



Basketball team receives national recognition.

see page 9



Ratio makes it hard for students have relationships at Tech.

see page 5

# THE CALIFORNIA TECH

28

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## TIDE lets students and faculty improve quality of instruction

BY CAROLYN MERKEL

TIDE is in! A new program for student and faculty collaboration has been unveiled at Caltech!

Tired of the same old badly hand-drawn cartoons illustrating important principles in your courses? Can't make sense out of the squiggly lines that your instructor says clearly show something crucial to your understanding? TIDE is in!

A new program, Teaching and Interdisciplinary Education (TIDE), has been created to employ the creativity and expertise of students and faculty working together to develop educational opportunities, materials, methods, or curriculum. One focus of TIDE is to develop computer-based teaching tools to enhance instruction at Caltech. Students

will collaborate with faculty members who are enthusiastic about implementing new teaching methods. They may develop original animations, visualizations, or other presentation materials to address the specific needs of an instructor and the course material. Students may work in teams.

The Chemistry Animation Project, under the sponsorship of Professor Nate Lewis, is the prototype of these kinds of projects. Teams of students have worked for several years under the SURF program to create visualizations of chemical reactions, atomic orbitals, Miller indices, lattice vectors, crystal surface structure, and other theories and concepts. The graphics used in Ch 1a are another example of the kinds of projects on which students might work. The National Science Foundation has now

awarded Professor Lewis a grant to develop these tools for other Caltech courses in all disciplines.

TIDE students will work with faculty project directors, perhaps attending the class during the academic year to become familiar with the substance of the course and think about ways to visually enhance the material. Students could be paid for attending the class, but, of course, they cannot be paid and receive academic credit for the same class. It is expected that most of the work will occur during a ten-week summer period. Students will be paid \$10/hour, or \$4000 for the summer.

TIDE gives students the opportunity to use their creativity and originality on these projects. Students might create interactive websites for a course or quick-time videos to embed in computer-gen-

erated lecture notes used in class. Students, the customers of the courses, will have the best ideas about how to apply graphics to enhance the learning environment.

Several TIDE projects have been listed for Bi 1, Bi/Ch 170, and CS 141, and we expect other courses to be listed in the near future. Interested students can find out more on the TIDE webpage (<http://www.cco.caltech.edu/~tide>). To apply for TIDE, students will contact the project director to define and develop the project, complete an application and write a Technical Implementation Plan (TIP), solicit three recommendations from faculty and staff at Caltech. All information is available on the web page. Students can also call the TIDE Office at ext. 2885 or visit TIDE at 137 Beckman Institute.

## Diver Callaghan makes nationals

BY MYFANWY CALLAHAN

On Feb. 9th during a conference held at UCSD, Elizabeth Callaghan made nationals in the NCAA third division diving competition. She is the only diver from our local division (Southern California Inter-Collegiate Athletic Conference) and one of only three students in the L.A. division to meet the requirements. Liz obtained two qualifying scores each in the one meter and three meter competition, allowing her to compete on either board.

On March 10th she will fly to the national competition to test her skill against that of 40 to 60 other students from across the nation in the third division. This division includes only those schools which do not offer any scholarships to lure divers. Another qualifying competition will eliminate half of those who made it to nationals. The remainder will continue to dive throughout the week.

This is the first time that Elizabeth has gone to nationals, but she has been diving for eight years. She dove throughout high school in her home town of Minneapolis for the com-



TECH ARCHIVES

Elizabeth Callahan, champion diver, soars through the air.

bined St. Anthony and Spring Lake Park teams. Although she began diving on the one meter and three meter springboards and the five meter platform, she chose to continue only on the springboards to prevent injury.

She has been diving with the Caltech team since she arrived here two years ago. Currently she swims ten months of the year, and takes

a break to avoid overly straining her shoulders. Most weekends during the term she is competing in events throughout the Southern California region.

It has been a full seven years since a Caltech swimmer went to nationals and Caltech hasn't had a diver proceed to nationals in seventeen years. We all wish her the best of luck!

## Michael Dukakis to lecture at Caltech

BY CALTECH MEDIA RELATIONS

PASADENA — Michael Dukakis, the 1988 Democratic presidential candidate, will lecture at 3 p.m. Tuesday, March 4, at the California Institute of Technology. The event is free, and the media are invited to attend.

Dukakis rose to national prominence in the mid-1980s after engineering the "Massachusetts Miracle" as governor of the state. After three terms in office, he won the Democratic nomination to become his party's standard-bearer in the 1988 presidential election.

For many years Dukakis has balanced his interests between politics and academics, and has taught at Harvard Univer-

sity as well as Northeastern University in Boston, the University of Hawaii, and UCLA. His academic research has focused on national health care policy reform and the lessons national policy makers can learn from state reform efforts.

Dukakis has written articles on national policy for the New England Journal of Medicine, the Yale Law and Policy Review, the Journal of American Health Policy and Compensation and Benefits Management.

The title of his Caltech lecture is "Politics and Public Policy." The event will take place in the Beckman Institute Auditorium. For more information or directions, please contact Caltech Media Relations.

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## LETTERS TO THE EDITOR

Some Random  
ASCIT Flame

## DISCLAIMER:

I was quite offended by last week's Tech article titled "ASCIT elects apathy." Indeed, my immediate reaction was to write the following article, in which I both respond to the ridiculous inaccuracies presented in that article and attempt to clarify the student body (and Caltech as a whole) exactly what ASCIT does.

This is not meant as a personal attack, nor as a sermon. I simply see the need, after reading that article, to explain my personal views on ASCIT. I've served two years on the BOD, and thus I feel warranted in writing this piece. However, it does harshly flame the material presented in last week's Tech article, as well as the inexperience of the author of that article.

Again, such inexperience (or ignorance) is not the fault of the author, but rather the fault of ASCIT's lack (during my year as president) of communication with the campus. Oh well. Hope you enjoy, and take this with a grain of salt. Remember—experience does not imply infallibility in any circumstance.

Why should we have a student government? Student government acts as a central organization to represent the students to the administration (policy), the alumni (money, support, and tradition), and the outside world (Pasadena, other schools, etc.).

Does it matter how effective student government is in representing the students? Yes.

I seem to recall reading an article by a freshman last week that mentioned that "Caltech has shown a declined interest in the workings of ASCIT."

Declined. Hmm. Cute frosh, you've been here a WHOLE TERM, and you're talking about the "decline of interest." Perhaps next you should offer your views on the evolution of man. Well... (it's too easy).

To "rectify" your point, as that's what I think should be done with it, face facts: the average person cares less about ASCIT than about his or her house because he/she seems to get more (at least in tangible social events and interaction) out of their house government.

Does this mean ASCIT is useless? Well, if you don't want to support the only organization whose stated purpose is to relay student concerns to the administration and faculty (and vice-versa), put out the yearbook and the little t, continue paying about \$1000 a year for Friday morning donuts, act as a centralized source of student funding of student clubs — we used to have this VAN, too... (I'm not bitter. I'm smiling. Through clenched teeth.) — etc., then be my guest.

If you think Caltech would be a better place without any of these things, then I'm going to offer my humble opinion that you're f\*\*\*ing wrong.

If you don't want to run for office and would rather watch the BOC critically fumble one year and fail, or watch the yearbook fall thousands of dollars into debt and be unable to print, or watch tradition die due to lack of communication with those people in the administration and faculty and alumni who support us... Hopefully, you

get my drift.

The only times I remember hearing from students interested in ASCIT were when ASCIT screwed up or was screwed over. Why?

Students take things for granted. If we all woke up one noon, and the showers didn't work, then 85% of the undergraduates would immediately grow very angry.

Well, what if ASCIT fell? Personally, I'd like to see ASCIT fall eventually, since the loss of every service ASCIT provides would really piss people off. Students need a centralized government to run all these "little shit jobs" (like the yearbook, the copier, event funding, and the pre-frosh party) that nobody else can take under their wing.

If you don't care how poorly your money's being spent, then don't run for government, don't vote, and watch it die. I heard (and was heard along with) some seniors complaining about lack of space. Well, what if we suffered from lack of yearbook?

Why don't people run for office? Schoolwork and hanging around (or computer games) take up too much of their free time, and "ASCIT has no power".

Well, I just listed a bunch of things ASCIT does. There's also an upcoming student/faculty conference, the weekly minutes (go Kara!), the copier, the pre-frosh party, the Halloween party (can someone on this campus hire a good DJ? Guess not.), the Formal, the Clue, the UROH, the Totem, part of the Tech (the good part =), event funding, and multihouse funding.

The president should spend about 10% of his total time talking to students, faculty, and staff about concerns and issues facing the students. The BOC chair spends much more time ensuring that the honor system is enforced effectively. Members of ASCIT are also often asked to serve on committees on campus issues (alcohol, the honor code).

I just got to say on my personal statements to grad schools that I was the representative of my EVERY UNDERGRADUATE AT CALTECH TO EVERYONE ELSE IN THE WORLD. And I was. Scary.

If you only want one person to run and you think he's competent, then I see no problem with you voting him into office. Same for all the other positions.

I seem to remember this same article mentioning that "either we are a very apathetic student body, or (ASCIT doesn't influence us enough for us to care who leads it)." Ever occur to you that both might be right? Naah. With the amount of thought that went into your article, I assume it didn't.

I also read, in that vomit on the Tech's pages last week, about the "poor" voter turnout in ASCIT's last election. Ever look at the percentage of people who vote nationally? ASCIT does pretty well.

"But the houses have such contested elections." Yes. And the houses also affect people more than ASCIT does. Plus, house elections are really good popularity contests.

What does election to an ASCIT position give you? Grief from every undergraduate, faculty member, and administrative official.

Think it's fun? Well, I liked it, but I'm pretty strange. Most nor-

mal people (at Tech? Right.) should run for house election — it's less of a time commitment, more people recognize your work, and it's just as good of a resume filler.

But behind all this, the question remains: if ASCIT really only does this stuff, why don't we let this stuff get done by other organizations?

What if we let the IHC take on all the things that ASCIT does? If you want to dump that on your house president, be my guest, you soulless bastard.

Unlike some people, I don't consider flaming the IHC to be a good idea — they do a good job in what limited activities they do. These activities are not limited due to any apathy on their part; they're simply activities that the house presidents should see to.

We need a centralized student organization to perform these other tasks, and ASCIT has managed to do it for a few years without dumping on to the students the heavy hand of authority and power-tripping that you see at most other universities.

If you have a problem with it, that's fine. Tell that problem to an ASCIT officer (who, currently, can be found belonging to every house except Page, and not due to a lack of qualified people in Page, but merely a lack of interest, and of course, the waiters). But if you mindlessly rant and get yourself angry at the system, you've accomplished nothing.

Bureaucracy is supposed to help people, not frustrate them, and if you really want things to change for the better, talk to people. It can't hurt.

Back to the flame:

This same article also noted that "ASCIT runs rotation." Last year, I was asked by a senior, "How long have you been IHC chair? Or is it Caltech president?" Yeah. Well, I think I'll accord you just as much respect as I accorded him. Yup. This year, running rotation just really wiped me out. And I guess Dave Bacon did some stuff, too.

And now for some information:

If you think the administration is "out to get us" and "to kill tradition" as I've heard about a thousand times...

I'd like to clarify something.

If the administration really wanted to kill all tradition on campus and implement every policy designed to hamper student life, they could. They could keep our campus dry (with respect to alcohol), wet (with respect to fire), and crack down on any house tradition that they believed might incur liability. They could then argue that they were following the example of policies passed at other colleges to the media, effectively ruining any organized student protest.

Of course, the faculty might support the students, but then again, they might not. There's no real way to be sure until it happens.

My point is that the administration hasn't done this (yet) (well, OPI...).

If you were in their position, and you felt yourself liable for something some student did because he felt self-righteous or simply had no morals to speak of, what would you do?

One step farther: if you were liable if somebody got drunk and seriously injured himself or others, what would you do?

Now chew on the current policies regarding campus life, and maybe if you feel ambitious, check out some at other universities. If

you feel that we, the "cream of the crop", deserve better, check out our outward behavior toward the world — specifically, the ridiculous crap (such as this) people read in the Tech (which is the primary source of knowledge for many members of the faculty and a few members of the administration about student attitudes), and the stupid things Techers have this great tendency to do every few years (like driving the van over freeways in danger of collapse because of the earthquake) (stupid, but fun, I should say), and tell me again why the administration should be assured that we deserve better.

If you still rightly think that the administration wants to reduce its liability, think of what happens if the students have no organized front with which to speak to them.

What if the IHC and ASCIT do nothing but engage in petty war over high-schoolish power trips? What if you elect a bunch of premeds who need an ASCIT position for their resume? What if a nincompoop runs, and you don't vote? This happens nationally all the time, but on the campus scale, it just much more directly affects your life. No biggie.

The rest of this article is dedicated entirely to flaming the ignorant and obnoxious piece of garbage I read in last week's Tech. The content portion of this article will now become zero. As many Techers practice self-gratification in print, I thought I'd have my fun. If you'd like to be entertained, read on.

What was so wrong with the article?

"[One] of these days, NO might actually win [an ASCIT election]." Well, you twit, if NO wins, it means the people who ran for office weren't good enough to hold the position. And if NO really wins because those people who think it's amusing to vote NO outnumbered everyone else, then (from having counted more elections than any current undergraduate at Caltech) the actual candidates probably didn't have much support behind them. This is the whole purpose of NO. And hey, NO did win a few years ago (for some class secretary/treasurer).

"What, for instance, does the upperclass director do?" Why don't you pick up your f\*\*\*ing little t and find out? (like, in the By-laws...)

"Are [the people who run ASCIT] a place to take our grievances about Caltech?" Naaaah. We're just decorative, and come in many flavors.

"Are [the people who run ASCIT] there to make the Administration's work easier?" You total flaming idiot. Please put some conscious thought into your questions before they're asked, okay?

"The answers to these sorts of questions are something Caltech needs to answer to the student body." (score one for grammar) No, unfortunately, you're one of the few obnoxious ignoramus who makes our jobs so pleasant. I'm answering your questions, but in the future, could you beat your head against a wall, or a rock, instead of asking the sort of mindless questions that ignorant saps seem able to spout on command? Thanks.

I've run out of air. Oh well. If you ever read a statement derailing some organization through the use of poorly written, non-clever fluff, you've probably picked up a State senate campaign flier. But if you read such trash in the Tech, write an educated, tactful response. It's

not as fun as what I did, but hey, you're at Tech — why should you have fun?

Finally, if you feel that I haven't addressed what ASCIT presently does, then read the minutes. They'll be good. Pay attention, and maybe, just maybe, you'll get educated. Or, at the very least, entertained. And if you rail about campus morale, smile at people. There's not enough of that on this campus. And, if you just woke up and haven't shaved in days, you can actually get people to recoil. It's fun.

P.S. For those other fifteen percent — you disgust me, and everyone else. It should be legal to haze people just to make them shower. But it isn't. Sigh.

DAVE RELYEA  
ASCIT PRESIDENT

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# Disgust with student-administration relations

BY ERIC BOGS

I am disgusted with the current attitude of the administration. Over the past year or so, I have seen countless abuses of the undergraduate members of the Caltech Community.

Before going into specifics, I would just like to express my general disappointment with the attitudes and actions of those involved. Without sounding pretentious, I feel the undergraduates at Tech are not only the brightest around, but are also more responsible and better behaved than those typically found at state universities and other institutes. Put another way, we don't do stupid things. We respect one another and we expect respect from the administration as well as from faculty. In the past, I feel there has always been a mutual level of respect. However, I feel that this respect is on a decline.

In my mind, this decline started around the time we lost the ASCIT van. I won't go into the details, since I am not 100% sure of the facts. However, I can sum up the story as follows: everyone (including the administration) felt that students were insured through Motor Pool for the van. An accident occurred, and we discovered we were not insured. ASCIT (i.e. the student body) owns the van, and it was thought that CIT had donated

the insurance to us (since they are so large, they can bypass the usual insurance agencies and insure vehicles themselves). In response to the absence of insurance, the (former) Dean took away the keys to the van that we own. Most assumed this was a temporary measure. However, here we are, nearly a year later? still no van, still no remedy. In fact, in the past week, the ASCIT van has left its parking space behind Jorgensen, and its whereabouts are unknown to those I've asked. Decline in respect and trust.

The Honor Code is something we hold dear. Recently, I've heard disturbing things regarding the Honor Code. I've heard rumors of professors, a "prominent" one in particular, who wish to do away with the Honor Code, regarding it as a way for us to cheat one another and an overall inconvenience (to him). I've heard thoughtless threats from professors such as "missing lecture is a violation of the Honor Code" or, from security, "going into the tunnels is a violation of the Honor Code." How can we be expected to tolerate such mockeries of the Honor Code? Decline in respect and trust.

If there is one thing that we as a student body can agree upon, it's that academic life at Tech is difficult. Rigorous. Taxing. Classes are stressful for

most people most of the time. Non-academic activities at Tech, such as traditions and parties, are a must.

It seems that Residence Life feels that we cannot responsibly control our actions, that we are incapable of making intelligent decisions for ourselves. I'm referring to the tighter enforcement of the alcohol policy that is being imposed on us. Why? What events have caused this? There has been little information

*It seems that Residence Life feels that we cannot responsibly control our actions, that we are incapable of making intelligent decisions for ourselves.*

given to students regarding the tighter sanctions.

I can picture Kim West arguing "drinking is a problem" or even "alcoholism is a problem." Does Res Life think that serving drinks during the ONE night of parties this term will cause alcoholism? If anything, Techers look to parties as a release from all the hustle and bustle of day-to-day life. I feel

that there is little to no alcohol abuse, and I do not feel it is a problem at Tech.

More importantly, I feel that there is nothing the administration or Res Life can do to avoid the minor amounts of alcohol consumption that occur. Mature adults can make their own decisions (be they wise or unwise), and deal with their choices. I feel the FIPSE Core Survey Results of 1994 (<http://www.caltech.edu/~counseling/report/>) back up my claim that there isn't a significant problem, especially when one compares Caltech's alcohol usage to the national average.

In addition, the Res Life Office now restricts the traditional bonfires in some of the South Houses. A friend of mine in Ricketts claims that "no injuries from fireballs have ever been sustained." Is the Institute so worried about liability that they must impose these unfair restrictions with no precedent whatsoever? Fires are an interesting and necessary facet of South House culture.

What's next? What if, while banging on the tables at dinner (as we uncultured, uncivilized barbarians do), a steak knife flies across the room and stabs a student in the eye? What if a student is crushed in the automatic bookshelves of Sherman Fairchild? I can come up with

dozens of "what if?" scenarios. I'm frightened what might happen if the administration seriously goes through this same line of reasoning. Decline in respect and trust.

It is fortunate that the seven houses seem to be getting along better than ever, but at the same time I see more and more resentment and misunderstanding between the administration, faculty and students. Some undergrads feel that the administration is in fact scared of the Hovse system. Although it may not meet their high expectations for how "proper" students should live, for most of us, the Houses are a necessary component of Tech life, and we would have it no other way.

Despite what the administration may think, we all do not want to live in Avery; I respect those who choose to live there, the administration should respect those who choose not to. There are many problems and misunderstandings between "us" and "them" which affect our lives on a daily basis. I think it's time for Caltech to renew its sense of community. Am I correct in assuming that the purpose of the Residence Life Office and the administration as a whole are to serve our best interests, academic and otherwise? Perhaps it's time for everyone to make their intentions a bit more clear.



"ONE FLAME A WEEK - MY PROMISE TO YOU."

BY AUSTIN COLLINS

## Gender and Standards

Last week, I read a newspaper article on yet another scandal involving the United States Army and charges of sexual harassment. I'd not paid too much attention to it until then. See, this article stressed the fact that one of the Army's officers was not suspended the instant he was accused.

That was all the article was about. That was the scandal. The man was not removed from his job simply because he was accused. In and of itself, this wouldn't warrant a spot here in the Tech. However, the article also reported that it is the **standard procedure** in the Army to remove someone from command the instant they are accused.

No preliminary investigation, not even a cursory review of the evidence. A complaint is filed, and the man is suspended. Boom. Over 50% of the time, the article claimed, these reports turn out to

be unsubstantiated. Hardly a shock.

Imagine the power...that mean old drill sergeant makes you do so many push-ups and calls you rude names. Heck, you don't have to deal with that. Simply complain that he was harassing you — that always is bad for an officer's career. Maybe the next one will be wiser and not push his female cadets too hard.

This is not to say that all harassment complaints are unfounded, or that sexual harassment is not a serious problem. What this means is that saying a female cadet has a fat behind is now enough to have your job taken from you. Imagine this: in the middle of a training exercise a cadet stops running and falls to the ground weeping. The drill instructor's response: "You! Get up off your fat behind and run! Move!"

If the cadet is male, he has to get up and run. If the cadet is female, she can have the drill instructor suspended. Of course, if the cadet had done that in combat, someone would have died for it but hey

— this is only the Army.

This is the heart of my problem. A female cadet simply does not have to tolerate the same treatment a male cadet does. She can file charges and have the offender removed. Of course, drill sergeants are supposed to be offensive, but it's not like combat is offensive. Combat is a perfectly gentle and PC environment, where women have the same right to be as men.

I agree with the latter part of that statement — women do have the same right to be in combat as men. As a matter of fact, I applaud the way that women have fought to serve in all ranks of the United States Armed Forces. They are brave individuals, and I'm proud of what they've done for this country.

What I disagree with are the women who sue to have the standards reduced. One group of women fought to gain entrance to Annapolis; another group fought for lower physical standards. Why is it a male Navy recruit must be able to do a minimum number of pull ups, while a female Navy recruit is not required to be able to do even a single pull up?

Perhaps, as the woman who sued the LAPD (and won) to have "the wall" removed as part of the training course would maintain, it is a biased measure of upper body strength. Males have more upper body strength than females, so the test is inherently gender biased.

Someone remind the next criminal that escapes from this police officer by climbing a wall that he is being discriminatory. It's not fair that he can climb over that wall but she can't, so he really ought try another means of escaping.

Again, this is a not a slander of female cops. The brave women who were suited for such duties simply shut up and climbed that wall. Some had to try a few years in a row, and weight lift, and train specifically for the wall but they did it. They beat the wall.

This other woman simply called her lawyer.

Women have the same right to fight in combat as men, we've been told. Women can perform in combat just as well as men, we've been told. Then why is it that in the Army, Navy, Air Force, police departments, or any other armed branch of government that they are not required to run as far or lift as much?

That infantry unit trying to storm that hill needs people that are in shape. That tank unit needs soldiers that can easily heft a 60 lb tank shell. That police department needs cops who can climb over a wall to catch a suspect.

There are women capable of all of these things — and they belong on the battlefield or on the streets. There are many who do not, however. In setting basic physical standards, a measure of what needs to be done is established. These standards should be the same, regardless of gender. After all, if a woman and a man both have the same time on their mile run, they should either both pass that section of the test or both fail. As it currently is, however, males are required to run faster.

I'm reminded of my High School days, when a woman tried out for the football team. She failed the strength test by 115 lbs (you had to be able to bench press a minimum of 185 pounds — Jackie

Joyner Kersie only benches 155). She failed the mile run (by 72 seconds). She failed the hundred meter dash part of the test (by over two seconds). So, the coaches cut her from the team.

She evidently didn't fail her civics class, as she immediately sued. Of course, she won. So the school was forced to put her on the team even though she was slower, weaker, and in worse shape than all other 34 people on that football team. Feminists in the area lauded it as a triumph over sexism.

This disturbs me, too. By calling all of these litigation happy women heroes takes away from the accomplishments of those women who truly do advance the cause of women's rights. By lauding silly triumphs such as this woman's suit to play football, women's rights efforts lose far more than they gain.

This woman's playing football was an embarrassment, it turns out. After she sued the coaches to let her on the team, she threatened to sue them if she didn't play. So, they put her in one game. She was knocked down, and had to be carried off the field, crying. She'd had the wind knocked out of her.

Gender bias is a stupid thing, and has no place in our society. It should not be tolerated, and should be punished when it is found. Right now, it is found in the military in the form of gender specific entrance requirements. Hypocrisy, anyone?

It really is that simple.

"Cyrano: So, this is your revenge?"

Compte de Guiche: Take it to mean I serve my King, and vent my spleen." -Rostand

# The Outside World

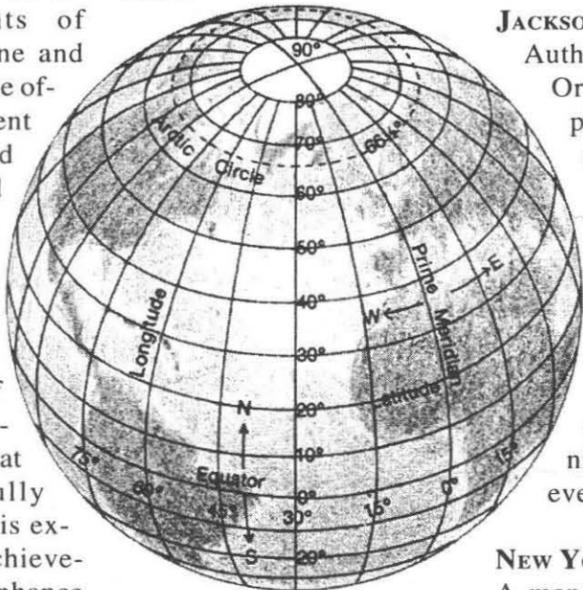
BY MYFANWY CALLAHAN

**HIZMEH, WEST BANK—** Three undercover Israeli soldiers shot and beat Palestinian residents of Hizmeh, killing one and wounding three. The official Army statement says that the squad was first attacked by residents and responded with fire.

**MIDLOTHIAN, SCOTLAND—** Dr. Ian Wilmut of Edinborough announced Monday that he had successfully cloned a sheep. It is expected that this achievement will greatly enhance animal husbandry and medicine.

**MOSCOW, RUSSIA—** Russian and Chechen authorities agreed to search for 1500 missing Russian soldiers and civilians to-

gether. Meanwhile, Chechen refugees begin their return home.



oting against Chinese rule.

**JACKSONVILLE, FL—** Authorities charged an Orthodox Jew with planting a bomb at a synagogue hours before Shimon Peres, former Prime Minister of Israel, was scheduled to speak there. The bomb did not go off and was found nine days after the event.

**NEW YORK, NY—** A man with a semiautomatic handgun opened fire on tourists on the 86th floor observation deck of the Empire State Building. He shot eight tourists (killing one) before turning the gun on himself.

**URUMQI, CHINA—** Bombs exploded on buses in the capital of China's westernmost province, Xinjiang, wounding over 21 people. Earlier this month Muslim separatists were ri-

# Pahoehoe Diary

## Day 3: Why I Hate Cameras

BY JOE TRELA

It's Saturday! Time for a late breakfast and Saturday morning cartoons and...oh yeah, we're camped out on top of a live volcano and it's surprisingly cold for Hawaii (Maybe being at 3,000 feet had something to do with it). Still, chin up! We headed out on our first extended hike, into the crater of Kilauea Iki (Little Kilauea). And, in order to make much sense from here on out I have to delve a little bit into the geological nature of the islands.

Current theories of the formation of the Hawaiian Islands point to a giant plume of material emerging from either the lower mantle or the core as the prime mover. The plume eats away at the basaltic Pacific Plate, creating an undersea volcano (or possibly several). This volcano builds itself up through repeated eruptions until eventually it breaks the surface of the sea as a new island (Incidentally, the activity at Yellowstone National Park is believed to be caused by a plume underneath the North American Plate).

However, the plate itself is moving relative to the earth's lower layers; as it moves, the first volcano or volcanoes are deprived of their heat source. The volcanism changes from the near-constant "theolitic" type to a much spottier "alkalic" type. This spotty volcanism is no longer able to counteract the effects of erosion and isostasy (the gradual sinking of the island), and the topography inevitably lowers. Meanwhile, a second volcano group develops further along, and after several iterations you have an island chain. The Hawaiian Islands can be traced back to the northeast from the Big Island, and as you move further and further away the islands get older and lower until you reach Midway Island, which consists mainly of coral and barely tops sea level. At that point, if you turn northward you can trace the Emperor Seamount Chain all the way to Siberia; the seamounts are islands have completely disappeared beneath the waves. In addition, an "immature" undersea volcano, Loihi, has been found to the southeast of the Big Island; eventually, it will become the next island in the Hawaiian chain.

The point I intend to make  
SEE PAHOEHOE ON PAGE 5

# Wittenstein Presents "Multiple Futures"

BY RON DOLLETE

Alyce Wittenstein was on hand Saturday night to present three short films strung together to form a feature length piece called "Multiple Futures." As the title suggests, the three short films depict three different perspectives on an imperfect and paranoid (maybe perfectly paranoid) future.

The first short film, "Betaville" is subtitled, "A Post-Modern Nightmare." The film itself is a parody of "Alphaville" by Godard and is presented with a film noir style mixed with *A Clockwork Orange* and it follows the exploits of a detective named Coman Getme who lives in Betaville, a city that he calls home but is slowly becoming alienated from. Let's just say that there's a scene where the detective is assaulted by a group he describes as "nouveau homo."

In the next film, "No Such Thing As Gravity," Wittenstein uses a lot of dialogue to establish a 40 in the morning. It is heavy contrast to the previous film, because of the tight structure and dialogue. This film and "The Deflowering" both represent a 1984-esque future where the government is not in control, but rather corporations. In "Gravity," Wittenstein also em-

ploys black-and-white to contrast a color utopia on the planet Nova Terra.

"The Deflowering" is similar except a biological research institute, known as the Huxley Biotech (can you say, "Brave New World?"), is has perfected genetic engineering to the point that children can be tailor made immune to all diseases. However, the one side effect is a deadly allergic reaction to pollen as well as a new disease called TIB (Total Immunity Breakdown). Everybody is forced to wear full body condoms to protect themselves and skin-to-skin contact is essentially unheard of. As with Ray Bradbury's "Fahrenheit 451," the protagonist has a strong conviction to "return to nature" in defiance of Huxley and the genetic engineers..

After the triple feature, Wittenstein discussed her experiences in making these films as well as presenting them all over the world, from San Francisco to Sweden to Japan. Some topics she covered included asshole actors (or even worse, asshole cameramen) and the respectability that the sci-fi genre lacks. Wittenstein is currently a student at the City University of New York studying civil rights law, but still has aspirations in filmmaking.



BY BRADEY HONSIINGER

The Caltech Y has a wide range of events coming up in the next week, so pay attention. If you'd like more information on any of them, or you have your own ideas about what would be cool for the Y to do, stop by anytime and talk to Chris. You can also stop by the Y's Student

Excomm meetings every Monday at noon.

There's a Caltech Y Noon Concert at today in the Winnett Quad. Bring your lunch and listen to funky funky jazzy jazzy music by Micky Champion. There will be a Mini-Y Hike tomorrow - if you'd like to escape urban Los Angeles for a few hours, stop by the Y this afternoon and sign up.

Next Wednesday, March 5, the Caltech Y and the Women's Center will be showing the film "Maya Lin: A Strong Clear Vision" in Dabney Hall. "Maya Lin" is an Academy Award winning documentary of the mak-

ing of the Vietnam Veterans Memorial. Its director, Frieda Lee Mock, will be available for a question-and-answer session following the film. Come over for a couple of hours and broaden your mind.

The Y is sponsoring a special trip to the Museum of Tolerance next Saturday, March 8, from 4 to 7pm.

The Simon Wiesenthal Center's Museum of Tolerance is a high tech, hands-on experiential museum that focuses on two themes through unique interactive exhibits: the dynamics of racism and prejudice in America, and the history of the Holocaust - the ultimate example of man's inhumanity to man. This is something that everyone should see, so stop by the Y to sign up. The cost is only \$5 for students.

We're also planning our first-ever Caltech Y Saturday Night Music Festival next Saturday, March 8. The band list includes some of the hottest up-and-coming bands in L.A., so watch for the flyers going up next week.

Finally, the Alternative Spring Break planning is rolling along. If you'd like to sign up for one of the remaining spots, stop by the Y and talk to Chris or Sue.

That's it.

As always, if you're interested in any of the Y's volunteer programs (such as delivering food to house-bound AIDS patients, serving food to the homeless, or tutoring at-risk students), come by the Y and talk to Chris. You can phone him at x6163 or email him at [sundbergc@starbase1](mailto:sundbergc@starbase1).

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# Between work and sleep, is there time for love at Tech?

BY JEANETTE BUTLER,  
CALTECH COUNSELING CENTER

Being a student at Caltech is consuming. There's hardly enough time to do all the work that's on your plate, let alone socialize, exercise, participate in the community, pursue your interests and so on. Yet, despite all this, for most students there's a longing for a relationship, a special closeness, that one can share with another human being. This is the time in life when many men and women are

searching for intimacy - but like many wonderful things in life, it's not always easy to find.

Of course, the three to one ratio here doesn't help. Men have competition, plenty of frustration and often times a certain despair that no matter what they do, they're not going to succeed in attracting a woman of their choice. For women it's difficult because they often get more attention than they really want - or feel like their "friendliness" is misunderstood and seen as an invitation for more. Still, it hap-

pens that some fortunate ones meet and feel mutually attracted to one another. As they get to know one another, their feelings for each other may grow and they may find themselves wanting to spend increasing amounts of time together. They become emotionally involved.

The question then becomes, "How do I balance all this? How do I have time for my studies, my friendships, myself and still have quality time for my relationship?" In an environment like Caltech, there's not a lot of

support for relationships. What's valued is one's work, one's ability to become a dedicated scientist and produce results that will add to our fund of knowledge. To be in a relationship and a student at Caltech, one has to be thoughtful and creative. Time has to be managed in a conscious way.

How to manage all the demands on time is up to each person to decide. If the relationship is mutually supportive and loving, that's a precious thing. A good relationship requires honesty, respect, trust, good communication, and faith: faith that we will be able to talk about problems or differences in an open and caring way; faith that my partner will be there for me in times of trouble or pain; and faith that my partner will usually have my best interests at heart.

A good relationship also needs separateness and is more interesting and exciting when two people have their individuality, i.e. their own interests, aptitudes, talents, and friends - and are able to bring their worlds together to make a larger whole. Couples can grow away from one another in ways they never thought possible.

As rewarding as relationships can be, there are always challenges. Each person comes with his own personal history. Inevitably in a close relationship some of the hurts and losses of

our childhood resurface in our adult relationships. For example, the person who felt abandoned as a child may struggle with fears of abandonment in their adult relationship and cling

too tightly to avoid another painful loss. Or the person who as a child felt too engulfed or controlled may put too much distance between them and their partner for fear of being suffocated. A healthy relationship offers couples the opportunity to heal these and other childhood wounds. Being in a healthy relationship and being in school are opportunities for tremendous growth in life. It takes balancing, but it can provide one with emotional support that can ease the stress of being a student at Caltech, and make life more joyful.

If you are interested in finding out more about relationships while in school, the Caltech Counseling Center is sponsoring a program on relationships that will be held in the library at Avery House on Wednesday evening, March 12, 1997 from 8:00pm to 10:00pm. Please join us for a lively evening on a subject that is on the minds of many students.

Jacqueline Miles, Ph.D., Robert Richie, M.A., M.F.C.C. and Jeanette Butler, Ph.D. will be presenting. Rich Wolf, graduate student in Geology and Ruddock House R.A., will be the moderator.

*In an environment like Caltech, there's not a lot of support for relationships.*

## PAHOEHOE : Day Three

CONTINUED FROM PAGE 4

(yes, there is one) is that a shield volcano has a large magma chamber that occupies a great deal of its internal volume. As magma moves up, the chamber expands like a balloon and great rifts develop in the surface; these rifts are generally the sites of new lava flows. The periodic outbursts during the current thirteen-year eruption of Kilauea have actually come from several sites along these rifts, which trend southwest and east. The "Chain of Craters Road" follows the East Rift, and along it you can look at huge amounts of topographical change produced within the last forty years or so. There are lots of signs pointing out "the July 1974 flow" or that "this road is no longer passable" - it gives you a sense of history, or the lack thereof.

Our first hands-on volcanic experience came at Kilauea Iki, or "Little Kilauea", a few miles away from the camp. From the rim, we could see wisps of steam rising from the many fumaroles on the crater floor; Professor Sharp assured us that it was only rainwater that had percolated through the porous basalt to a hotter layer below ("It's been dormant since the sixties! Really!"). A winding path led through the thick foliage that covered the walls of the crater to the bottom; there were many interesting varieties of plants and ferns along the way. From there, we headed across a series of frothy pahoehoe rises that covered the crater floor to a brick-red hill about half a mile away. We passed close to several fumaroles and, sure enough, the gases were water vapor and didn't etch our faces at all. The hill turned out to be a huge hemispherical lava plug about 200 feet across that surrounded a deep cavern marking one of Kilauea Iki's eruptive vents. The bravest of the brave descended partway down the slope leading to the cavern, while those of us who could fly (that is, the local seagulls) gently landed at the the bottom. After

half an hour of such frolicking, we walked back across the crater and up the crater wall - where, as it turned out, someone must have turned up gravity because it was much less fun going up than down. By the time I had shaken the mud of Kilauea Iki from my boots, everyone else had gone through the Thurston Lava Tube several dozen times and were aching for those of us without gravity boots to get on with the program. The lava tubes, created when lava streams melted through earlier rock like warm Coke through an ice cube, were quite impressive; one could easily drive a Toyota Corolla through them if you airlifted one in (or a Ford Pinto, if one was just plain nuts). When I got bored with zooming through the tunnels, we piled into the minivans and set off to the famous "Volcano House" restaurant and inn...which we didn't get to enter just yet. Instead, we set out to the Park Visitor Center + Gift Shop next door and entrenched on the lawn.

After eating lunch, looking at some of the trinkets inside the gift shop and exchanging hostile glares with a feral pig diorama (they are apparently Numero Uno on the Artificially Introduced Bad-For-You Species Hit Parade), we set out for the largest crater of Kilauea, Halemaumau, which unfortunately lay on the other side of Kilauea Caldera. But naturally, we weren't going to let a little thing like a semi-active volcano get in our way, so we marched across gamely (truthfully, at this point we were all a little gamey anyway). After descending the fern-covered cliff that the path wound down the caldera wall, there was little sound but our own breathing and the crunch of pahoehoe ground to dust under the remorseless tread of our hiking boots. Not that we destroyed any important structures; the caldera floor did a pretty good impression of a flat moonscape and the oldest flow, which only dated to 1885, looked pretty much like the youngest ones

from 1982. As a matter of fact, one lava rampart looked so much like the next that it would have been pretty easy to get lost if there weren't cairn of cobbles every few hundred yards or so to show us the True Path.

However, there were a few plants growing in some of the older lava flows. These added color to the drab landscape of pahoehoe and low-lying clouds, and of these "colonizing" shrubs the most famous are the ohela berries. Traditionally, these plants are the physical embodiment of one of Pele's sisters, and they were held sacred to her. They also hold bright red berries that are good eating, but whenever you pick any you have to be sure to throw some a few of the best behind your shoulder and offer thanks to Pele. Otherwise...well, let's just say I wasn't about to test it. They were good eating, though, kind of like raspberries. And right after the berries, Pele saw fit to bless me with a perfect spot for a senior picture, Picture, if you will, a high lava rampart, with me in front of it holding a bar of Lava soap. Witty and topical!! But my cheap camera jammed at or before this point, so alas, the only pictures that came back from Hawaii give a view of the state heavily biased toward airports.

Finally, we arrived at Halemaumau Crater more or less intact

When we returned to camp, we were tired but fulfilled, nearly bursting with wholesome geological goodness. And then, who showed up but our old buddy Lazlo \*\*\*\*\* (all the vowels are silent), once a graduate student involved with various Mars rover prototypes here at Caltech but now a park ranger interfering with the rights of tourists to make a mess out of their own national park. He offered to show us a great sushi place that night (all right) and take us all to an active lava ridge the next day (come again?)

Hamaumau Crater ohela berries



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# A.S.C.I.T. Minutes

FEBRUARY 20, 1996

Scene of Crime: SAC 64  
Evidence: A. ASCIT Copier; B. Personnel Directory  
Suspects: Kohl, a.k.a. president; John, a.k.a. treasurer; Mike, a.k.a. Director for Academic Affairs; Lori, a.k.a. IHC chair; Kiran, a.k.a. Upperclass Director-At-Large; Baldeep, a.k.a. Freshman Director-At-Large; Kara, a.k.a. TheCoolOne, Secretary

Witnesses: A: Jonathan McDunn, a.k.a. el ex presidente; B: Kristie a.k.a. notquitegonetreasurer

Crime Report: The suspects were reported seen collected at the scene between the hours of 22:09 and 23:09. Conversation

was overheard by the Witnesses as follows:  
Kohl: Reviews the way things will pan out Baldeep: Questions procedural guidelines for the third term Budget Meeting. At this time witness A informs Baldeep of method of contacting graduate students for better proliferation of meeting time and place. Witness B, well informed of the plan from previous exposure notifies suspect of methods to minimize lack of attendance at aforementioned event. Whispers of advertisement in the Tech and GSC Plus are heard.

Attention now focuses on Kiran, whose role in the crime is rumored to have something to do with the ASCIT Copier (see evidence A). Students desiring association with the said piece of evidence can follow terms stated by copier, or for more information contact the suspect via email (kshekar@cco). Suspect denies direct association with upkeep of evidence, as upkeep is done by the Graphics

Arts Facility. Rumors confirm he is just the middle man. Possibility of card swipe system (like Fairchild Library) for payment will be looked into.

Mike: Speaks of event referred to as Student Faculty Conference, committees have all begun meeting.

Witnesses confirm sighting Dave Relyea, a.k.a. formerbigcheese at 22:25. Rumors confirm that leadership of the clan from the last 4 years are present at scene of crime.

Keys to the scene still at large are discussed.

Suspect called Lori is confirmed as a new recruit into the "ASCIT" gang. Witnesses say was "sworn" into the group via top secret hand waving technique. Greeting of "HI" is heard. Determination of the significance will follow as nothing could be obtained from witnesses.

John: Confirmed by witnesses as the financial man in the gang talks about obtaining outside assistance for future endeavors in the person of "the bookkeeper".

TheCoolOne previously seen keeping records speaks: Accessibility of BoD members via phone is discussed, standard extensions will likely be used and can be obtained in the Personnel Directory (Evidence B). Witnesses confirm that money is exchanged as compensation for endeavor referred to as UROH.

Witness B is frightened away by Kohl. Diehard Witness A remains to tell rest of account. Kohl mentions the issue of whether nonundergrads can be ASCIT members. The gang influence apparently is much larger than previously suspected. Bylaws should be clarified by ASCIT Excomm, which Kohl will form.

The ASCIT "gang" has been busted, Thursday at 10:00 is determined to be a bad time. Meetings will now occur Wednesdays at 11:00 PM

You as a good citizen are encouraged to attend as the more witnesses the better in confirming crimes committed.

End Crime Report.

FEBRUARY 27, 1996

Once upon a time in a far away unrealistic collegiate land called Tek there lived many people who studied very hard. This was a land unlike any other. There was a group of people, called the representatives, who traveled far into the depths of the landscape to a deep dark cave, SAC 64. On February 26, 1997, a meeting convened in this cave at precisely 11:07 and some odd seconds time of the night. The one lovingly called Kara by the group, secretary by the general citizens of Tek, as usual took a visual roll call. Her friends Kohl, Mike, Lori, John, Kiran, and Adrienne had accompanied her on this fine night. Brave souls from the rest of Tek and beyond into the darkness of the distant land called TheRealWorld also assembled. Kara was informed of the correct spelling of their names in order to record the grandness of their presence. Jeanne Wilson, Jon McDunn, and Dave Relyea were they. The one called Jeanne desired financial compensation for the hardworking Movie Squad, who took it upon themselves to entertain the people of Tek each week with a new movie. Much discussion ensued among the representatives regarding changes in the delivery of this entertainment to the general public. It was determined that a general decree for input would be Cried throughout the land by the newspaperpeople. It would go as follows:

ASCIT would like students input regarding a change in Movies. Rather than have a weekly movie (10 a term), have a movie every other week (5 a term) but have newer, more popular movies. Your opinion is greatly appreciated. Please email your input to kara@cco. Thank you.

And so it was decided that Publicity was a good thing. The head representative, Kohl's thundering voice was heard echoing through the SAC as he laid down the Law. Kiran, the copier overseer, informs the rep-

resentatives that they really do have an account on their own copier. He also desired that the common Tekkers know that the almighty graphics arts people only add accounts to the copier twice a term. John, usually a money man suggests a social gathering of the Tekkers sponsored by Adrienne and her grand Asket social budget. She approves urged on by the other representatives. Another decree will be proclaimed, those newspaperpeople will be busy.

ASCIT is sponsoring a new social event. Really Early Friday Morning ASCIT Donuts. The event will occur On Friday March 6th at 1:00 am in the RF Courtyard. Come one come all to eat and be merry. And yes, this is 7 hours before Friday Morning ASCIT donuts, which will occur as usual.

The elective one Mic has voyaged into the unknown depths of the SAC to visit. He is greeted with a round of congrats as Kara informs him she has appointed him to yet another term as ASCIT election chair. Congratulations on a job well done last year, keep it up. Mike informs all that New ARC reps should be picked by the houses of Tek soon. Lori adds that a signup for IHC secretary will go up on Winnett Wall on Friday February 28 to remain posted until the following Thursday. Involvement is encouraged, so sign up! John, now again concentrating on financial matters relays that the search for a bookkeeper continues.. A new day, and a closed meeting begin as Maria slips through the door at 12:00. The meeting reopens and Dave leaves, all are sad for a second or two. John will attempt to organize money flow of Askit so all can understand. Kara talks about contact between the general citizens and the representatives, and it is determined they will all have designated extensions to be found in the Personnel Directory. Freshly entered into the cave, Maria has news of other groups of powerful citizens. New BoC reps at large have been chosen, they go by the names of Brigitte Roth, and Leah Foechterle. The Great Leader Kohl now speaks. He and Lori met with Dr. Green regarding the Alcohol policy. The Askit representatives will meet with the Drug and Alcohol Policy Review Committee.

Maria has seen CARs, maybe it was Baldeep's. Hmmm. The brave souls then voyaged away from the depths of SAC 64 having met for long enough. The sun had not yet risen but it was 12:42.

And so my story ends. The moral being: "It is pretty darn late now so that is the end of the minutes..."

Fare thee well in thy endeavors,  
ASCIT Storyteller

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# Dean's Corner

## A Fair Day

by Jean-Paul Revel

the room coffee machine would provide. Of course we can also travel the day before. People coming in from the East on the other hand can leave at 6 PM, arrive by 9 PM our time, and the next morning, sleep a little late and have Brunch). Genial.

Actually Brunch by the time we had it had turned into breakfast and a bit greasy at that. But I am not here to talk about food again. I had a grand time at my table. To my right and left were representatives of a bank. I tried to discover why a banking Institution would want to recruit at Tech. Amazingly of the two reps I spoke one was trained in Physics at a prestigious eastern school and the other in engineering at a prestigious western one... What were they doing here disguised as bankers? It turns out that the analytical training is what makes Techers appealing. No they could not exactly tell me what they were doing but they clearly were having a ball doing it. Math and especially

their technical training seemed to be the cat's miaou, just what a financial institution needed. (How do you spell miaou? my Scrabble game refused mew, the other night; actually I think it cheats accepting for itself words it would certainly reject from its opponent. I guess that's a small price to pay to have an opponent always willing to play and who (which?) at appropriate intervals says in a deep somewhat lugubrious voice "Wow!" or "Well done!". The only problem is it says that even if the last play was for a measly 5 points, not necessarily for a superb 54).

Anyway the cat's noise of approval. Later, at lunch I walked through the tents and displays. Lots of students flocking to specially popular booths, resumes in hand, filling out forms, answering questions...I even saw some profs there, some earnestly discussing things with the representatives. Were they there competing for jobs? or where they only collecting pens and pencils, and were ashamed to just go there to help themselves to supplies without at

least a show of interest.

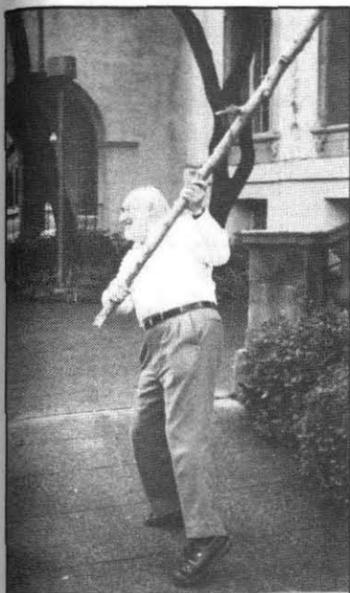
On my way over I saw a little kid walking on the path with his grandma and dragging a multihued slinky behind him. It was in soft colors, a little iridescent, quite a nice slinky. May be a bit too purple for my taste. When I got to the exhibits I discovered that the slinky actually came from one of the exhibitors and I had that flash of recognition along with amazement...Had I just seen the youngest Tech graduate ever? Just in case it would say something about my age I decided that even though they looked good I would not get a slinky, but restrict my predation to useful things instead. My approach to the freebies was much more direct than that used by the other Profs. (remember I told you some profs were doing the rounds, as I was). When I liked the looks of a pen, or whatnot, I just said "Excuse me can I have one of those?" I saw students there too, with bags, no resumes who were having a

ball collecting ball points and even a mouse pad. "I got two of them!!!". On hearing that, I went back and got one of them also. It is thin but actually a nice comfortable pad and my mouse seems to like it too, it does not slip and slide without revolving as it used too sometimes on the bare table top where I used it before. Perhaps I'll have to clean the mouse less often now.

So I hope your chase was as successful as mine and thanks to the Career Development Center for organizing the fair. I understand that we had a large increase in the number of "exhibitors" since last year and that reflects both their work and how much our graduates are appreciated.

So thanks to all and a bientôt,

*J.P. Revel*



The other day was Career Day it started prosaically with what was advertised as brunch, for the people who had come as representatives of their companies and a selection of Administrators, students and Alums to give a Caltech atmosphere to the table. When I read "brunch" I decided that the people in the Career development center who had organized this were brilliant. What a thoughtful gesture and a pointed reminder of the fate of us Westerners going to Mecca (Washington DC. or other points East of here. We Angelinos and the like have to take the red eye special arriving on the East Coast at about 6 am and still be ready by 8 to perform at whatever committee or meeting we have to attend. Hard to do. Sometime I have had the time to take a shower along with all the coffee that

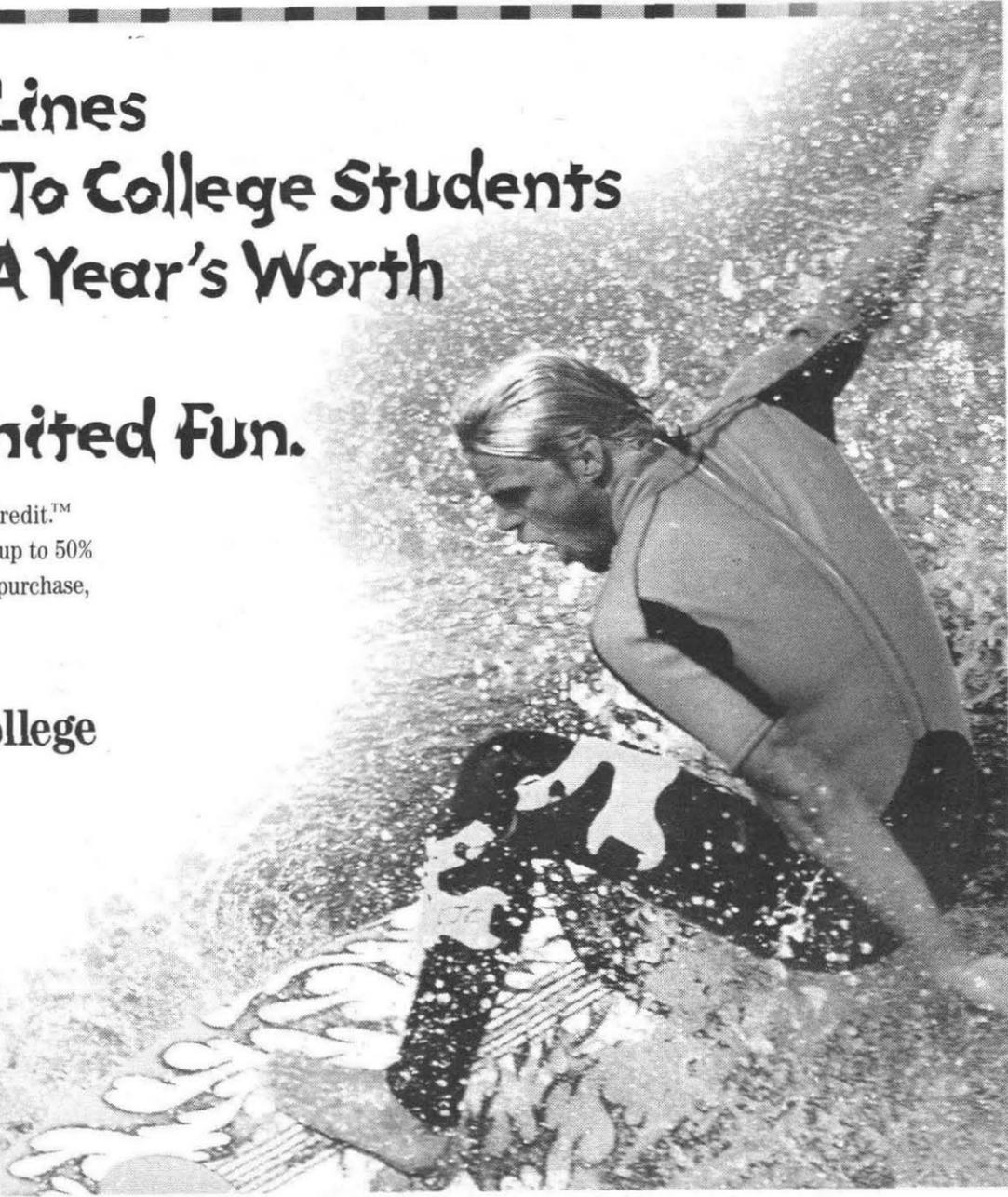
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# ADAM VILLANI: MEDIA GUY

BY ADAM VILLANI

## 39th Annual Grammy Awards

The Grammys were awarded Wednesday night at New York City's Madison Square Garden, offering their usual smattering of awards to critical favorites like Beck and The Smashing Pumpkins along with an abundance of awards to safe, inoffensive acts like 14-year-old country crooner LeAnn Rimes (OK, so she's offensive if you're a stickler for child labor laws) and Québécois chanteuse Celine Dion. The Grammy voters continued their tradition of trying to correct for past mistakes by awarding the Beatles and Eric Clapton for work that, although admittedly fine, is certainly inferior to their best work several decades ago. Unfortunately, doing so slights those who should be winning now, and the cycle will continue when today's best musicians win awards sometime in the 21st century. What's wrong with giving awards to the best music of the year, rather than flavors of the month or those past their prime who've "paid their dues?"

To be fair, the show's producers did a reasonable job of getting a variety of live performers. The evening's best moments were the tapdancing of the casts of *Bring in Da Noise Bring in Da Funk* and *Riverdance* and Beck's extra-cool performance of "Where it's At." The worst aspects of the night's show were mostly the fault of the scripted "witty banter" supplied to the host (Ellen DeGeneres) and presenters, but nothing topped the overlong caterwaul that was the medley of tunes from the "Waiting to Exhale" soundtrack for sheer channel-flipping impetus.

Early on in the broadcast, an announcer made the claim that the Grammys award all types of music. Not even counting that nearly all non-American types of music gets lumped into one "World Music" category, there are numerous types of music that have been around longer, have a larger following, have had more critical success, or have been more influential than some of the music honored by the Recording Academy. Reggae has an award, but Ska, the music that spawned it, has nothing. Country has numerous awards, and Bluegrass gets its own category, but Cajun, Zydeco, and Swamp Pop musicians have



nowhere to go. Polka, New Age, Hard Rock and historical artifact Metal have their own categories and Rap has three, but there are none for Punk, House, or any modern Techno or Dance music. Maybe if the Grammy gurus showed any sign of restraint in allotting award categories I wouldn't complain, but with 89 total awards given, including three for Spoken Word albums alone, you'd think they'd fill in some of the gaps.

## Lost Highway

This movie will blow your mind. At the end of this latest offering from David Lynch (*Blue Velvet*, "Twin Peaks,") my friend and I turned to each other and proclaimed that we had just witnessed the weirdest movie we'd ever seen. While not as visually bizarre as *Institute Benjamenta* or Lynch's *Eraserhead*, *Lost Highway* makes up for that in spades with its story and atmosphere. While trying to bend the events depicted in this movie into anything resembling a linear storyline is an exercise in brain cramping, a rudimentary outline follows. Bill Pullman (*Independence Day*) plays Fred Madison, a jazz musician who suspects his wife of infidelity and in due course ends up on death row for murdering her. In his jail cell, Fred mysteriously turns into Pete Dayton, a 24-year-old mechanic played by Balthazar Getty. Meanwhile Pete meets Alice (Patricia Arquette), the spitting image of Fred's dead wife. There's also a Mystery Man (Robert Blake) who doesn't seem to be constrained by such mundane things as space or time. The lighting in the first act of the film is the creepiest I've ever seen; characters seem to almost subliminally enter dark hallways. After much discussion, my friend and I began to figure out a few things about what was going on in the movie; if you're up for it, I'd love to discuss it with you, the reader, in person after you've seen the film.

## The Empire Strikes Back Special Edition

This episode of the *Star Wars* trilogy, which I saw six times in its initial 1980 release, remains my favorite of the series. The characters get more complex, the story gets darker, the acting gets better, but best of all is the sheer imagination put into creating the *Star Wars* universe. The Hoth ice battle scene is simply awesome, Yoda and Dagobah showcase Luke's finest moments, and the entire Cloud City sequence is both majestic and ominous. The "Special Edition" features of this one are less intrusive than in the first, and are more consistently welcome. By the way, The Special Edition of *Return of the Jedi* has apparently been pushed back a week to March 14th in order for more of you to see *Empire* first; I urge you to make good use of that time!

# TACIT thespians tackle tough theater

BY TANYA TICKEL

3:30 a.m. — The last doughnut (plain) sits in an open box at the base of the stairs. Onstage, somebody casts a longing glance at it, sighs, and turns back to his work. It is the Saturday before a performance, and all technical aspects of the Theater Arts at Caltech (TACIT) production of Tom Stoppard's *Dogg's Hamlet, Cahoot's Macbeth* must be in working order by Monday. The crew leaves shortly — but will return at 11:00 the next morning to prepare for the actors' 2:00 pm call.

*Dogg's Hamlet* begins this semi-

comedy with a largely slapstick introduction to the language "Dogg": Innocuous English words turn out to be hideous insults, but the Dogg-speaking students are still able to pull off a convincing English performance of Hamlet, and an incredible Dogg version of "Walk Like an Egyptian."

The second half, *Cahoot's Macbeth*, is a darker, nearly sinister play done as a tribute to playwright Pavel Kohout and his friends. The setting is an apartment in Czechoslovakia during the Soviet "normalization" of the 1920's. An abridged version of *Macbeth* serves as a political statement

about Lenin's bloody ascent to power, and interaction with an intrusive inspector ends in a small triumph of human ingenuity.

Before the students Abel, Baker, and Charlie, (undergraduates Daisy James, Phil Rodriguez, and Rowena Lohman) even appear on stage, the audience knows something is amiss when Rodriguez shouts, "Brick!" and a football soars across the stage. The students' antics introduce the audience to Dogg through the gross disappointment of getting a "hollyhock" sandwich for lunch, or the triumph of finally remembering a line for a play. The slices-of-

life portrayed so briefly set the scene for the flurry of costumes and swords that winds up as a five-minute Hamlet.

The second half of the play, *Cahoot's Macbeth*, tones down the good humor of the previous play. From the beginning, with the three witches wearing masks of purple faces frozen in horror, the mood is dimmed to a persistent tenseness. *Macbeth* itself is so elegantly done that the first instant that the Inspector interrupts is quite a rude shock. The inspector's cold meanness exceeds the cruelty of even Lady Macbeth, and the audience is brought, unwillingly, back to reality.

The plays in themselves are enjoyable, but when the one bright moment of clarity bursts out of the ca-

cophony of information soaring in pieces around the stage, the confusion is justified. At the same time triumphant at my discovery, and ashamed that I had not seen where everything had been leading earlier, I left Ramo Auditorium feeling fulfilled and intelligent.

TACIT's production of Dogg's *Hamlet, Cahoot's Macbeth* will play at Ramo Auditorium on Friday February 28 and Saturday March 1 at 8:00 pm, and on Sunday, March 2 at 2:00 pm. Undergraduates may still sign up for free tickets at the Dean's office, provided by Drs David and Judith Goodstein. Tickets are also available through the Caltech ticket office, x4652.

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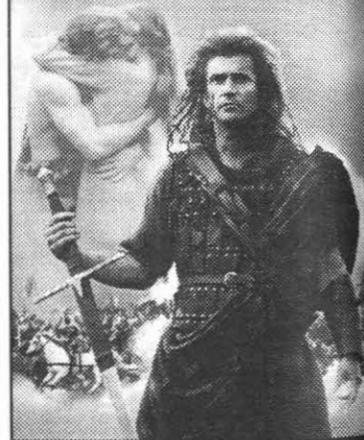
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# Caltech basketball more than a game

BY BEN BRANTLEY

We meet in front of Brown Gym: sixteen other California Institute of Technology basketball players, assistant coach Fred Newman, and me, sitting around shaking off classes and waiting to pile into two cars and a van for the last road trip of the year.

I spend the next hour in a futile attempt to sleep, but plenty of Coach Fred's oldies pounding through the vehicle's stereo ward off anything more than a light slumber.

The speed bumps on Whittier College's narrow roads jostle me to consciousness, and in the next few minutes I find myself sitting in a locker room with all of my teammates from the year, two coaches, and a video crew from CNN.

It is impossible to discuss this year's basketball season without bringing up the rash of media attention we seem to have attracted. A front page story in the *Los Angeles Times*, an up-and-coming article in *People* magazine, and now CNN.

"Distractions!" intones coach Gene Victor. Time and again, coach points at the gym door during practice and shouts, in the way only a good coach can, "The moment you walk in that door, you are ATHLETES!" Because we are.

And then one of the most precious moments of the entire season: twenty whole minutes before team warm-ups for each player to make a statement — to summarize his perspective of the team, to the team.

"I appreciate the chance to get away from academic life."

"We've all experienced a deepening of our characters."

"My life here would have been a lot worse without basket-

*"I appreciate the chance to get away from academic life."*

ball."

"... the best decision I ever made — to start playing."

"One thing it's taught me is confidence in myself."

To hear these words is magic to our ears. I can only imagine the pride the coaches feel from having taught and led and counseled us, and then to have it confirmed by their own students' words.

The game almost seems like it's going to be anticlimactic after our "chat," but it's not: we're

here to play, to finish out the season with just as much strength and determination as at the opening game.

Usually my seat at the officials' table is a cold one — there are few, if any, fans at our away games, and a hostile crowd is never a fun crowd. But this time it's different. This is a special game.

At least thirty fans are seated right behind me, and if I hadn't turned around to look at them, I would have guessed closer to one hundred just on noise level alone. Decker out with helmets made of basketballs, pompoms, huge signs (several of which blatantly scream out the fans' apparent allegiance to CNN), and face paint, they were truly a force to be reckoned with.

Caltech played very solidly the first half — at least, well enough to keep the score within one point (21-20) at half time.

Unfortunately, Whittier came out of its shooting slump and "shot the lights out" in the second half, as freshman guard Matt Musick accurately describes it. Shooting an impressive 9-for-18 behind the three-point line, the team clinched third place in the league with a 69-46 victory.

Starting senior and team

CONTINUED ON PAGE 10

# Basketball and the Media

BY RYAN COX AND ERIK STREED

The Caltech Men's Basketball team is enjoying a moment in the media spotlight. Articles in the Pasadena Star-News and the LA Times have attracted national attention, some negative, some positive.

In an interview Thursday afternoon, Josh Moats traced the story back to the beginning of the season when it was announced that Ben Turk was ranked 5th nationally in rebounding. As a result of this, the Pasadena Star-News ran an article about this cello-playing Techer. A story covering the entire basketball team followed on the front page of the LA Times Sports section. However, the Caltech Sports Department felt that it did not focus on the positive aspects of Caltech's Basketball team but was instead overly concerned with the team's win/loss record. These local stories sparked the interest of several national news agencies, an number of which expressed interest in covering the team.

However, after the negative LA Times article, Coach Dan Bridges and the Caltech Office of Public Relations became wary of reporters. CBS News

attempted to film the Caltech Basketball team but were rebuffed by the coach because of a concern that their coverage would not be constructive. Members of the basketball team reflected that they were treated respectfully by *People* magazine and CNN. Chemistry Prof. Erick Carreira loaned space in one of his Crellin labs to allow a photographer from *People* to take pictures of the basketball team.

Josh and several other team members thought that it was rather strange to be in a chemical synthesis lab wearing their basketball jerseys instead of the mandated lab coats, especially since the members present consisted of mechanical engineers, physics majors, and an astronomer. In the presence of *People* magazine, last Thursday, Tommy Hawkings praised the Caltech Basketball team as what student athletics is all about. CNN taped Ben Turk, Josh Moats, Bob Webbink, and Bobby Johnson attending ME70 lecture this Thursday followed by interviews in front of Throop Pond. CNN then proceeded to tape Ben Turk playing his now infamous cello. The CNN piece should be running this Friday evening as part of the regular news.



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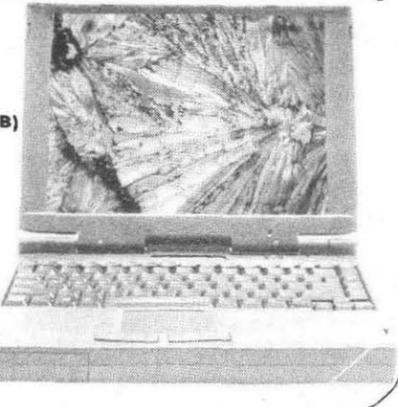
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# TIDE is coming to Tech

CONTINUED FROM PAGE 1

to visually enhance the material. Students could be paid for attending the class, but, of course, they cannot be paid and receive academic credit for the same class.

It is expected that most of the work will occur during a ten-week summer period. Students

will be paid \$10/hour, or \$4000 for the summer.

TIDE gives students the opportunity to use their creativity and originality on these projects. Students might create interactive websites for a course or quick-time videos to embed in computer-generated lecture notes

used in class. Students, the customers of the courses, will have the best ideas about how to apply graphics to enhance the learning environment.

Several TIDE projects have been listed for Bi 1, Bi/Ch 170, and CS 141, and we expect other courses to be listed in the near future. Interested students can find out more on the TIDE webpage ([http://www.cco.cal-](http://www.cco.caltech.edu/~tide)

[tech.edu/~tide](http://www.cco.caltech.edu/~tide)). To apply for TIDE, students will contact the project director to define and develop the project, complete an application and write a Technical Implementation Plan (TIP), solicit three recommendations from faculty and staff at Caltech. All information is on the web page or call the TIDE Office at ext. 2885, or visit TIDE at 137 Beckman Institute.

# B-BALL: Tech Sports

CONTINUED FROM PAGE 9

captain Josh Moats led the offense with 14 points on 4-for-9 shooting, with five rebounds and six assists to add to the fray. Nationally-ranked in rebounding, junior Ben Turk performed again, with sixteen rebounds and ten points. Freshman forward Michael Kuhlen contributed eight points, and senior Scott Lyons nailed two field goals and seven points with perfect three-for-three free throw shooting.

I sit at the table and watch as the four seniors are pulled off the floor, one by one, after their last battle: Scott Lyons, then Josh Moats, then Gilbert Yoh, and finally Bobby Webbink. Each is greeted with hugs, hand-slapping, and the face of a coach clearly endeared with the final products of his labors.

And so, we make the ride back in the dark. But the words of Coach Victor and our teammates undoubtedly aren't running through just my mind over and over on the way home: "I'm going to miss the camaraderie, the laughing . . . it's about being a better person, a better player . . . Play hard, play smart, play together!"

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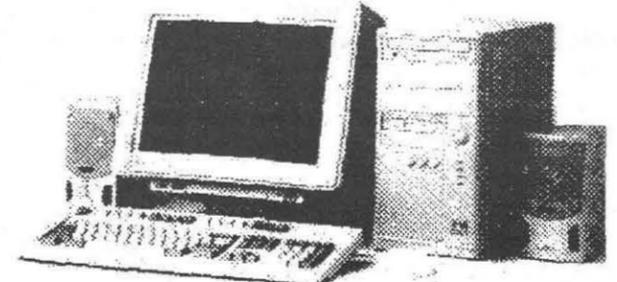
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**ROOM FOR RENT** - Quiet Alhambra townhouse. Private room. Garage parking. Access to entire house. Non-smoker. \$550 per month, plus half of utilities. Call Ed (818) 287-0712

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### FOR SALE -

**Computer Sale:** Saturday, March 1 11 a.m. - 4 p.m. Compaq & IBM All computers come with 14" SGVA Color Monitors, CD-ROM, 486 and Pentium microprocessors, sound system and many programs. Canon Colour Bubblejet Printer. Printer, \$145; Computers, \$600 - \$895! (plus tax). Quantities are limited. 90-day hardware warranty. The Frostig Center, 971 N. Altadena Dr., Pasadena. 818/791-1255

**RATES.....\$4.00** for first 30 words; 10¢ for each additional word. Send written ad with payment to 40-58. Deadline is 6 p.m., Monday before issue. No charge for on-campus lost & found.

# MicroStrategy

*The Hottest Technology & Consulting Start-up Since Oracle. Profitable. 100% Growth Rate. First in Decision Support Market. Stock Options for All Salaried Employees. Last Chance to Sign up for Interviews...*

## About MicroStrategy

### Decision Support

MicroStrategy provides decision support products and consulting services to Fortune 1000 corporations worldwide. Led by its DSSAgent™ offering, MicroStrategy has revolutionized the means by which corporations perform sophisticated business analyses and make decisions. Clients span a variety of industries and include such companies as American Express, Disney, McDonald's, MCI, Federated Department Stores, Bank of America, Victoria's Secret, Merck, Pepsi, Wal\*Mart, and Xerox.

### Industry Excellence

MicroStrategy, driven by such pioneering innovations as data surfing and intelligent agent reporting, has captured a commanding market share in a dynamic decision support industry. Database Programming & Design magazine recently honored MicroStrategy as one of the Database Dozen, the 12 companies that define the direction of the market-place. MicroStrategy is poised to take its place in the computer world alongside Microsoft, Oracle, and IBM.

### Impressive Growth

MicroStrategy's dominance in an industry expected to grow 15-fold before decade's end has translated into phenomenal growth in revenue and personnel – 100% annually – since the company's founding in 1989. The company currently employs 200+ at offices in Washington DC, Atlanta, Boston, Chicago, San Francisco, Barcelona, and London. To facilitate future growth, MicroStrategy recently announced plans to make an initial public stock offering in 1997-98.

## Career Opportunities

MicroStrategy offers opportunities for all degree types. Unlike most corporations, promises of accelerated responsibility to potential recruits are just that – no number crunching or assisting assistants. Aggressive growth demands more. And as growth continues, corporate success will be rewarded with such perks as the annual company cruise and initial public offering stock options.

### Consultants

Responsibilities include client management, proof-of-concept demonstration, and decision support project design and deployment.

### Marketing Professionals

Responsibilities include creative and technical writing, collateral development, information dissemination, and competition research.

### Software Engineers

Responsibilities include requirements analysis, conceptual design, engineering design, and product development.

### Attend Our Info Session:

Wednesday, March 5, 1997  
Cal Tech  
Room 13, Student Activities Center  
4:00 p.m. - 6:00 p.m.

### And Schedule an Interview on:

Thursday, March 6, 1997  
8:30 a.m. - 5:30 p.m.

### Or, Send a Resume & Cover Letter to:

MicroStrategy, Inc.  
Recruiting Coordinator – Cal Tech  
8000 Towers Crescent Drive  
Suite 1400  
Vienna, VA 22182  
(703) 714-1060 fax  
recruiting@strategy.com



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## Events

This week's ASCIT Movie is *Braveheart*. Showing at 7:30pm and 11:00pm in Baxter Lecture Hall. Come and enjoy your FREEEDOM. Admission for ASCIT members is \$2.00, and \$2.50 for non-members.

Sign-up sheets for IHC secretary will be up Friday 28th and will come down Thursday March 6th outside Winnet. Sign-up!

TACIT will perform Tom Stoppard's "Dogg's Hamlet, Cahoots Macbeth" at Ramo Auditorium. The play will be showing Thursdays, Fridays, and Saturdays at 8:00pm, and Sundays at 2:00pm, on February 20th -23rd and February 27th-March 2nd. David and Judy Goodstein will pay for the ticket for any Caltech undergraduate who wants to see the performance. Just sign up at the Deans' Office, 102 Parsons-Gates for any performance and the ticket will be waiting for you at the box office.

Travel lecturer Don Cooper will present "Canadian West," an Armchair Adventures travel film. The film, showing in Beckman Auditorium, at 8pm, on March 7th, explores the path followed by the original expedition of trialblazer Alexander Mackenzie. Admission for Caltech students is \$6.00 and \$4.00. For more information call x4652.

Intel Presentation: "Inside Intel's Microprocessors" will be presented on Friday, March 7th at 3pm in Moore 070 by Dr. Albert Yu, Senior Vice President, Microprocessor Procedures Group, Intel. This presentation is open to the public, refreshments will be served immediately following the presentation. For more information call x 6454.

The Men's Glee Club will give its winter concert in Ramo Auditorium on March 7th and 8th, at 8pm. Under the direction of Donald Caldwell, the Glee Club will present a two-part program featuring folk songs from around the world. Admission is free. For more information call x4652.

Ladysmith Black Mambazo will perform on Friday, March 14th, at 8pm, in Beckman Auditorium. A Zulu art, their cappella singing and high-kicking dance gained international renown as part of Paul Simon's Graceland album and tour. Ladysmith Black Mambazo has recorded thirty albums, establishing them as the number one record-selling group in Africa. Caltech student admission is \$5.00. For more information call x4652.

The UASH meeting scheduled for April 1st has been changed to Monday, March 31st, 1997 at 9am. All reinstatement and miscellaneous petitions must be turned in by Friday, March 28th at 4pm.

Salsa classes with Richard Orozco of Let's Dance LA continue during February in the Dabney Lounge Thursday nights this term from 7pm to 8:30pm. The cost is \$3.75 to Caltech undergraduates, \$5.00 to other Caltech and JPL affiliates, \$5.50 to non-affiliates. Beginners, singles, and couples are welcome. The classes are sponsored by the Caltech Ballroom Dance Club with professional instructors from Let's Dance LA. For more information call Adam Showman at 796-1098 or showman@earth1.gps.caltech.edu.

The Caltech Ballroom Dance Club will offer free beginner Waltz lessons in Winnett Lounge 8-9:30pm Wednesday evenings, Feb 5th, Feb 12th, and Feb 26th. A Viennese Waltz crash course will follow. Check out the club's new web page: <http://www.caltech.edu/~ballroom>.

Free tickets are now available for the 25th anniversary concerts of the Women's Glee Club. There are two performances: Friday, Feb. 28th and Saturday, March 1st. Both concerts begin at 8:00pm. In Dabney Lounge. Get your free tickets at the Caltech Women's Center in Winnet, or leave a message at x3221. The performances include works by Brahms, Fanny Mendelssohn Hensel and Schubert. Additional music is by Debussy, Caccini, Strozzi, and a special commissioned work by Maria Newman.

## Mints

† denotes a new announcement.

The Prefrosh are coming! Prefrosh Weekend will be held from Thursday, April 17th until Sunday, April 20th. Any organizations, groups, or departments wishing to hold Prefrosh Weekend activities are encouraged to contact the Prefrosh Weekend Planning Committee to organize scheduling, etc. Also, any comments or suggestions about Prefrosh Weekend will be welcomed. Send email to [dina@admissions.caltech.edu](mailto:dina@admissions.caltech.edu) or call the Admissions Office at x6341.

## From the Counseling Center

Looking for a safe and supportive place to discuss issues such as coming out, being out, dealing with family, coping with a homophobic culture, and being GLB at Caltech? Want somewhere just to make new friends? You are invited to the **Gay/Lesbian/Bisexual Support Group**, which meets on the first and third Tuesdays of each month from 7:30pm till 10:00pm in the Health Center lounge. This is a confidential meeting and attending does not imply anything about a person's sexual orientation—only that he or she is willing to be supportive in this setting. The group usually discusses a particular relevant topic and then moves on to the general discussion. Refreshments are served. If you would like more information, please call x8331.

## Stress Management for Students

For help in learning how to relax and manage stress, Jon Pedersen, Ph.D., and Fern Klapper, M.A., of the Caltech Counseling Center, will be offering a four-week workshop beginning February 11th. On each of four consecutive Tuesdays, from 12:00 - 12:50pm, a variety of practical, simple, and effective techniques will be taught, ranging from progressive relaxation to basic meditation techniques to the principles of healthy living. The sessions will be primarily experiential and will build on material from the previous week. This workshop is open to any student and if you are interested, please contact Dr. Pedersen at x8331.

The Caltech Counseling Center is sponsoring a program entitled "Stress Management in the First Two Years of Graduate School." This program will consist of a discussion and presentation by a panel of graduate students (Selena Forman, Weng Ki Ching, and Ivett Leyva) and Counseling Center staff Aimee Ellicott, Ph.D. and Deborah Southerland, M.A. We will focus on the specific kinds of stress grads encounter as first and second year students, such as adjusting to graduate school, qualifying exams and relationships with advisors. The program is open to all graduate students and will be held on Thursday, February 13th, from 6:00-7:30pm in Winnett Clubroom One. Light refreshments will be provided.

If you have any questions about these programs or want to discuss your individual questions or concerns regarding coping with stress, please contact the Counseling Center at x8331

## Fellowships and Scholarships

College students who are U.S. citizens and have a grade point average of 'B+' or better are eligible for a \$1000 college scholarship. To receive an application, send a request by April 11th, 1997 to the **Educational Communications Scholarship Foundation** at 721 North McKinley Road, PO Box 5012, Lake Forest, IL 60045-5012; fax a request to (847) 295-3972; or e-mail a request to [scholar@ecif.com](mailto:scholar@ecif.com). All requests for applications must include the student's name, permanent home address, city, state, zip code, name of college, appropriate GPA, and year in school during the 1996-1997 academic year. Applications will be fulfilled by mail only, on or about

April 22nd, 1997. Thirty-five winners will be selected on the basis of academic performance, involvement in extracurricular activities, and some consideration for financial need. A total of \$35,000 will be awarded.

**Literature Prize Announced.** The Literature faculty is pleased to announce the 51st Annual McKinney Competition. The Mary A. Earl McKinney Prize is awarded each year for excellence in writing. Only full-time students officially registered at Caltech as undergraduates are eligible to enter the competition. This year, prizes will be given in three categories: poetry, prose fiction, and non-fiction essays. All submissions must be typewritten and double-spaced. In the poetry category, entrants may submit up to three poems. Submissions of prose fiction should not exceed 12,000 words. Essays may be ones prepared for a humanities class or any good piece of original writing on a topic relevant to the humanities. The prizes in each category will be \$300. Each student is entitled to only one entry in each category. All contestants must submit their work to Professor Jenjoy La Belle, Division of the Humanities and Social Sciences, 101-40, by no later than April 4th, 1997. No entries will be returned. Each category will be judged by a committee from the Literature faculty. Essays will be judged on the quality of thought and the effectiveness of the writing. Winners will be announced in May, and the names of the winners will appear in the commencement program. The Committee may divide the award in each category in case of more than one outstanding submission. Previous winners in any one category are not eligible for the competition in that category. If you have any questions, contact Professor La Belle, x3605, or Doreen Domb, x3610.

From the Dean's Office, 102 Parson-Gates.

Caltech students interested in a career-related to environmental public policy and Native American and Alaska Native students interested in careers related to health care and tribal public policy are invited to apply to be named a Morris K. Udall Scholar. The Morris K. Udall Scholarship and Excellence in National Environmental Policy Foundation operates an educational scholarship program designed to provide opportunities for outstanding U.S. students with excellent academic records and demonstrated interest in, and potential for careers in the fields of environmental public policy, health care, and tribal public policy. All applicants must be a current sophomore or junior pursuing a bachelor's degree on a full-time basis, have an average of at least a B or the equivalent, be a U.S. citizen, U.S. national, or resident alien, have a demonstrated interest in a career in environmental public policy or be a Native American or an Alaska Native and have demonstrated interest in a career in health care or public policy. If you are interested, please contact the Dean of Students Office, 102 Parsons-Gates, for an application. Deadline for receipt of nomination materials to the foundation is March 3rd, 1997.

The Dean of Students Office is accepting proposals for the Monticello Foundation Internship and the Robert and Delpha Noland Summer Internships. Three to five Caltech undergraduate women will be given an opportunity to participate in research projects outside of the Caltech community for ten weeks during the summer. Each student will receive a \$3,500.00 stipend. Applicants are required to identify the projects in which they wish to participate. All arrangements with the principal researcher will be the responsibility of the student. There are no restrictions as to where the research can be done, except that it must be outside the Caltech-JPL community. Other universities, commercial labs, or any industrial facility in which the student can arrange to conduct or participate in a research project can be the site for the experience. Each student will be asked to submit a short synopsis of her report to the Deans' Office at the end of the summer. If you are interested,

please identify a sponsor for your experience at a research facility for a ten-week period. In a short essay, describe your project, and submit it to the Deans' Office in Room 102, Parsons-Gates along with two faculty recommendations. The Deans would like to know for whom you would be working, where, and if possible some specifics concerning your proposed research topic. Proposals must be received by Monday, March 3rd, 1997.

From the Fellowships Advising and Resources Office, x2150, e-mail [lauren\\_stolper@starbase1.caltech.edu](mailto:lauren_stolper@starbase1.caltech.edu).

The American Association of University Women offers a number of fellowships to women who are U.S. citizens or permanent residents, including one year post-doctoral fellowships and special dissertation fellowships. The international fellowship is awarded to women who are not citizens of the U.S. or permanent residents who are engaged in full-time grade or post-graduate study in the U.S. A poster with a tear-off card that allows you to send for an application is posted on our main bulletin board.

From the Financial Aid Office, 515 S. Wilson, second floor:

The Marin Education Fund announces the opening of its 1997-98 Undergraduate Grant application process. Applicants must be residents of Marin County, be enrolled at least half-time in undergraduate study, and have a low to moderate income. Applications are due March 2nd, 1997.

The American Women's Club in Sweden will be awarding a travel grant for study and research in Sweden. To qualify you must be a woman, age 18 or over, and an American citizen. You must also be accepted for a period of study or research at a Swedish educational institution or agency and show evidence of financial need. The completed application and all supporting documents must be received by April 15th, 1997.

The Jewish Vocational Service is accepting applications for scholarships from the Jewish Community Scholarship Fund. The scholarships are designed to provide financial assistance to Jewish students who are legal residents of Los Angeles County, attending college on a full-time basis. Applicants must have a 2.5 minimum G.P.A., must be a sophomore or higher by September 1997, and must be able to document significant financial need. The deadline for submission of completed applications is April 15th, 1997.

The Danville-Alamo Branch of the American Association of University Women (AAUW) will be awarding several scholarships of \$500-\$1,000 to female college students who will be juniors or seniors as of September, 1997, and who have lived in the San Ramon Valley, or have attended school there. Applicants will be evaluated on the basis of scholarship, achievement, educational goals, financial need, and campus or community involvement. An application package can be obtained from: Mary Ann Osborne, 2530 Roundhill Drive, Alamo, CA 94507.

Completed applications must be post-marked by Tuesday, April 1st, 1997.

The John Gyles Education Fund is offering financial assistance to students who are Canadian or U.S. Citizens. A minimum G.P.A. of 2.7 is required for eligibility. Criteria other than academic ability and financial need are considered in the selection process. Selected students will receive up to \$3,000. To receive an application, send a stamped (U.S. \$ .32), self-addressed, No. 10 envelope to: The John Gyles Education Fund, Attention: R. James Cogle, Administrator, P.O. Box 4808, 712 Riverside Drive, Fredericton, New Brunswick, Canada E3B 5G4. Filing dates for mailing applications in 1997 are April 1st, June 15th, and November 15th, 1997.

The Chinese-American Educational Foundation announces its scholarship program for students of Chinese descent. Eligible students are graduate students or undergraduates who are juniors or seniors, and who will be enrolled full-time in Fall of 1997. Eligible students must also be U.S. Citizens or permanent residents. There are two \$1500 scholarships available for graduate students and seven \$1000 scholarships available for undergraduate students. The deadline to submit applications is March 31st, 1997.

The ACIL (formerly the American Council of Independent Laboratories) Scholarship Alliance is offering scholarships for students majoring in the physical sciences: physics, chemistry, engineering, geology, biology, or environmental science. Awards are based on academic performance, career goals, leadership, and financial need, and are typically \$1,000-\$2,000. To apply you must be a junior or senior in undergraduate study, or a graduate student. Applications and all supporting documents are due April 15th, 1997.

The Coalition of Higher Education Assistance Organizations (COHEAO) is pleased to present an opportunity for students to apply for three \$1,000 scholarships and three \$200 runner-up awards. Applications and supporting documents are due May 15th, 1997.

The American Scandinavian Foundation of Los Angeles will be awarding five scholarships of \$1,000 each to upper division and graduate students. Applicants must exhibit a connection to Scandinavia via life experience, field of study, or heritage. Applications and supporting documents are due March 21st, 1997. To request an application, write to: James Koenig, ASFLA Scholarship Chairman, 3445 Winslow Drive, Los Angeles, CA 90026.

The Sunkyong Group of Korea and LeaderShape Inc. are sponsoring the "Global Leaders of Tomorrow" essay contest. Entrants must be undergraduate or graduate students at the time their entries are submitted. Essays may be written from one of four perspectives: Business, Government/Law, Science, or Media/Communications. Three winners will be selected in each of these 4 categories. First prize (1 winner in each category) is \$2,500 plus a one week trip to Korea. Second prize (1 winner per category) is \$500 plus one week at a LeaderShape training program. Third prize (1 winner per category) is \$500. The Financial Aid Office has more information. The deadline for entries is April 15th, 1997.

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