

photo by Aron Rempel

Jason Wiener, Scott Driggs, and Priya Rai try to coax their vessel into readiness.

Frosh Camp 1993 in one word

by Amanda Eckerman

Hell. Non-Abelian. Humbling. Varied. Inspiring. Sun. Dirt. Water. Awesome. Liquid. Sensual. Exhaustive. Illustrative. Enlightening. Wall-less.

Staggering off the boat to our cabins and bunks with our luggage and swaying under the effects of Dramamine, we frosh hardly recognized the beauty of Catalina island upon first arrival. The assembly held on the hill under the warm sun did little to wake us up. The bitter taste of the watered-down peach jell-o flavored drink at lunch, however, restored us to reality. We were freshmen at Caltech! Class of

1997! And the food was terrible!

As the camp continued, we met members of the exceptional faculty here at C.I.T. and more of our classmates, learning exciting facts about them and about ourselves. For instance, physics is a popular major... at the moment, and yes, Catherine does know Alison... now. Personally, I learned that whoever makes duct tape controls the universe. Or, at least, they control the design contests at Caltech's frosh camps. Of the ten boat designs, not one could have existed without the sticky silver stuff. The hours spent revolving around the boat construction would

see FROSH CAMP, page 5

Pattatucci discusses gay gene link

by Vicki Brown and Rich Chin

What is the relationship between genetics, sexuality, and health? Dr. Angela Pattatucci addressed this question before a crowded Dabney Lounge on Friday, September 24 in a lecture sponsored by CLU (the Caltech Lesbian Gay Union) and NOGLSTP (the National Organization of Gay and Lesbian Scientists and Technical Professionals).

Pattatucci is a research fellow in a five-person lab which recently published findings that show a concordance in chromosome 15 between gay brothers. She is currently directing a similar study on lesbians.

The rationale behind these studies is not just to see whether homosexuality is inherited, but also to study links between homosexuality and certain diseases. Pattatucci mentioned that HIV-positive gay males are 8 times more likely to develop Kaposi's Sarcoma (KS) than any other person with HIV. She believes there could then be a genetic susceptibility to KS that is

linked to homosexuality.

Her study of lesbians explores the high incidence of breast cancer (especially early-onset) in homosexual women. There are several possible explanations for the increased rate of breast cancer in lesbians: lower fecundity, fewer hormones (from birth control), greater stress (from homophobia), a lower likelihood to check with a doctor, or a combination of these.

In her study of male homosexuals, Pattatucci looked at gay males gay brothers. Of approximately 40 such men, ranging in age from 21 to around 50, two-thirds share the concordance in chromosome 15. Pattatucci interviewed and took blood samples from the men and their families, and found that a gay man has a 13% chance of having a gay brother, but only a 5% chance of having a lesbian sister. In her current study of women, she has found that there is a 13% chance that a lesbian will have a gay sister, and a 5% chance that she will have a gay brother. After studying the subjects' extended families, she

discovered that gay men often have gay male relatives on the maternal side, while lesbians tend to have lesbian relatives on the paternal side. Using her comparison with the heterosexual relatives, she determined that the chromosomal similarity has a 100,000 to 1 chance of being unique to gay men with gay relatives.

Dr. Pattatucci is not only a geneticist, but a psychologist as well, and is trying to make sure that the social ramifications that may arise from such a study are dealt with prior to each major step in her research. She says that the fact that they have found a common locus in these men is analogous to locating which street a person lives on, which is not very close to finding the exact address, i.e. the gene. Since they have not located a specific gene, genetic testing and mapping based on her group's newly discovered locus cannot determine whether a person is gay or not. She also says that there is likely to be a whole gene environment

see PATTATUCCI, page 5

Caltech graduate dies in automobile accident

by Michael Benedetti

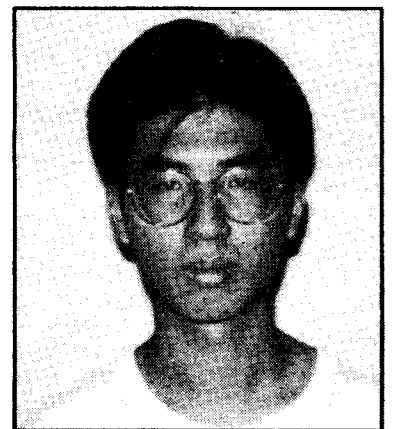
On September 18, Ting Kin Tam ('93) died in a car accident near Bakersfield while travelling to Stanford for graduate school. Two Caltech undergraduates riding in the car were slightly injured.

The three were travelling north on Interstate 5 to Palo Alto. At about 6 a.m., the driver lost control, and the vehicle crashed and rolled. According to coroner's and police reports, Ting was ejected from the car in the crash.

Ting, an Electrical Engineering major from Page House, was graduated from Caltech summa cum laude in 1993. Originally from Hong Kong, Ting managed to pay his way through Tech with the help of grants and scholarships.

Ting spent much of his last year at Tech working on his senior thesis, a pioneering research project on separation of speech. In association with the late Dr. Edward Posner, Ting worked to develop methods of electronically filtering out one voice in a conversation, leaving the other intact.

Friends remember Ting as a quiet man who never became angry or frustrated. He was like a tutor to everyone, using his power-



Ting Kin Tam

ful reasoning skills to solve problems in a variety of subjects.

Ting's funeral was held last Saturday at the Rose Hill Mortuary. It was attended by about sixty members of his family and friends, including several members of the Caltech faculty and administration. Ting's remains will be buried in Hong Kong.

His family would like to thank the Institute for its help and support in this crisis.

It should not take tragedy like this to remind us of the importance of wearing a seat belt. Please remember to always wear one, and insist that others riding with you do the same.

Feynman teaching prize established

A teaching prize in memory of the revered Caltech professor Richard P. Feynman has been established through an endowment from Ione and Robert E. Paradise. The

prize is intended to recognize "unusual ability, creativity, and innovation in undergraduate and graduate classroom and laboratory teaching." All professorial faculty are eligible to win the Feynman Prize.

The winner of the Feynman Prize will receive a cash award (initially \$3000), accompanied by an equivalent raise in annual salary. Nominations for the prize may

be submitted by any member of the Caltech community. The winning nominee will be selected by a committee appointed by the Provost, which shall consist of three professors, one undergraduate, and one graduate student. Nominations should be sent to the Office of the Provost (Mail Code 206-31) by November 15.

•The Deans' Office has a blue and white sleeping bag and a pair of Nike tennis shoes that were turned in from Frosh Camp. Please come to Room 102, Parsons-Gates to inquire.
•A pretentious watch was found in the Coffeehouse after the Club Fair. Call Head Manager Steven Skovran at x8309 to inquire.

Attention:

Last Friday evening at 9:40 P.M., a PCC student was assaulted and raped at the corner of Colorado Boulevard and Hill Street. To the best of our knowledge, her assailant is still at large. According to Pasadena police officials, the attacker was a man driving a light-brown car, possibly a Honda Accord.

If you feel uncomfortable walking across campus at night, please call Caltech Security (x4701) for an escort.

CIT guitar classes for the fall quarter will meet on Tuesdays starting on October 5 in SAC room 1. Times are as follows:
Beginning Class 4:30-5:30
Intermediate Class 3:00-4:00
Advanced Class 5:30-6:30
Classes are free to members of the Caltech community.

The California Tech

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letter

Adam Villani:
Media Twit

If this Adam Villani dude is going to sell himself as the Media Guy, he'll need to avoid being such a twit. The name of John Cage's show at MOCA is "Rolywholyover A Circus" [with two spaces between *Rolywholyover* and *A*], not "Rolywholyover: A Circus". John Cage always paid careful attention to details like punctuation, and a brief glance at the two versions suffices to show that they evoke rather different responses from the reader.

Paul Asimow

Media Guy apologizes for the error.

Please send letters to the editor to *The California Tech*, Caltech 40-58, Pasadena, CA 91125, or by e-mail to editors@tech.caltech.edu.

The Tech reserves the right to edit all letters for brevity or otherwise, and to refuse to print any letter for any reason.

We are prepared to accept letters written in English, Chinese, French, German, Japanese, Russian, Spanish, and Yiddish. If you are planning to submit in some other language, please contact us beforehand.



by Gypsy Achong

Summer Crime Summary

A tip for everybody who will be moving after rotation: at the end of last term while everyone was packing up and moving, there were quite a lot of thefts. It's easy to overlook that something is missing when all of your belongings are packed or in the process of being packed. Perhaps numbering your boxes would make it easier to keep track of them. I would also suggest that you lock your doors while you are in transit, even if you are just moving boxes from outside to a room somewhere inside your house. Here's a very brief summary of what happened over the summer:

There are many weird non-Techers who are gaining access to buildings on campus. On two separate occasions a man exposed his genitalia to a female member of the Caltech community on Caltech property, once in a building on-campus.

Several locked offices were entered and personal belongings stolen from them. Many computers and other computer related equipment were removed from private offices, labs and Caltech housing.

Just a note to residents of the Catalinas: please lock your bike even if it is on your balcony. Thieves are becoming extremely resourceful and are willing to climb almost anything to steal a bike.

Caltech Crime Statistics
from the 1993 Annual Security Report

| Crime | 1990 | 1991 | Jan-Aug 1992 |
|---------------------|------|------|--------------|
| Aggravated Assault | 0 | 0 | 0 |
| Burglary | 0 | 6 | 5 |
| Rape | 0 | 0 | 0 |
| Motor Vehicle Theft | 2 | 11 | 4 |
| Murder | 0 | 0 | 0 |
| Robbery | 0 | 3 | 2 |

Ernest Explains

Ernest Tomlinson

Dear Ernest,

I am an international student trying to learn more about American popular culture. In pursuit of my goal, I spent some time last weekend watching "Saturday Night Live." I was assured that "SNL" is a comedy program, yet I didn't find it funny. Can you help?

—Davis Chin

Dear Davis,

Always watch "Saturday Night Live" drunk. That way, you'll laugh at the jokes, and you won't remember the sketches when they do them again next week.

Dear Ernest,

I have a question for you: why does Dabney House have a chessboard in its courtyard?

—Phinny the Frosh

Dear Phinny,

At one point, all the South Houses had chessboards in their courtyards. Then, one fateful night, Ricketts house was having a particularly intense alley challenge in chess, and Crud yelled out, "Pawn takes pawn, *en passant!*" Unfortunately, their opponents from L.D. alley were unfamiliar with the *en passant* rule. An L.D. frosh, whose mind was obviously warped by too much youthful indulgence in Mortal Kombat, proceeded to wrest a Crud frosh's head and spine from his body. The ensuing riot spread to Blacker when several house members saw a golden opportunity to use their paramilitary assault rifles. Fleming, mistakenly thinking that they were being Discobolus-challenged in Civil Unrest, simultaneously flushed all their toilets and then leapt into the fracas. At the time, most of the population of Dabney house was attending a demonstration against increased dental hygiene requirements for imported Peruvian llamas. The administration cracked down quickly on the Houses involved, ripping out their chessboards and replacing them with a fire pit, badminton courts and two big telephone poles, all intended to serve as monuments to the ignominy of the shamed Houses. As a reward to Dabney for its accidental pacifism, the administration filled in the world map that had only weeks earlier been carved into Dabney's chessboard. Said one Darb, "It was just awful! I kept stubbing my toe on Australia whenever I'd play Jai Alai."

MOM is a math prof @ a small, midwestern liberal arts college.

Today we will be talking to Dr. Morton Lange.

Dr. Lange is a visiting Professor of Toys. What's that, Mort?

A gorvey doll.

Pretty homely. Yes, but it thinks it is cute. Fools a lot of smart people.

Really? You'd be surprised.

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Bad Behaviour

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Sat-Sun Bargain Matinee 2:00 p.m.
Starts Friday, October 8:
M. Butterfly

Angola

The U.N. Security Council voted to impose a fuel and arms embargo on Angolan rebels led by Jonas Savimbi unless it complies with a cease-fire and 1991 peace accords. This is the first time that the U.N. has imposed sanctions on a rebel army.

Australia

The International Olympic Committee voted to hold the 2000 Summer Olympics in Sydney, Australia. It narrowly beat Beijing, China, possibly because of Chinese human rights violations.

Azerbaijan

Azerbaijan will hold elections this Sunday. Popular former KGB leader Geidar Aliyev is expected to win easily.

Bosnia-Herzegovina

The Bosnian Parliament met to decide whether to accept the U.N.-mediated peace plan. The plan involves dividing Bosnia into three ethnic mini states. Many Bosnian Muslims said that the plan was unacceptable unless Serbia would return the land it had taken, which Serbia refuses to do. The Parliament adjourned without deciding whether to accept the agreement.

Cambodia

Prince Norodom Sihanouk signed a democratic constitution and appointed a government. He has returned to the throne under U.N. intervention. His coronation ends the U.N. mandate in Cambodia. His son, Prince Norodom Ranariddh, became prime minister and asked the Khmer Rouge to turn over territory it controls in Palin to the government. The Khmer Rouge has agreed to attend peace talks with Sihanouk.

Georgia

Abkhazian separatists, breaking a two-month-old cease-fire agreement, took over the city of Sukhumi. Georgian President Eduard A. Shevardnadze accused Russia of aiding the separatists. The Russian government denied aiding the Abkhazians, but there is evidence that regional Russian military commanders are aiding the separatists without approval from

the Russian government. Shevardnadze claimed that the Abkhazians executed "scores" of Georgian officials and civilians.

Israel

The Knesset ratified the Israeli-PLO peace agreement 61-50.

The Judean Police, a Jewish group in the West Bank, said that they would shoot any members of the Palestinian Liberation Army being formed under the recent Israel-PLO agreement.

Libya

Libya continued to resist demands from the U.S. and U.K. that it extradite two Libyans charged in the Pan Am bombing. The U.S., U.K. and France threatened to freeze its overseas accounts and to impose stricter sanctions.

Mexico

The Institutional Revolutionary Party (PRI) claimed victory in the gubernatorial race in the northern state of Coahuila. Opposition parties accused the PRI of electoral fraud. The PRI has had control of Mexico since 1929.

Philippines

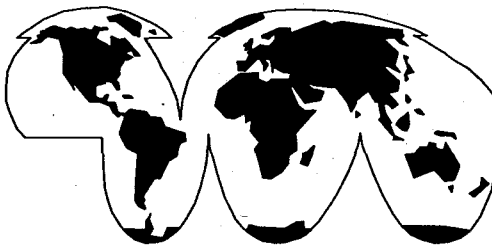
Imelda Marcos was convicted on two counts of corruption and sentenced to nine to twelve years of imprisonment for each of the charges.

Russia

Yeltsin dissolved Parliament, which is largely composed of communists who have opposed his reforms. He said that there would be Parliamentary elections in December, and presidential elections six months later. The Parliament responded by impeaching Yeltsin, and elected Vice President Alexander V. Rutskoi as acting president. Yeltsin and Rutskoi both claimed to be president of Russia. Rutskoi called for elections in February for both the president and the Parliament.

The Constitutional Court ruled that Yeltsin's actions were out of line. Yeltsin took away Constitutional Court Chairman Valery D.

World News



by Momo Jeng

Zorkin's car phone and country home, and removed security guards from the court. Yeltsin also declared Parliament's property confiscated. He also cut off electricity and communications to the Parliament building. Crowds demonstrated both for and against Yeltsin.

Somalia

Three American airmen were killed by Somali attacks. Other Americans and Pakistani were injured. Eyewitnesses reported that nearby Somali celebrated the attack. The U.S. blamed Somali warlord Mohammed Farah Aidid. Somali gunmen fired grenades at the office of the U.N. special envoy to Somalia. The attacks led U.S. congressmen to call for the withdrawal of U.S. troops from Somalia.

Clinton said that he wanted a specific date set for withdrawing U.S. troops from Somalia. U.S. officials suggested that they would be willing to stop attempts to capture warlord Aidid.

South Africa

The white South African Parliament voted to create a Transitional Executive Council to supervise the government and prepare for the multiracial elections that will be held April 27th. It will have oversight authority over the police, armed forces, and the budget. Nelson Mandela responded by calling upon world leaders to lift the economic sanctions against South Africa. Clinton lifted most federal sanctions. The IMF agreed to \$850 million of aid to South Africa.

United States

The Senate passed the Hyde Amendment 59 to 40. The 16 year-old Hyde Amendment bans Medicaid from using federal funds to pay for abortions. It has already been passed by the House.

The House passed Sam Nunn's modification of Clinton's "don't ask,

don't tell" policy regarding gays in the military. The policy has already been approved in the Senate.

Recently-elected Republican Texas Senator Kay Hutchison was indicted on felony charges. She was accused of using state employees and facilities for her personal business needs when she was state treasurer, and of ordering state employees to destroy evidence of her activities.

Clinton said that the U.S. government would work with the three major U.S. auto makers to develop more fuel-efficient cars. This is seen as a test of Clinton's industrial policy, which is supposed to support the development of useful technologies. The agreement between the government and the "Big Three" is the result of seven months of negotiations between the government and the auto makers. Environmental groups were pleased but concerned that the agreement did not have specific goal and deadlines. The plan is likely to cost more than \$1 billion.

Venezuela

A gas pipe exploded beneath a Venezuelan highway, killing 36 people.

Venezuela is officially a federal state, but in practice is a completely unitary state. The last vestiges of federalism were removed in 1945 when the federal government took the power of the state governments to designate judges. The current constitution, written in 1961, recognizes that Venezuela is a federal government in name only, but states that federalism is a desirable goal for the country. It is interesting that the municipalities have much more power than the states, since they are much less

limited by the federal government in their ability to tax.

Venezuela's constitution has a strong separation of powers. Because of periods in Venezuela's history when they were controlled by powerful dictators, there are a lot of checks and limits on the president's power. Most acts of the president have to be countersigned by another minister who has jurisdiction in the relevant subject. A Council of Ministers can rule on many acts of the president. And the Chamber of Deputies can vote by a two-thirds majority to censure and remove a minister—it is interesting that they have censured ministers, but never actually removed one. The president is only allowed to run for reelection after he has been out of office for at least two terms.

The veto system is somewhat complicated. After the Congress passes a bill the president can veto it. If the veto is overridden by a two-thirds vote the bill stands. If less than half vote to override the veto, the veto stands. If the veto is overridden by over a majority but by less than two-thirds the president can return the bill to Congress a second time for further deliberation. If the veto is overridden a second time the bill is a law unless the president's objection to the bill is based on its constitutionality. If the president claims that the bill is unconstitutional he can then send it to the Supreme Court of Justice, which must decide on the constitutionality of the bill within 10 days. If the Court does not decide within ten days, the president must promulgate the law, regardless of what the Court may later decide. If the Court decides that the law is unconstitutional, then the veto stands.

The constitution also says that Congress appoints a General Public Prosecutor of the Republic, who is supposed to "ensure respect for the right and guarantees of the constitution." He essentially acts as an ombudsman for the public.

The constitution can be amended by congressional approval and ratification by two-thirds of the state legislatures.

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THE WATSON FELLOWSHIPS

REMINDER TO INTERESTED SENIORS

A one- to three-page project proposal draft for the Watson Fellowships is due in the Dean of Students office, 102 Parsons-Gates, on

Friday, October 8, 1993.

Keep in mind that successful proposals generally have a single topic of study or investigation that reflects a student's long-standing interest in that area.

The Watson Foundation provides fellowships of \$15,000 for a year of independent study and travel after graduation. They are designed to encourage an informal break in the normal sequence of undergraduate-postgraduate education and are a marvelous opportunity to travel outside of North America. Caltech nominates two seniors each year for this fellowship.



entertainment

My Descent into Hell

by Michael Benedetti

The original "Bat Out of Hell" is (in my mind) the epitome of what can go wrong with rock 'n' roll. It features excessive arrangements, overwritten lyrics, irritatingly earnest singing, and incredible overproduction throughout.

Strangely enough, I like it. The tracks cohere into a colorful whole, and there is enough musical inventiveness throughout to make up for the orchestral choirs and moaning backup singers. It's also a fascinating compilation of the various techniques developed by performers in the 70's to inject false emotion and soul into dry, witless productions.

The recently-released sequel, "Bat Out of Hell II: Back Into Hell", reunites the three central figures from the original (singer Meat Loaf, songwriter Jim Steinman, and producer/guitarist Todd Rundgren) for another shot at rock immortality. This might have been an interesting piece of music. Unfortunately, poor production, off-target vocals, and truly horrible songs keep this album from reaching the campy heights of the original. "BOOH II" is dull and disappointing.

The album starts off with "I'd Do Anything for Love (But I Won't Do That)", a slightly catchy update of the original "Bat" sound. The album then offers us "Life Is A Lemon And I Want My Money Back", the first in a series of songs with long titles and little appeal. The songs suffer from unwieldy choruses and arrangements that smack of Journey, Foreigner, and Air Supply. Not much different from the first album, except that Meat Loaf no longer phrases well enough to keep the refrains from becoming repetitive, and the arrangements now produce yawns instead of smug chuckles. Part of the problem may be that the sequel is produced by songwriter Steinman, and Rundgren's only contribution is backing vocals.

"BOOH II" hits a steady, boring stride until track 7, "Wasted Youth." While the rest of the album is merely uninteresting and a little annoying, "Wasted Youth" is truly agonizing. A spoken word piece (with sound effects) by Steinman, it is a pretentious, overwritten ("Chuck Berry red"), badly performed mess. It is the *worst* song I've ever heard (including anything by Throbbing Gristle or the

see HELL, page 5

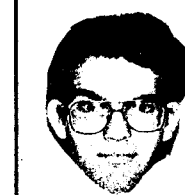
Glory Season disappointing

by Chris DuPuis

David Brin's most recent offering to the science fiction genre, *Glory Season*, seems to be the author's first attempt to sell a book merely on the basis of his reputation. On its own merits, *Glory Season* is a book that I would never bother reading. However, since I truly enjoyed his earlier writings, I ponied up my money and bought it in hardcover. After struggling joylessly through the entire book, I realized that my money had been wasted.

The backdrop of this story is the planet Stratos, which has been isolated from the rest of human society and has developed a strange system of reproduction, in which the male and female sex drives exist only seasonally. The complication is that this happens in women during the winter, but it occurs in the summer for men. Thus, sexual reproduction is largely suppressed, occurring only rarely, for the sake of genetic diversity and to keep a healthy supply of men available. Women, however, are able to produce clones of themselves, with the aid of a chemical found in semen. The clone-daughters of powerful houses control the planet, while the natural daughters are sent out into the world to fend for themselves. All male children, on the other hand, are apprenticed to be sailors. The reason for this was that men were legally subhuman, and were permitted no other options than life at sea. The explanation for this was that the planet had been colonized by a group of radical feminists, who decided to make men subservient to women forever.

The story revolves around a young woman living on Stratos when the first contact from the rest of humanity arrives on the planet. Strangely enough, this plot is almost identical to that of *The Left Hand of Darkness*, by Ursula K. Le Guin. The main difference between the two is that Le Guin's book is truly excellent, while *Glory Season* is almost good enough to be called mediocre. *The Left Hand of Darkness*, which won the Nebula Award in 1969 and the Hugo Award in 1970, is one of the classics of science fiction, about a society in which humans possess sex only once a month, and are



ADAM VILLANI: MEDIA GUY

by Adam Villani

NYPD Blue

The very first thing I noticed when watching the much-ballyhooed premiere of this show was the annoying faux *cinéma-vérité* cinematography. The camera moved around so much that I almost got seasick, and each closeup of a character's face had an obligatory wiggle in an otherwise still shot. This effect did not complement the show at all, except that if I ever have any thoughts about watching this show again, thinking about the photography will quickly suppress them.

In addition, everybody in the program hated everybody else. The controversial nude scene was too poorly done to titillating, but too revealing for polite company. The gratuitous vulgarity, violence, and sex broke limits for network television, and my only hope for this show is that in the future, there might actually be quality shows with adult material (yeah, and maybe *The California Tech* will win a Pulitzer).

The Wedding Banquet

This new Taiwanese-American comedy is one of the best films I've seen all year. The plot centers around two gay men in New York: Simon, a white American, and Wai-Tung, a naturalized citizen from Taiwan. Wai-Tung's mother keeps pestering him to get married. A female tenant of his has a crush on him, and is in trouble with immigration, so Wai-Tung decides to marry her as a mutual convenience. Unfortunately his Taiwanese parents announce that they are coming to America for the wedding, and so he and Simon must try to hide their sexuality.

This movie is particularly powerful in its characterizations. Neither Wai-Tung nor Simon is a swishy stereotype or an ACT UP-style radical. Wei-Wei, the bride, is very humorous as a self-assertive yet hapless artist. Most surprising is that Wai-Tung's parents come across as real people who first realize, then uneasily yet genuinely accept their son's lifestyle.

This film is touching, witty, and thoroughly enjoyable. It would be a great movie to take a date to even if you're not gay.

Meat Loaf:

"Bat Out of Hell II: Back into Hell"

I've long contended that the first "Bat Out of Hell" album, written by Jim Steinman, contained the worst music ever created by humans. Messrs. Loaf and Steinman have teamed up again to create an album whose only redeeming feature is that it's blander than the first, and thus less egregiously bad.

Prog Watch

In 1991, Atlantic released "Yesyears," a reasonably good 4-disc boxed set of music encompassing Yes's career. Last year they released a compressed 2-disc version, "Yesstory." Now they've released a completely gratuitous single-disc compilation called "Highlights: The Very Best of Yes." It's got all of their best known stuff, but if you've never listened to a Yes album, a better introduction to this great band would be one of their original albums, like "Fragile," "Close to the Edge," or "The Yes Album." Progressive rock doesn't really work as singles; one must really listen to a whole album to appreciate it. Maybe this is why *Rolling Stone* hates prog.

asexual for the rest of their lives. I would recommend it highly, but that's getting away from the original review.

The characters seem generally flaccid and lifeless throughout the book, so much so that it was impossible for me to relate to any of them, even during the scenes that, if well written, might have been moving. Even the Perambulator (Brin's version of Le Guin's En-

voy) seemed to have very little in his personality that differed from the natives of Stratos. Finally, I found the ending to be completely unsatisfying, since it seemed that Brin just ran out of motivation and decided to just put his pen down and call the story finished.

In all, I would say that only die-hard fans (the kind who thought that Asimov's *Foundation and Earth* was a decent sequel to his *Foundation* trilogy) will get any enjoyment out of *Glory Season*.

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In Memory of Junior, by Clyde Edgerton

by Anne Dudzik

In Memory of Junior, Edgerton's fifth novel, centers around the conversational lives of two families in North Carolina. Like the film *Slacker*, the focus of the novel shifts from one character to the next, and is related in first person from dozens of characters. The novel is much more coherent than *Slacker*, though, because all of the characters are interrelated, and they refer to each other.

As they gossip, the characters reveal the frustrations of the lifestyles that family tradition has anchored upon them. Whenever a family member moves away to a more urban setting, he is immediately severed from the family, because the elder members can not comprehend the changes in society that have happened since their time. The children, therefore, are restless and either leave or reconcile themselves to relive their parents' lives. They are saved by the humor of the select relatives who stir up trouble locally, providing the others with enough to talk about to keep them busy.

continued from page 4

Hell

Grateful Dead). You might want to borrow a copy to see for yourself.

The rest of the album is an unremarkable rehashing of 80's rock/pop. The monotony is only broken by the instrumental "Back Into Hell", a synth-fest that sounds like some sort of documentary theme song.

As you may have gathered by now, I don't recommend that you buy this album.

Note to the unconvinced: In preparation for writing this review, I planned to listen to "BOOH II" four times in a row. Midway through the third listen, I developed painful intestinal cramps and had to take a break. I started listening again, but the cramps became worse. I stopped listening, and went home to rest. As soon as I lay down, I began to vomit. No foolin'.

continued from page 1

Frosh Camp

have been less stressful (and therefore less fun, I must add) had there been more than one pair of decent scissors and more than two rolls going between groups.

We also socialized as a direct result of the talks concerning the honor system, "Challenges and Choices", and AIDS. Everyone already knew too much about the honor system to stay awake, but the hypothetical situations provided material for teasing later. The "Challenges and Choices" resolutions were too obvious for

the hokey situations to be considered seriously, making it good entertainment, both then and at the talent show. Not surprisingly, everyone seemed to be fascinated by the rubber and latex devices used as demos at the AIDS discussion, although I am sure whoever made off with the box of 1000 condoms was not too impressed.

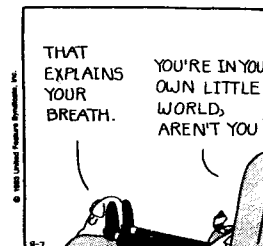
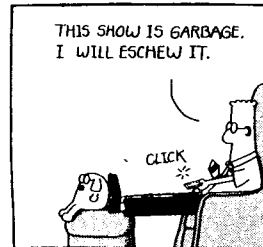
In the end, as the cross on Bible Peak disappeared behind the ferry into the pale mist, I realized that the adventure had just begun, and that I was (quite literally at the moment) inextricably bound to the people around me, and would be for many years to come.

continued from page 1

Pattatucci

that needs to be present to make a person gay.

Overall, Dr. Pattatucci was well-spoken, cautious, and very knowledgeable. She is still seeking members for her current studies. Information may be found at the Women's Center.



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Caltech Cross Country Team Off to a Quick Start

by Tom Dmukauskas

On September 18th, the Beavers travelled to Santa Barbara for their first meet of the year after only four full days of practice. The men led off the day by finishing 2nd among the five teams present, only beaten by a non-collegiate running club. Andy Zug and Jesse Shue finished 1-2 among collegiate competitors (4-5 of an overall 32). Chris Cary also raised some eyebrows in his debut by sticking with the phenomenally speedy Ron Steiger through the finish. The women's team followed up with a fine performance, finishing 2nd only to SCIAC powerhouse Whittier. Cailin Henderson whipped around two Whittier women in the last 200 m to take 3rd of the 26 finishers. Captain Ginger Garcia managed to place 10th despite having knee problems over the summer. Betsy Barton showed that summer training really does pay off when she obliterated her old PR by 1:30 and finished in 23:32. Gretchen Larson and Radhika Reddy picked up the slack



Team co-captain Ned Bowden and Schuyler Cullen work together to insure a team victory in the Lower Arroyo.

left by six graduating seniors from the '92 team and finished 15th and 18th, respectively.

The team hoped to equal these powerful performances at their home meet in Lower Arroyo Park last Saturday. This time, it was ladies first, and Henderson apparently liked the idea as she raced to a 22:02 on the 5k course which merited 4th place of the 36 participants. She was followed by Garcia in 7th and Tessa Miller, who showed her intestinal fortitude by finishing 13th. Larson and Barton rounded out the top five to give the women 3rd of five teams. The men were able to outdo even that, as they demolished the other 6 teams including arch-foe Cal Lutheran. Caltech was once again led by Zug in 4th, with a time of 29:47. However, the key to victory lay with the rest of the top five as they all finished up near the front of the 48 entrants. This supporting cast included Ned Bowden in 9th, Schuyler Cullen in 10th, Shue in 12th and Tom Dmukauskas who celebrated his 18th birthday with a 15th place finish.

Water Polo Improves, Falls

by Some Guy

Last weekend the Polo Team took part in the Pomona Pitzer Tournament. The two-day event pitted the Techers against two Division II and two Division III teams. This was also the first time Caltech played in a full 30 meter course.

In the first game, Caltech went up against nationally ranked U.C. Riverside. The team's speed proved to be too much for Caltech to handle, as the goalie tandem of Jamie Sherman and Hans Hornstein saw wave after wave of fast breaks coming their way. The final score was Riverside 16, Caltech 3.

Whittier came next, and they found good play by a fired up Caltech team. Pressure defense and some clever plays dreamed up by Coach Dodd put Whittier behind early in the game. Mike Greene pumped in two goals, one from long range that was worth two points. Mike Ng slapped in a man-up opportunity for a single goal. As the third quarter ended, Caltech still found themselves behind 9 to 11. Mad and confused, the Whittier coach pulled all of his starters and replaced them with fresh subs. This proved Caltech's undoing as a rash of fast breaks sealed Caltech's fate. The final score was Whittier 17, Caltech 9.

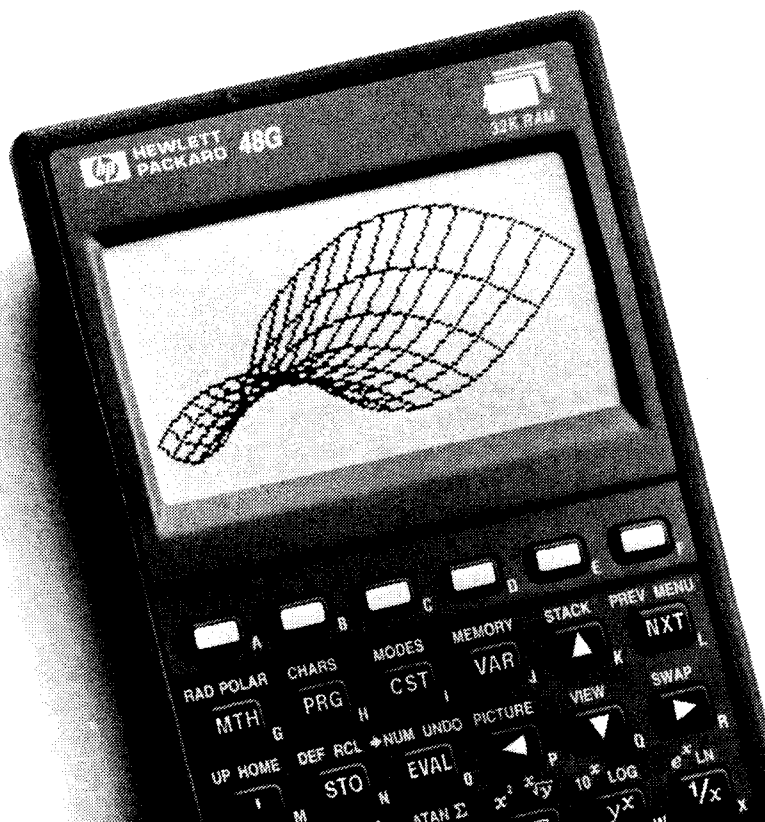
Up with the sun for a 7:45 game against Cal Poly San Luis Obispo, the Beavers played well again, stopping the fast break threat and putting some points on the board. Caltech out-shot S.L.O., but many shots went wide of the cage. San Luis Obispo inched ahead each quarter, and won in the end, 16 to 4. Scoring for Caltech were Chris Buchner and Mike Greene, both with 2 goals.

The last game saw a tired Caltech team going out against a tired Chapman squad. Play was ragged, except for the goalies and Sookatoo Bhuta. Near the end of the fourth quarter, all the subs got to play, and did a good job moving the ball and playing a solid man-down defense. Chris Buchner, Mike Greene, and Jason Hong each scored one goal. The final score was Chapman 18, Caltech 3.

"This year's Caltech Water Polo Team is young, with only one senior starter from last year's team. We will be taking our lumps early in the season, with hopes of upsetting a few opponents later on," reports Coach Dodd.

Next week, Caltech will be opening their home stand with the annual Caltech Classic Tournament. Tech will be hosting Occidental College at 9:00 a.m. and San Diego State at 1:15 p.m. Saturday. Sunday's games will be determined by Saturday's results.

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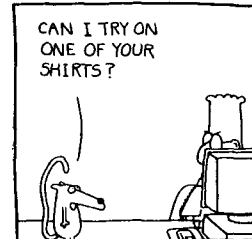
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Frosh Camp Photo Album



Caltech Music Director Paul Shaffer discusses the Institute's music program with several freshman.*



At frosh camp, the freshmen learned the finer points of many Caltech traditions, including the Honor System, bad food, and glomming.



Upperclassmen Kevin Kraft and Fred Caldwell give U2 a run for their money with their rendition of "Mysterious Ways."



A group of frosh throw ASCIT President Moeen Abedin into the ocean.

*Apologies to professor Hilbert.
Photos by Aron Rempel.

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Bridge Without Sam

by Jeff Goldsmith

Full Speed Ahead

Playing in a regional pairs event where everyone has at least 1500 masterpoints, we come to the table of two internationalists, well-known for their lightning-quick play. We reach 3NT on an uncontested auction and I see:

♠ AQ824
♥ 43
♦ AKQ
♣ K43

| | | |
|---|---|---|
| N | | E |
| W | | |
| | S | |

♠ 92
♥ A765
♦ 10854
♣ AJ8

NORTH SOUTH
1♠ 1NT
2NT 3NT
(All Pass)

West leads the ♥K and I see that 3NT is not cold. I have only seven tricks off the top and they have found my weakness immediately. I shall duck a few hearts and see what happens. On the first heart, East follows with the 2, but on the second one, he pitches the ♦2. Surprise! West had ♥KQJ1098 and failed to bid. That doesn't bode well for the spade finesse, but I shall need to get spade tricks to make this, so I win the second heart and play a small spade to the Jack, Queen and King. East wins and exits a low diamond to dummy; West following with the beer. I'd like to play the other from my hand, just in case East began with ♠J10x, but I can't believe that she'd not play low from that holding. Could she have a stiff Jack? If so, I should play low to my Nine and set up four sure spade tricks. She didn't play the ♠J in tempo, though, so I think she really has J10 doubleton. I don't want to damage my entries yet, so I cash the ♠Q. Fortunately, both follow, but with low cards. I continue with a high spade and East wins while West and I pitch hearts. East continues with another diamond and I follow low and West pauses.

Since bridge is played at blitz speed at this table, she must be showing out, but, to be sure, I ask "are you out-showing?" She nods and I claim on the double squeeze. We have time to get a Coke.

In the hallway, I note to partner that a club shift by East would have broken up the endposition. Perhaps he should have played more slowly.

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

A class for beginners is held Wednesdays beginning October 6th at 7:30 in 74 Jorgenson. Free textbooks and t-shirts will be given to everyone in the class. Winter term subject is "Bidding."

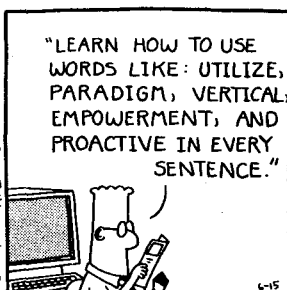
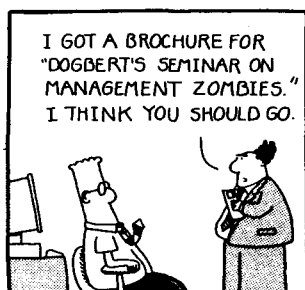
ASCIT Party Update

by Anandi Raman

Salutations, this is your amicable vicinity ASCIT Social Director here to tell you about the superb ASCIT parties this month. On October 2, which happens to be tomorrow, the first official ASCIT party will be at Winnett Lounge from 10 P.M.-2 A.M. Come and meet new people, eat our food, and quaff our POTables! It'll be groovy, I assure you!

And as if one party wasn't enough, the Annual ASCIT Halloween Party and a Half will be held on Saturday, October 30, at Dabney Gardens! Dress up in a keen costume and enter our contest and win big prizes! Not to mention fame and fortune. The party will be 10 P.M.-2 A.M. So come and make merry!

By the way, if you're interested in helping me plan/execute these and other ripping social events, please contact me at MSC #232, or x3691! I look forward to hearing from you. This goes for you frosh and the upperclassmen!



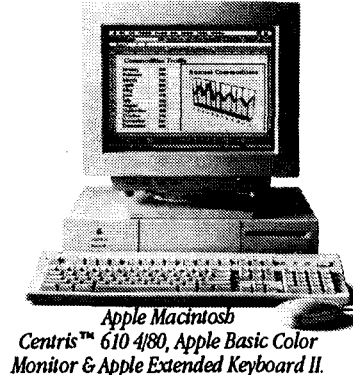
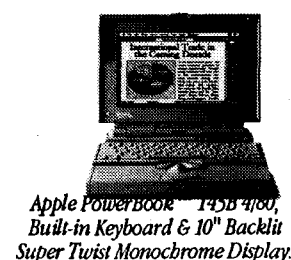
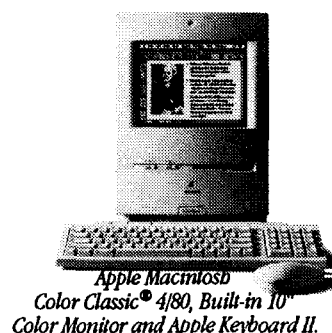
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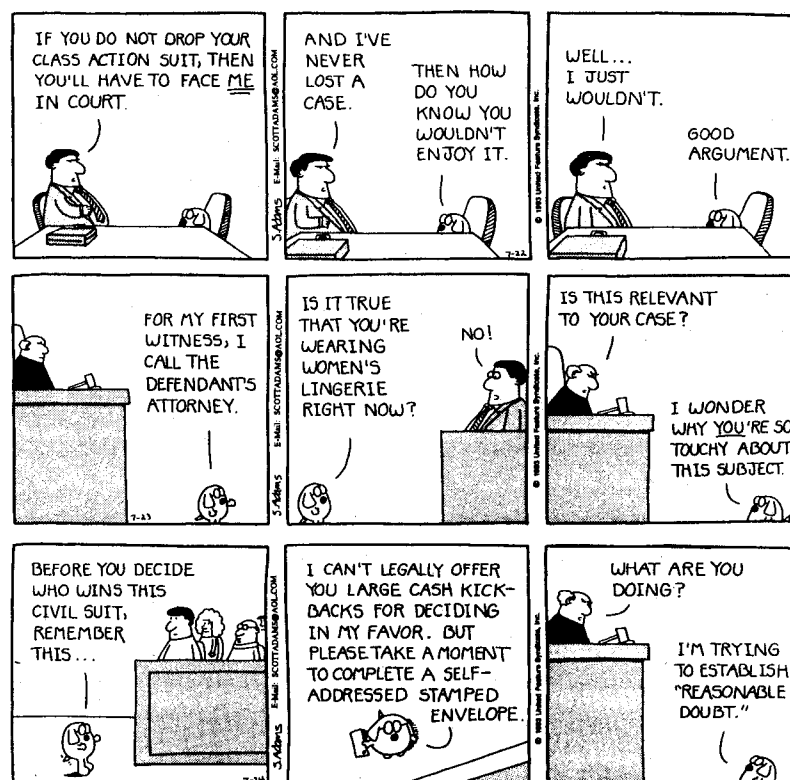
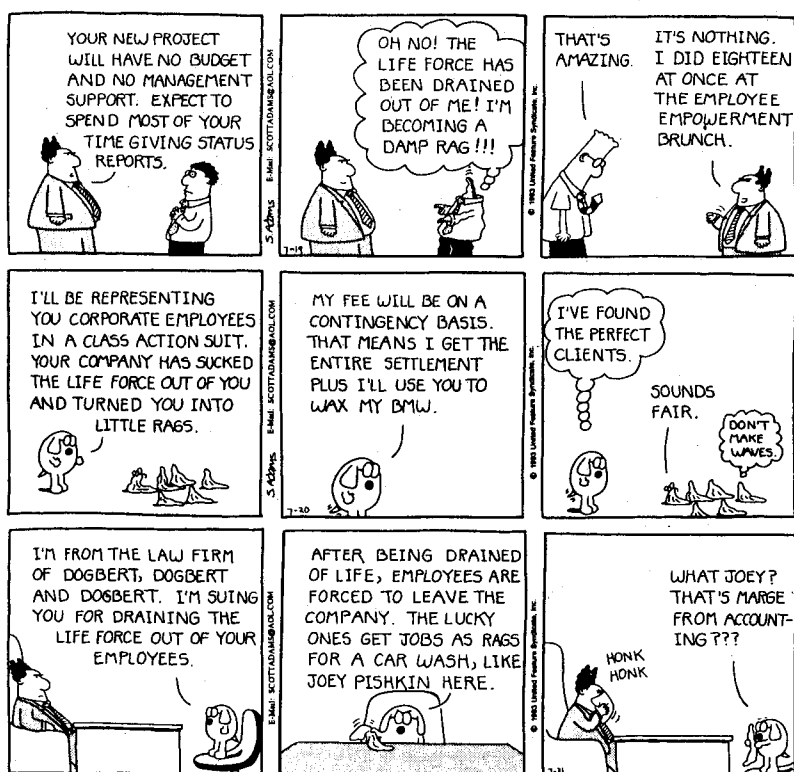


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Pink Triangles and Freedom Rings

by Jonathan Baker, Vicki Brown, and Rich Chin

It's one of the popular phrases passed from year to year: "Frosh, get a CLU!" That's right, CLU, as in the Caltech Lesbighay Union. Previously known as CLAGS, the Caltech Lesbian and Gay Society, we've changed our name to be explicitly inclusive of bisexuals.

Along with the name change, the group has taken an increasingly active role to promote visibility and awareness of issues concerning the gay, lesbian, and bisexual members of the Caltech community. Several CLU members participated in the 9th annual AIDS Walk Los Angeles held at Paramount Pictures in Hollywood on September 19th. Attended by nearly 20,000 people, this 10 km walk raised over \$2.9 million for the support and treatment of people living with AIDS in the L.A. Area.

Gay men can be particularly hard-hit by AIDS; recent research has shown that they are 8 times more likely to develop Kaposi Sarcoma than anyone else with AIDS. CLU, in conjunction with NOGLSTP (the National Organization of Gay and Lesbian Scientists and Technical Professionals), recently sponsored a lecture on the subject by Dr. Angela Pattatuchi (see accompanying article), whose group is foremost in researching the link between genetics, homosexuality, and health. With the success of these and other events, we've been encouraged to plan more activities, including some for National Coming Out Day (Oct. 11). If you're interested in helping plan any of these activities, regardless of your sexual orientation, write CLU at Mail Code 104-58, or contact any member.

(Complementing the sociopolitical activities of CLU is a different group, the confidential discussion group that offers support for those who are questioning or affirming their sexual identities. This group meets independently of CLU, and is facilitated by the Health Center. Contact Jon Pederson for more information at x8331.)



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DON'T FEEL BAD, RAQUEL. I DON'T THINK HE MEANT IT AS A PERSONAL ATTACK.

SOMETIMES I THINK I'M NOT REACHING MY FULL POTENTIAL AS A RAT.

YOU'RE RIGHT. IN THE MIDDLE AGES, DISEASE-CARRYING RATS WIPED OUT HALF OF THE HUMAN POPULATION OF EUROPE.

I THINK I'VE GOT A LITTLE TEMPERATURE. FEEL MY FORE-HEAD.
FACE IT, YOUR GLORY DAYS ARE PAST.

Jim's Journal

by Jim

Today I was sitting at the table eating a sandwich.

Mr. Peterson jumped up on the table, looked at me, then walked up on my shoulders.

She got comfortable and just sat there for a while.

When I was done eating and started getting up, she jumped off and ran into the other room.

I sat around and watched TV today.

After a while I got bored with the TV so I turned it off.

While I sat there, I started to feel like I was floating.

Today I sat on a bench and ate an apple.

It was a nice sunny day and a lot of people were outside.

Someone with a little girl walked by me and the girl was looking at me.

Then she smiled and tried to hide behind her mom so I couldn't see her.

At the copy store today I was just cleaning up stuff around the floor.

I had to empty the trash, too.

It was really sunny outside, and with all the windows in the copy store, it was really bright in there.

I looked at Hal, who was helping a customer. The sun was shining onto the back of his head and his ear looked bright orange.

Today I was getting something to drink from a pop machine with Tony.

I put my money in and the can came right out.

Tony put his coins in, pushed the knob, and nothing happened. "Oh no!" he said.

Then, after a couple seconds, the can came tumbling down. "Whew!" Tony said.

I walked into my apartment today and Mr. Peterson came running towards me.

I held out my hands and said, "Hi, Mr. Peterson, come here."

She ran right under me and into the hall.

I tried to coax her back inside, but she liked being out in the hall a lot better.



If not for your sake,
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It's a harsh world out there, and it isn't getting any better. You can help. You can **WRITE FOR THE TECH.**

We need writers, photographers, reviewers, artists, and dancers. No matter what your talent, we can use you. For more information, come to our weekly meeting in the Coffeeshouse at 12:15 P.M. on Friday.

lechner



by Lechner

ynews

Sam Webb

Welcome to Tech! Once again another year has begun and the Caltech Y is ready. If you're already sick of classes, here are the Y sponsored events o' the week. Friday, October 1 is the International Focus Party in the Y lounge from 4:30 to 8:30. This Sunday, October 3, Gail Watson, an artist who works at JPL will have some of her art on display in Dabney Lounge, beginning at 7 P.M. Next week, on the 8th, the Guitar Trio will be performing in Dabney Lounge at 8 P.M. If you need more information about any of these events contact Chris at the Y, x6163. Also, if you're interested in getting involved with community service, come talk to the Y. Positions are available for both volunteer and work-study. Enjoy rotation and see y'all next week.



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COZY BUNGALOW STUDIO APARTMENT, 1718 Huntington Drive (near Marengo), South Pasadena, partially or full furnished, utilities paid. \$500-520/month. Call Ray at x6331 or (818) 792-9053 (home).

FOR SALE-

CALTECH PROFESSOR'S DREAM HOME! Reduced! English style, 2-story, 4-bedroom, 3-bathroom, with study. 100x150 lot. Quiet rose garden, many fruit trees. 1535 Oakdale St., Pasadena. Call Daniel at (818) 288-1396 for appointment. Hurry! Won't last.

FURNITURE-

SOFT, CLEAN 6-FOOT COUCH - 1 1/2 years old, in good condition. \$250 negotiable; call Hillary at (818) 584-5809 and leave a message.

LOST-

GOLD BALL last seen hanging from the ceiling in Beckman Auditorium. Anyone with information should call Ram Basu in Public Events at x3667.

ROOM FOR RENT-

WOMAN TENANT WANTED. \$300/month, includes water, electricity, gas, laundry, central heating and air conditioning. 456 N. Myrtle Ave., Monrovia. Call Daniel at (818) 288-1396.

SERVICES-

CHIROPRACTIC CARE: Neck, low back, TMJ pain, headaches, sports, work, auto injuries, rehabilitation & nutrition. Personal & attentive care. Dr. Apardian, Chiro & Sports Care Center, Thatcher Medical Building, 960 E. Green St., Suite L-11, Pasadena. (818) 796-6779. Special discount for all Caltech associates.

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.

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| <h3>Canon</h3> <h4>VESA Local Bus 486DX-33MHz</h4> <ul style="list-style-type: none">- Pentium Overdrive Ready- 4MB Ram up to 68MB- 170MB IDE Hard Disk- 1.2MB & 1.44MB Floppy- 14" SVGA 1024 x 768 (.28)- VESA LB SVGA w/1MB- 9600 Fax/2400 Modem- 101 keyboard- Logitech mouse- MS DOS 6.0- MS Window 3.1- MS Works <p>1 Year On-site Service</p> <p>\$1650</p> <p>486DX2-66MHz</p> <p>\$1900</p> | <h3>COMPAQ</h3> <h4>Prolinea 4/33 486DX-33MHz</h4> <ul style="list-style-type: none">- 4MB Ram up to 32MB- 120MB IDE Hard Disk- 1.44MB Floppy- 14" SVGA 1024 (.28)- VESA Local Bus Video- 101 keyboard- Compaq mouse- MS DOS 6.0- MS Window 3.1 <p>Three Year Warranty 1 Year On-site Service</p> <p>\$1699</p> <p>486DX2-66MHz</p> <p>\$1950</p> | <h3>C:M</h3> <h4>VESA Local Bus 486DX-33MHz</h4> <ul style="list-style-type: none">- Pentium Overdrive Ready- 256K Cache- 3 VESA LB Slots- 4MB Ram up to 32MB- 212MB IDE Hard Disk- 1.2MB & 1.44MB Floppy- 14" SVGA 1024 x 768 (.28)- 32 Bit VESA SVGA w/1MB- 32 Bit VESA IDE Controller- 101 keyboard- Mouse <p>1 Year Parts & Labor Warranty</p> <p>\$1345</p> <p>486DX-50 \$1515</p> <p>486DX2-66 \$1595</p> |
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NOTEBOOK SPECIAL

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| <h3>Canon NoteJet</h3> <h4>Built-in BubbleJet Printer Two-in-One Next Generation</h4> <ul style="list-style-type: none">- 486SLC-25MHz- 4MB Ram up to 12MB- PCMCIA II Slot- 80MB Hard Disk- 1.44MB Floppy- Built-in BubbleJet Printer- 360 DPI- Automatic Sheet Feeder- Canon Hand Held Trackball- MS DOS- MS Window 3.1 <p>1 Year Factory Roadside Service</p> <p>\$2199</p> <p>W/185MB \$2599</p> | <h3>EPSON Action Note</h3> <ul style="list-style-type: none">- 486SLC-33MHz- 4MB Ram up to 8MB- 9600Fax/2400Modem- 10" LCD Mono. Screen- 120MB Hard Disk- 1.44MB Floppy- Logitech Trackball- Carrying Case- MS DOS 6.0- MS Window 3.1 <p>1 Year On-site Service</p> <p>\$1649</p> | <h3>MITAC</h3> <ul style="list-style-type: none">- 486SLC-33MHz- 4MB Ram up to 18MB- 10" LCD Mono. Screen- Removable 120MB HD- 1.44MB Floppy- 5.5 LBS- 100-240V full range <p>1 Year Factory Warranty</p> <p>\$1399</p> <h3>Bondwell</h3> <ul style="list-style-type: none">- 486SLC-33MHz- 4MB Ram up to 12MB- 10" LCD Mono. Screen- 9600Fax/2400Modem- 120MB HD- 1.44MB Floppy- 4.7 LBS- Carrying Case <p>International Warranty Over 30 Countries</p> <p>\$1499</p> |
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| <h3>SyQuest</h3> <p>105MB Removable Cartridge Disk Drive Kits</p> <p>by Mitac offer unlimited storage capacity and are extremely cost effective. The SyQuest 105MB cartridge drive features a 14.5ms seek time and data transfers>1MB/Sec. Kit includes everything you need: Interface card,Cables (1)105MB Cartridge</p> <p>Int. \$450 Ext. \$499</p> | <p>Conner 250MB Tape backup W/3M Tape \$195</p> <p>Mitsumi CD 340ms \$195</p> <p>Sony CD 370ms \$195</p> <p>NEC 84 CD 280ms \$470</p> <p>Toshiba 3401 200ms \$495</p> <p>Ask our sales rep for Maxtor, Western Digital, Conner,..... Hard Disk price !</p> | <h3>Canon</h3> <p>BJ-200 \$289</p> <p>BJ-10ex \$245</p> <p>BJ-230 \$396</p> <h3>EPSON</h3> <p>Action 1500 \$650</p> <p>LQ-570+ \$245</p> <p>LO-1070+ \$395</p> |
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* Note: asterisks indicate new announcements.

Notices

* **The Flying Karamazov Brothers** will present their production **"Juggle and Hyde"** on Friday, October 22, at 8:00 P.M. in Beckman Auditorium. Tickets are priced at \$27.50, \$25.00, and \$22.50. Caltech students (with I.D.) can purchase half-price tickets in advance and Rush Tickets for \$7.50 beginning Friday, October 22 (subject to availability). Caltech faculty and staff can also receive discounts on tickets bought in advance or on Friday, October 22. Tickets can be purchased at the Caltech Ticket Office, located just north of the Beckman Auditorium parking lot. Call x4652 for information. Individuals with a disability should call Deborah White, x4688 (Voice) or x3700 (TDD) Monday-Friday for information and assistance.

* **Elizabethan Events**—Caltech Public Events' 1993-94 season opens on Saturday, October 16 with an Elizabethan fair at 4:00 P.M., followed by the California Shakespeare Festival's contemporary production of *Hamlet* at 8:00 P.M. in Beckman Auditorium. Tickets can be purchased at the Caltech Ticket Office.

* **J. Ernest "Jerry" Nunnally** has been named Caltech's new assistant vice president and director of development, following a national search. Nunnally will assume his new responsibilities in October.

* **The Emerson String Quartet** will give a Coleman Chamber Music Concert on Sunday, October 17 at 3:30 P.M. in Beckman Auditorium. Fifty free tickets to this concert are available to Caltech Students with I.D. (limit two free tickets per I.D.). Tickets available at the Caltech Ticket Office beginning Tuesday, October 12.

* **The Chamber Orchestra at S. Matthews**, conducted by Thomas Neenan, will perform on Sunday, October 10, at 3:30 P.M. in Dabney Lounge. The concert is open to the public, free of charge.

* **Items found at fresh camp**—The Deans' Office has a blue and white sleeping bag and a pair of Nike tennis shoes that were turned in from Camp. Please come to Room 102, Parsons-Cates Bldg. to inquire.

* **The Caltech Men's Volleyball Club** is holding its first practice on Tuesday, October 5, from 8-10 P.M. in the Brown Gym. The team participates in tournaments throughout the area, and will be training for USVBA competition in the spring. If interested, please contact Mike Burl (burl@systems.caltech.edu) or Rich Chin (rchin@cco) for more information.

* **S.P.E.C.T.R.E.**, the Caltech Science Fiction Club, is holding its first meeting Wednesday, October 6th, 7:30 P.M., in Room 35 of the Student Activities Center. Our featured movies will be *Lawmower Man* and *Freejack*. Everyone is invited; no charge if you give us no static. Please contact Gorm at 577-0860 or spectre@cco with any questions.

* **The Women's Glee Club** is still accepting new members. Don't miss this opportunity to sing renaissance and baroque music accompanied by early instruments, including the J.S. Bach Cantata 191. Stop by the Women's Glee Club office in SAC 2 any time after 7:00 P.M. on Monday, October 4, or after 4:00 P.M. on Wednesday, October 6. Call Heidi Sutton, President at 578-9886 or the Glee Club office at x6260 if you have questions.

* **Work for the MOSH**—Need some extra \$\$? We have a job for you. Help the Master of Student Houses, David Wales, entertain students and faculty at the Master's House. Great benefits!

Events and Notices

See Amy in the Residence Life and Master's Office for more details.

* **The Residence Life Office** is looking for reliable students to work part-time in our office (work study preferred). The position includes answering phones, running errands, and helping with various projects. Please see Amy in the Residence Life Office for more information.

* **Caltech Alpine Club Meeting and Slide Show**—On Tuesday, October 5th, 7:30 P.M. in Winnett Clubroom #1, there will be a slide show by Wim Burnmeister entitled *From the Desert to the Snow: Discovering Southern California on Skis*. Refreshments will be served.

* Caltech's **"Rideshare Fair '93"** will be held on Wednesday, October 6, 1993, 11:30 A.M. until 1:30 P.M. on the patio east of the Keith Spalding Administration Building according to Wayne Strong, Director of Personnel Services. The Fair will promote California's "Rideshare Week" (October 4-8) and "Rideshare Day" (October 7).

* **"Tigris Expedition"**—On Friday, October 8, 1993, Norman Baker will narrate this Armchair Adventures travel film, which follows the voyage of the "Tigris" from the Persian Gulf to the Horn of Africa. Tickets at the Caltech Ticket Office.

* Fall Term **Guitar Classes** start Tuesday, October 5 in the Student Activities Center Room 1 for beginning, intermediate, and advanced guitar players. Lessons are free to Caltech students. For information call Darryl Denning at (213) 465-0881.

1993-94 H&SS Course Schedules—Schedules of courses expected to be taught in the Humanities and Social Sciences during the 1993-94 academic year are available in 228 Baxter.

Events & Services

* **Adult Children of Alcoholics**, 12-step group meets on campus every Tuesday from 12 noon to 1:00 P.M., in Spalding Lab room 114. This group is open to any student, staff, or member of the faculty who grew up with family alcoholism and other problems. For more information call Dinah Lee Schaller at 395-2961 or 395-8331.

* **Caltech Alpine Club "Sit and Chat"**—Bring a sack lunch to the patio outside the north end of Keck Laboratory on Wednesdays from 12 to 1. Talk about mountains, the weather, and outings, past and future.

Pasadena Folkdance Co-op—September is Learning Time Again! Come Learn International Folk Dance! Learn Folk Dances from other lands such as Japan, Bulgaria, Greece, Scotland, China, Armenia, Israel, Lebanon, etc. every Friday evening. The Pasadena Folkdance Co-op invites community members to join the club at Throop Unitarian Church at the corner of Los Robles and Del Mar where you will receive beginning and intermediate dance instruction at 7:45 P.M. followed by a brief break at 9 P.M. You are invited to continue dancing until 11 P.M. To protect the wooden dance floor, we ask all to use soft soled shoes. A \$1.50 contribution is requested of all participants.

Pasadena YWCA Rape Crisis Center—Survivor Support Groups Forming (Adult Survivor, Adolescent Survivor, and Adult Survivor of Child Sexual Assault). The goals of the groups are: to reduce feelings of isolation, empower women,

expose myths about sexual assault, and enable members to build support systems. These are peer-support groups, and do not profess to be "therapy groups," but therapy and healing do occur. Cost is FREE; nominal donations are accepted but not demanded. Contact the YWCA Rape Crisis Center at (818) 793-5171.

The Caltech Gay/Lesbian/Bisexual Support Group meets the first and third Tuesdays of each month in the Health Center Lounge. This confidential meeting is open to all Caltech community members looking for a supportive context in which to address questions and concerns about sexual orientation including coming out, being out, self-discovery, coping with families... We begin with a focus topic but move to whatever is feeling most relevant to the group that night. Refreshments are served. For information, call 356-8331.

Pasadena YWCA Rape Crisis Center—Self Defense for Women. Classes held monthly. Saturdays from 12:00-4:00 P.M. September 25, October 16, November 6. \$25 per session (Sliding Scale, no woman turned away for lack of funds).

Big Brothers Needed—Now that summer's over and school is back in session, the fatherless boys on our waiting list need a friend who can help them hang up their beach gear and ease into the first days of school. You can be that friend. You can be a Big Brother. To learn more about becoming a friend to one of these boys from father-absent homes, men 18 and over are invited to attend an orientation meeting. For information contact Mary Langford at Big Brothers of Greater Los Angeles at (213) 258-3333. Big Brothers of Los Angeles is a private, non-sectarian agency that matches a fatherless boy with an adult male volunteer to become the boy's role model and friend.

Caltech Y ExComm Meeting—The Y invites anyone who wishes to co-sponsor an event to attend on the first or third Monday of each month.

Caltech Hillel/Jewish Community Weekly Meeting—An informal gathering, every Thursday at noon in the Y lounge. For information call Caty Konigsberg at (213) 259-2950.

* **Friday Prayer**—Prayers organized by Caltech Muslim Students are held in the Caltech Y lounge at 12:30 P.M. every Friday.

Mass—Thursday at 8:15 A.M. in the Y lounge and Sunday at 10 A.M. in Winnett lounge. Sacrament of Reconciliation (confession) is given 20 minutes before masses. Refreshments are served after mass.

Bible Study and Discussion—Every Wednesday at noon in the Y lounge. Bring your own lunch. For more information call Mike Gerfen at 356-4886.

OpenLine—Are you interested in meeting friendly and caring people from a wide variety of backgrounds? Open Line is a group made up of students, staff, and faculty from many different departments on campus, and from a variety of ethnic and cultural backgrounds. We are both an action group and a discussion group. We discuss topics related to people's well being and share information on our different backgrounds, and we sponsor activities that bring people together, keep people informed, and help out people in need. We welcome everyone's views and ideas,

and encourage people to drop in whenever they can. Our agenda is very flexible and is solely determined by what people in the group suggest. So if you want to get yourself out of your lab, textbook, or office for a little bit of and broaden your experience at Caltech, drop by any meeting and say hello! We meet from noon to 1 P.M. on Tuesdays in the Y Lounge (2nd floor Winnett, feel free to bring your lunch!). Remember, we ALWAYS welcome new people, at any time of the year. Hope to see sometime! For more information contact Gary Mines at x6542 (gam@xhmeia.caltech.edu).

Baby Furniture Pool—The Caltech Service League loans out baby furniture to students and postdocs on Wednesday at 324 S. Chester from 10 to 11 A.M. For more information call 952-1631.

Israeli Folk Dancing—Sundays in Winnett lounge. Beginning instruction starts at 7:30 P.M., intermediate at 8:00 and open dancing goes on from 8:30 to 10:30. For information call Nancy Macmillan at 795-3655. Admission is \$2.00.

Scottish Country Dancing—On Wednesdays in Dabney Lounge from 8 until 10 P.M. Beginners are welcome and no partners are needed. For more information call David Hills at 354-8741.

Music with James Boyk—Pianist James Boyk gives a performance each Wednesday from 4:30 to 6 P.M. in Dabney Lounge. The performance is open to the public and free of charge. Feel free to come late or leave early. For more information call x6353.

Lectures

* **The talk by M. Sacirbey**, the Bosnian Ambassador to the U. N. which was originally scheduled for this Saturday, Oct. 2 in Baxter Lecture Hall has been postponed due to extenuating circumstances. The new date will be announced later.

Redefining Femininity: The Checkered Career of Mme. Du Châtelet—Mary Terrall, a visiting scholar at UCLA, will speak on Wednesday, 20 October 1993 in the Judy Library at 4:00 P.M. There will be refreshments.

Scholarships, Internships, & Competitions

For information on the following scholarships, please contact the individuals listed at the end of each scholarship.

* **The 54th Annual William Lowell Putnam Mathematical Competition** will be held on Saturday, December 4, at 8:00 A.M. The competition is open to regularly enrolled undergraduates, in colleges and universities of the United States and Canada, who have not yet received a college degree. No individual may participate in the competition more than four times. Various prizes are awarded, including the Elizabeth Lowell Putnam Prize to be awarded to a woman whose performance on the competition is deemed particularly meritorious. Sign up in Sloan by October 11. "As usual we hope many participants will enjoy a day of math problems and donuts."

* **66 Fellowships** will be awarded by the Howard Hughes Medical Institute for full-time study toward a Ph.D or Sc.D. degree in the biological sciences. Awards are for three years, with extension possible for two additional years of full support. Fellowship awards provide an annual stipend of \$14,000 and a \$12,700 annual cost-of-education allowance. For more information or for

copies of the Program Announcement or Application, call (202) 334-2872 or write to the Hughes Fellowship Program, The Fellowship Office, National Research Council, 2101 Constitution Avenue, Washington D.C. 20418.

* **The Northrop Corporation** is offering two \$3,000 scholarships at Caltech for the 1993-94 academic year. The scholarships are available to students enrolled full time as freshmen through seniors in Electrical, Mechanical, Aerospace, Computer Science, or Manufacturing Engineering. Applicants must be U.S. citizens and may be a concurrent recipient of another company's scholarship. Resumes and transcripts must be received by the Financial Aid Office at 515 S. Wilson by 5:00 P.M., Friday, October 22nd, 1993.

* **The Data Processing Management Association** is offering two scholarships for \$1,000 each provided by the Bert A. Monaghan Scholarship Fund. Applicants must have financial need and have made Computer Science their major career goal. The Scholarship Committee must receive the application by November 19, 1993. Talk to the Financial Aid Office for more details.

* **The American Society of Mechanical Engineers (ASME)** Loan Program has begun for full-time students enrolled in the 1993-94 academic year. Applications must be post-marked no later than October 20, 1993. All applicants will be notified in mid-December 1993 whether or not they have been selected to receive a loan for the 1994 Spring term.

Summer 1994 Internships—The *Sacramento Bee*, a 263,000 circulation McClatchy newspaper offers summer internships in reporting, sports, copy editing, photojournalism and infographics. The internships are full-time for 12 weeks and pay \$375 a week. Interns are responsible for their own housing. Reporting interns will do rotations in metro, business, and features. Sports interns will spend time writing as well as working on the sports copy desk. Copy editing, photo and infographics interns will assume regular shifts in their departments. Applicants must be working toward a college degree or be recent college graduates.

Apply by December 1, 1993. NEWS and SPORTS REPORTERS and COPY EDITORS should send a cover letter, resume with three telephone references and up to 10 clips demonstrating a range of work including headlines for copy editors. Mail materials to: Editorial Internship Director, The Sacramento Bee, P.O. Box 15779, Sacramento, CA 95852. PHOTOGRAPHERS should send a cover letter, resume, three references and 20 to 40 slides or prints. Mail materials to: Mark Morris, director of photography, The Sacramento Bee, P.O. Box 15779, Sacramento CA 95852. (Samples will be returned for photography applicants.) GRAPHIC ARTISTS should send a cover, resume, three telephone references and photocopies of 10 to 20 work samples. Mail materials to: Cynthia Davis, editorial art director, The Sacramento Bee, P.O. Box 15779, Sacramento, CA 95852. (Samples will be returned for graphic art applicants.)

United States Department of Energy Integrated Manufacturing Pre-doctoral Fellowships—The United States DOE is offering twelve three-year fellowships for study toward the Ph.D. degree. Eligibility is limited to citizens, nationals, and permanent resident aliens of the United States, who will have received a master's degree by the fall of 1994, but evidence of equivalent post-baccalaureate professional industrial experience may be offered by the applicant in lieu of the master's degree. There is a stipend of \$20,000 per year, and up to \$15,000 per year will be provided toward tuition and fees. Selection is merit based. Contact: Fellowship Office, National Research Council, 2101 Constitution Avenue, Washington, D.C. 20418, or call (202) 334-2872. Initial application date is November 5, 1993.

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