South African capella ensemble Ladysmith Black Mambazo will be performing in the Beckman Auditorium at 8:00 p.m. on Saturday February 11th. Ticket prices will range from \$25.00 to \$31.00, \$8.00 for students beginning a half hour before the performance.

Dr. James Bower will be giving a lecture entitled "Scientists and Science Education Reform: Myths, Methods and Madness" on February 15th at 8 p.m. in the Beckman Auditorium. This Earnest C. Watson Lecture is free and open to all of the Caltech community.

The Chinese Golden Dragon Acrobats will present gymnastics, magic, slapstick comedy and Chinese Dance on February 18th at 8 p.m. in the Beckman Auditorium. Admission will range from \$19.00 to \$25.00 for adults, \$8.00 for student tickets sales beginning one half hour before the performance.

The Lark Quartet will perform in the Beckman Auditorium on February 19th at 3:30 p.m.. The program for this Coleman Chamber Concert includes Daydn's Quartet in E-flat Major, Op. 33, No. 2; Schnittke's Quartet No. 3; and Beethoven's Quartet in F Major, Op. 135. Admission prices

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The Caltech-Occidental Concert Band will hold a free concert on February 16th at 8 p.m. at Thorne Hall, Occidental College. Hosting guest tenor Robin Reed, the program will include a new composition which depicts the Salem Witch Trials by D. Mark McCoy, as well as music by Camille Saint-Saens, Richard Strauss, and Giuseppe Verdi.

The Arditi String Quartet will give a Coleman Chamber Music Concert on Sunday, March 5th at 3:30 p.m. in the Beckman Auditorium. Included in the program will be Duruflé's Ainsi La Nuit; Gubaidulina's Quartet No. 3; Nancarrow's Quarter No. 3; and Berg's Lyric Suite. Fifty tickets to this concert will be available to Caltech students with I.D. (limit two tickets per I.D.), available from the Caltech Ticket Office north of the Beckman. Tickets are regularly priced from \$12.00 to \$22.50.

On February 10th in the Beckman Auditorium at 8 p.m., Sherilyn Mentes will personally narrate the an Armchair Adventure travel film entitled "The New South Africa." Admission will be \$6.50 to \$8.00.

On Saturday, February 11th at 7:30 p.m., the Castle Shakespeare Company will be holding a dramatized reading of *Romeo and Juliet* at the Old Town Pasadena Barnes and Nobles. A non-profit professional theater company based in Pasadena, the Castle Shakespeare Company also offers a unique Valentine's Day service: "a costumed professional actor will surprise your love with a recitation of a Shakespeare sonnet, and then present one perfect rose and a beautiful printed scroll of the sonnet." For more information, or to be added to their mailing list, please call 564-8564.

The Caltech Folk Music Society will present singers Steve Gillette and Cindy Mangsen in concert at 8:00 p.m. on Saturday, February 4th in Dabney Hall. Gillette's songs have been recorded by Linda Ronstadt, John Denver, Gordon Lightfoot, and Anna Murray, while Mangsen has recorded a pair of memorable albums featuring her "rich, full voice." Tickets are \$10 each, \$4 for Caltech students.

An all-new edition of "Masters of Magic and Illusion", featuring the magic of Tiny Clark and Les Arnold, will be held on Saturday, February 4th in the Beckman Auditorium. Admission is \$9 for adults, \$5 for children. For more information, please call x4652.

Paco A. Lagerstrom Chamber Concert will be performed by Nai-Yuan, violin, and Paulina Crane, piano, on February 5th at 3:30 p.m. in the Dabney Lounge. The performance will include Mozart's Sonata in E minor, KV 304; Beethoven's Sonata in F major, Op. 24; and Strauss' Sonata in E-flat Major. Admission is free.

Pianist-Composer Vatché Mankarian will perform works by Bach, Beethoven, Debussy, Babajanian, and Mankarian on Sunday, February 12th, at 3:00 p.m. in Harbeson Hall, Pasadena City College. General admission is \$20, students \$10. For ticket information, please call 794-2141.

## Club Announcements

The Dark Room User's Group (DRUG) will be holding a free black and white film developing class on Saturday, February 4th in the Darkroom (Room 39 in the Student Activities Center, under the South Undergraduate Houses) at 2 p.m. Both current and prospective members are welcome to come. Contact Tim Shoppa (x4327, [shoppa@airair.caltech.edu](mailto:shoppa@airair.caltech.edu)) or Alex Zeyliger ([waha@ccr.caltech.edu](mailto:waha@ccr.caltech.edu)) for more information.

The next movie to screen in the German Film Series is *Ehe Der Maria Braun* (1979). It will be shown on Thursday, February 9th in Baxter Lecture Hall at 7:30 p.m. This film features English subtitles and is presented free of charge. For more information, please call 395-3610.

The Caltech Ballroom Dancing Club offers free beginning ballroom dance classes available to all. These are perfect classes for people who have never danced before or for people who want some basic step help. People are welcome to join the classes anytime and it is not necessary to have a partner for any of the classes. Please note, however, that the beginning ballroom dancing class has been moved to Thursday nights in Dabney for the dates of February 9th, 16th, and 23rd, though classes will resume on Monday nights in Winnett as of the 27th of February. In the larger room the group will learn the waltz, Viennese waltz, and polka. For more information, contact Jeanne Hardebeck at [jhb@seismo.gps.caltech.edu](mailto:jhb@seismo.gps.caltech.edu), x6971, or MC 252-21.

The Caltech Folk Music Society are looking for more volunteers to help with mailing and publicizing their concerts, learning how to engineer the sound system, setting up before and tearing down after the concerts in exchange for free admission and a great opportunity to schmooze with guitarists, songwriters, and bluegrass musicians. If you are interested in giving a few hours a month, or would like to receive announcements for each concert, give Rex a call at 791-4583, or come to the next concert in Dabney at 8:00 p.m. on Saturday, February 4th.

Club Latino, an apolitical student organization functioning in and for the Caltech Community, will hold a meeting on Monday, February 6th at 5 p.m. in the Caltech Y Lounge. Members of the club are currently working on the organization of "Semana Latina". If you are interested in helping with the organization of this event, you are welcome to assist to the meeting. For more information, please send e-mail to

*mariomu@systems.caltech.edu* or call Mario at x4880.

Join the Caltech Shaolin Kung-Fu Club to learn and develop usage of classical kung-fu techniques, Chinese weapons, qigong, iron body training, meditation, proper stretching & holistic health practices. For further information, please contact Sifu Gene Black at (818) 359-1270, or Prof. Steve Wiggins at x4127.

The Ballroom Dancing Club meets this Friday from 7:00 to 9:00 p.m. in Winnett lounge for a dance break. This dance practice is open to beginners, intermediate and advanced dancers who want to practice dancing or socialize and watch others dance. For more information, contact Jeanne Hardebeck at [jhb@seismo.gps.caltech.edu](mailto:jhb@seismo.gps.caltech.edu), x6971, or MC 252-21.

## Internships and Competitions

SEE, Students For An Energy-Efficient Environment, is announcing its first national internship program. SEE, is currently recruiting Student Government Leaders, Environmental Leaders, and other ambitious, motivated, and outstanding students from across the nation to join their internship program. Twenty students will receive a \$10,000 stipend and a trip to Washington, DC, from March 17th to 19th, to learn about energy-efficient technologies and then work on campus to make them a reality. Open to Freshmen, Sophomores, and Juniors, all applications must be received by February 22nd. Please come to the Deans' Office at 102 Parsons-Gates for an application. If you have any questions about the internship or SEE, call 617/493-6271 or e-mail at [fine@huac.harvard.edu](mailto:fine@huac.harvard.edu).

University Center on Philanthropy, 550 West North Street, Suite 301, Indianapolis, IN 46202, or call (317) 274-4200.

Sao Summer Internship Program 1995 Applications are invited from undergraduates to participate in the Smithsonian Astrophysical Observatory Summer Intern Program at the Harvard-Smithsonian Center for Astrophysics in Cambridge, Massachusetts. We anticipate that twelve positions will be offered during the summer of 1995. Research opportunities exist in all areas of astrophysics from planetary science to cosmology including theory, observation, data analysis, instrumentation and laboratory astrophysics. The program will provide students with the opportunity to use telescopes at the Oak Ridge Observatory and to present a paper at a scientific meeting. The Intern Program begins June 12th and ends August 18th, 1995. The stipend will be \$250 per week, and housing/travel will be subsidized. Applicants must be US citizens (or hold a valid green card) currently enrolled in a program leading to a bachelor's degree. Graduating seniors are not eligible. For more information email to: [IN%kdow@corwin.harvard.edu](mailto:IN%kdow@corwin.harvard.edu)

## Fellowships and Scholarships

The Financial Aid Office has applications and/or information on the following and additional scholarships. All qualified students are encouraged to apply. The Financial Aid Office is located at 515 S. Wilson, second floor.

The College Women's Club of Pasadena Scholarship Foundation is awarding scholarships and fellowships of at least \$1,500 for the 1995-96 academic year. Applicants must be at least second year undergraduates or graduate students who will be enrolled full-time in 1995-96, and who have at least a 3.0 GPA. Completed applications and all supporting documents must be submitted to the Financial Aid Office no later than February 9th, 1995.

The American Society of Naval Engineers is sponsoring a scholarship program with awards of \$2,000 each for the 1995-96 academic year. Eligible students must be U.S. Citizens, graduate or undergraduate students (undergraduates must be in their final year of study), majoring in engineering, and who demonstrate a genuine interest in a career in naval engineering. Demonstrated financial need is not a requirement but may be taken into consideration. Applications are available from the Financial Aid Office, and are due February 15th, 1995.

The American Meteorological Society announces the 1995-1996 AMS/Industry Undergraduate Scholarship competition. Full-time students who will be juniors in 1995-96 and who are: 1. Pursuing a course of study leading to a B.A. in the atmospheric or related oceanic or hydrologic sciences; or 2. Enrolled in a program leading to a B.S. in a science or engineering who have demonstrated a clear intent to pursue a career in the atmospheric or related oceanic or hydrologic science following the completion of appropriate specialized graduate level education are eligible to apply. Applicants must also have a minimum 3.0 GPA, and must be U.S. Citizens or permanent residents. The awards are \$2,000 for 1995-96, and are renewable for the following year (the senior year). To request an application, mail a self-addressed, stamped envelope to: American Meteorological Society, Attn: AMS/Industry Undergraduate Scholarship Program, 45 Beacon Street, Boston, MA 02108-3693. Applications are due February 17th, 1995.

The American Chemical Society is pleased to announce a Minority Scholarship Program to African-American, Native American, and Hispanic students. Eligible students must be currently freshmen, sophomores, or juniors who are enrolled in chemistry, biochemistry, or chemical engineering programs. Scholarships of up to \$2,500 a year will be given for the sophomore year; students who will be juniors and seniors in 1995-96 will receive up to \$5,000. Interest in chemistry, biochemistry, or chemical engineering, demonstrated potential for success, and financial need will be considered in evaluating the applicants. Additionally, eligible students must be U.S. Citizens or permanent residents, and must have a minimum GPA of 3.0. To obtain an application, or more information, phone 1-800-227-5558 (then press 9, press 3, press 5). Applications are due March 1st, 1995.

The Society of Manufacturing Engineers announces the availability of 41 scholarships for undergraduates, and 10 graduate fellowships. All of the undergraduate scholarships require applicants to be full-time, second year students with a minimum G.P.A. of 3.5. Forty of the scholarships are being offered to students who are enrolled in a degree program in manufacturing engineering or manufacturing engineering technology. One scholarship is available to a full-time stu-



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dent seeking a career in robotics/automated systems. The graduate fellowship is offered to a student in a graduate program for manufacturing engineering or manufacturing technology. Applicants for the graduate fellowship must have a minimum 3.5 G.P.A. and must have proven scholastic ability, exemplary character, and leadership capability and who have demonstrated their potential for future leadership in the profession. Completed applications are due March 1st, 1995.

The Marin Education Fund is offering grants to Marin County Residents who are undergraduates enrolled at least half time. Specific criteria for grants and scholarships vary. Applications are available from the Marin Education Fund, 1010 B Street, Suite 300, San Rafael, CA 94901, (415) 459-4240. Applications must be postmarked by March 2nd, 1995.

Green Hills Software annually awards several merit scholarships in the amount of \$2,500 and \$5,000 to Caltech undergraduates who have demonstrated ability and special aptitude in computer science. Those awards are for the Junior and Senior school years. In addition, Green Hills will award one or two Undergraduate Fellowships consisting of a Senior year scholarship plus a \$6,000 summer internship for the preceding summer. All awards are made on the basis of merit, given without regard to financial need. Any student currently holding a Junior year Green Hills award must reapply in order to be considered for a Senior year award. The deadline for submitting the Green Hills Scholarship application to the Financial Aid Office is March 10th, 1995. Applications are available at the Financial Aid Office, 515 S. Wilson, and the Dean's Office, 102-31.

The American Scandinavian Foundation of Los Angeles (ASF/LA) is awarding four \$1,000 scholarships to undergraduate and graduate students with a demonstrated interest in Scandinavia. Applicants must have strong academic qualifications and must show financial need. Two letters of recommendation, appropriate transcripts, and the completed application are due by March 15th, 1995.

The American Association of University Women, Danville-Alamo Branch, will be awarding several scholarships of \$500-\$1,000 to female students who will be juniors or seniors in the 1995-96 academic year, and who are from the San Ramon Valley (Danville, Alamo, San Ramon, or Diablo, CA). For more information or an application packet, send your request with a \$5.52 stamped, self-addressed large envelope (minimum 9" x 6") to: Janet Lather, 703 Contada Circle, Danville, CA 94526. Completed applications must be postmarked by March 31st, 1995.

The Chinese-American Educational Foundation is offering scholarships to graduate and undergraduate students of Chinese descent. All applicants must be full-time students in 1995-96, and have at least a 3.0 GPA, and permanent residence in the United States. Completed applications must be received by April 10th, 1995. If you enjoy teaching and kids/teens in the K through high school range you might enjoy doing a Teaching Fellowship after graduation. Science and math teachers are usually in high demand, and many Caltech students have teaching or tutoring experience. A teaching fellowship can be a wonderful interim year and a great way to experience a different part of the United States. Some independent schools are residential and others are day schools. I have recently acquired a list of current teaching fellowship opportunities at independent schools. Typically fellows receive a stipend (approximately \$15,000 to 17,000 at a boarding school plus room and board). At a day school the fellowship will have a slightly higher stipend. If you would like a copy of this list, more information on these fellowships, or help applying email Lauren Stolper at [Lauran\\_Stolper@starbase1.caltech.edu](mailto:Lauran_Stolper@starbase1.caltech.edu). Deadlines vary and can be as early as February or as late as June, so start exploring this fellowship now.

Attention undergrads interested in the application of technology, innovation, or entrepreneurship: Spend next fall as a Lemelson Fellow at Hampshire College in Massachusetts. As a Lemelson Fellow you are part of a group of fellows from across the country. Each fellow participates in a special fellowship course