

C Ya

CALIFORNIA THE TECH

George!

Volume XCIV, Number 6

Pasadena, California

October 30, 1992



Caltech voters take to the polls on Tuesday in Winnett Lounge. For a summary of the outcome of many of the major races in this area, see the article on page 2.

Caltech's First Annual Security Report

Kathryn Tao

Jim Minges, Director of Business Services.

Prompted by the entry of new federal and state laws, Caltech released its first annual report on the status of campus security in late August.

"Under the Student Right-to-Know Act of 1990 (formerly Senate Bill 580) and two other state laws (AB 3098 and AB 3918), all major schools are now required to file annual security reports," said

Through the act, colleges and universities must prepare, publish, and distribute to all students, employees and faculty, statements listing crime statistics and outlining provisional and current security policies and programs.

The reports, however, function as an informative measure rather than a basis for comparison of security between campuses.

"A lot of people are going to try to compare [reports] and Caltech will turn out fairly safe. Yet, it's not fair to make a direct comparison to other schools," Minges said. "Schools survive in different environments and have different student bodies and policies."

Regardless, the report provides a realistic overview of security on campus, Minges said. "We report everything we find."

"After reading the report, I was comforted by the fact that the crime statistics were quite low and that very few of the crimes reported were violent," junior Paul Ainsworth said.

"I'm shocked that the crime rate has increased," sophomore Al Ratner said.

For the 1991 fiscal year, the report reveals an increase in crime, citing 11 incidents of motor vehicle theft, six cases of burglary and three cases of robbery.

Improvements in security include the installation of twelve "push to talk" emergency phones, the establishment of a campus Committee for Security, expanded escort service, a Neighborhood Watch Program in conjunction with the Pasadena Police Department and a "lock your bike" program.

The largest response came as the 100 pound Phred was hoisted over Millikan, landing with a tremendous boom. As the crowd dispersed, the frantic pumpkin crew unleashed one last surprise—the remaining LN₂.

The drop was followed by a heroic clean up effort by the pumpkin crew. Because of their dedicated work, the long-awaited event was not only successful, but clean.

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CALIFORNIA TECH

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Pres(elect)
Bill



VP(elect)
Al

Skeptical Society's Halloween Seance

Steven Sobleman

Last Saturday, on Halloween, skeptics from around the Los Angeles area filled Baxter Lecture for the latest in the series of lectures sponsored by the Skeptics Society, mentalist Mark Edward's tongue-in-cheek attempt to get in touch with the spirit of magician Harry Houdini through a seance. Edward is a full time magician and "psychic entertainer," teaches classes at Torrance C.C. and owns the world's only "fully levitating" performing dog.

Houdini died on October 31, 1926, and, although he himself was skeptical about the existence of life after death, a seance was held each year on Halloween for the ten years after his death. Dr. Edward Saint, the medium at the final seance, was called upon by Edward to be his "spirit guide" for the afternoon.

After performing some tricks using mentalism on various members of the audience, he invited 12 people to join him at a table for the ceremonies. To get them in the mood, he guessed some obscure facts about three of them (he asked one to think of any place in the

world, she picked a secluded park, he guessed correctly), then placed a number of artifacts in front of some others to be watched during the seance: a small coil of rope, some dead rose petals in three layers of wrapping, a pocket watch which was closed and set to a random time, and a two small slates between which he placed a piece of chalk.

The participants joined hands, the lights went out, things went bump in the night (one of the ladies at the table even let out a nice shriek at the appropriate time). Mr. Edward let the spirits of Dr. Saint, Beatrice Houdini and Harry Houdini speak through him. It was clearly all in good fun.

When the lights were turned on, the artifacts were examined one by one. The rope now had "spirit knots;" the petals were unwrapped and discovered to have been changed to fresh ones; on one of the slates there was writing: the word "BELIEVE," the initials "HH," and the time 10:33. The watch was opened to reveal that it had been set to 10:32.

Afterwards, Mr. Edward said that all of the effects during the seance

Continued on page 10

TACIT's A Man For All Seasons To Open

David W. Hogg

Well, the Theatre Arts at Caltech (TACIT) company owes me one, since I sat through the entirety of the delayed, prolonged, and grueling rehearsal of their new production "A Man for All Seasons" on Wednesday night (and well into Thursday morning). The cast and production staff is nothing if not committed: Assistant Lighting Designer Jon McDunn told me that he had been working on the play "until around four in the morning the last few nights," and Eve Kiefer, Production Coordinator and cast as The Woman, was suffering from a fever and laryngitis because of the immoderate rehearsal schedule. The play opens its six-performance run tonight, and it certainly fits my "acceptable activity" criteria: It is inexpensive (four dollars if you are a Caltech student), and it is accessible without a car (the performances are in Winnett lounge).

The director, Shirley Marneus, asked me not to review the performance, since I saw an early, unpolished performance, punctuated by "notes," and clothed in an unfinished wardrobe (which, created by Mona Hamilton, looks like

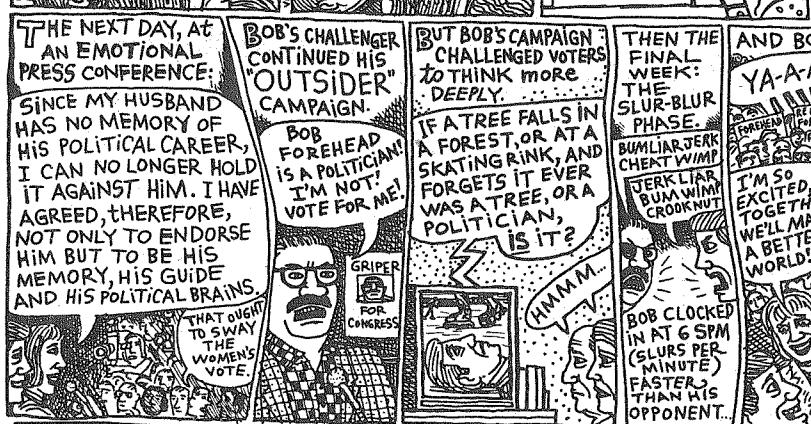
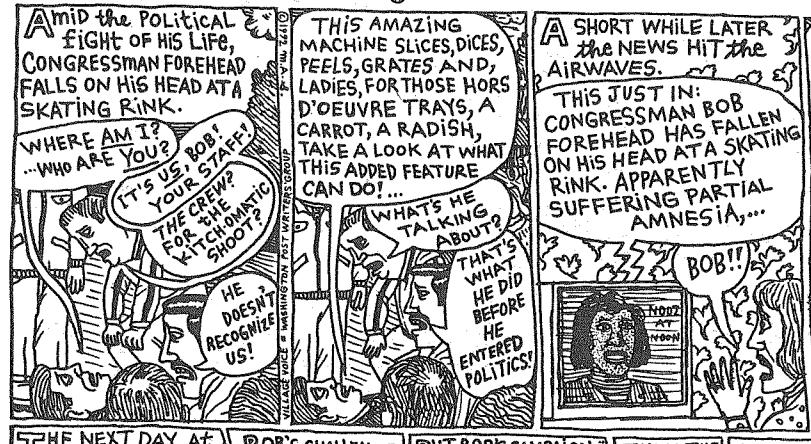
it is going to be beautiful). So, I will try to restrict my attention to the script, and only permit myself to comment on the production where I cannot restrain myself from giving praise.

"A Man for All Seasons", by Robert Bolt, is about the martyrdom of Sir Thomas More (played by Gary Olsen) when he refused to support the divorce of King Henry the Eighth (Rich Doherty) and the remarriage that bore King Henry a male heir. The King's religious as well as political position required him to secure the permission of the Pope in order to get a divorce. The permission was not granted by the Pope, and when the King decided to go ahead anyway, Sir Thomas, his religious advisor, refused to give the King his blessing. Coming from a respected English theologian, Sir Thomas's silence on the divorce embarrassed King Henry, and the King commanded his administrators, especially Thomas Cromwell (Todd Brun), to obtain from Sir Thomas either his oath of support, or his head. Sir Thomas refused to give the oath, and was executed for treason after a perjured trial.

The play has something for everyone. It is about the corruption

Continued on page 8

WASHINGTON.



Election Result Summary

Shane Sauby

The election is over. The votes have been counted and in most cases the winners have already been declared. Bill Clinton, the former Governor of Arkansas, is now the President-Elect. His running mate, Al Gore, from Tennessee, will soon be the Vice-President. Along with them will be a Democratically controlled Congress, with majorities in both the House of Representatives and the Senate. President Bush did receive 38% of the popular vote, but lost 349 to 132 in the Electoral College. Ross Perot, the billionaire independent, pulled in 19% of the popular vote, but was unable to get a majority in a single state. (He did, however, pull in over 25% in Alaska.)

This election also brought some firsts. The first African-American

woman was elected to the Senate. The first Native American was elected to the Senate also. And California, not to be left out in a year of firsts, is the first state to send two women to the Senate. Both Barbara Boxer and Diane Feinstein won their Senate races, and will now move onto Washington D.C. to represent California.

There were thirteen propositions on the California ballot also. Five of these passed, including the controversial term limit bill and the not-so-controversial snack tax repeal. California was not the only state voting on term limits though. Thirteen other states passed similar bills restricting the number of years a their Congressmen and Senators can serve. An interesting side note, though, is that 93% of the Congressional incumbents, still in their respective races, were re-elected.

There will be over a hundred new faces in the House of Representatives, but there will also be over three hundred old ones.

Two major California propositions went down to defeat. The right to die Bill, #161, was defeated by a 54 to 46 margin. Also, Pete Wilson's Budget reform Bill, #165, was also defeated by the same margin. Both were controversial. Proposition #165 produced one of the most expensive and heated debates, from newspaper ads to commercials. On the other hand, Proposition #161 was controversial, but had little outspoken support. Most political groups, including both major parties, tried to avoid the bill as much as possible. Also, Propositions #166 and #167 were both defeated.

Election Results

President Candidate:	Clinton(D)	Bush(R)	Perot(I)
National Results:			
Electoral:	370	168	0
%Popular	43	38	19
Votes	43,728,964	38,167,416	19,237,247
#States	32	18	0
California:			
%Popular	46	32	21
Votes	4,822,875	3,344,317	2,148,457

Senate - Two Year

Candidate:	Feinstein(D)	Seymour(R)	Horne(P)
%Popular	55	38	3
Votes	5,505,780	3,782,802	287,358

Senate - Six Year

Candidate:	Boxer(D)	Herschensohn(R)
McCready(A)		
%Popular	48	43
Votes	4,867,126	4,294,665

House - District 27

Candidate:	Moorhead(R)	Kahn(D)	Moorman(G)
%Popular	49	40	5
Votes	95,169	78,559	10,312

State Senate - District 21

Candidate:	Russell(R)	Dewey(D)	New(L)
%Popular	49	45	4
Votes	120,751	109,193	9,946

State Assembly - District 44

Candidate:	Hoge(R)	Fuhrman(D)	Saurenman(L)
%Popular	51	45	4
Votes	69,108	61,091	5,861

Measure O - Repeal Growth Management Initiative

Yes	53%	22,350
No	47%	19,755

Proposition #166 was an attempt to reform health care, while Proposition #167 would have increased taxes.

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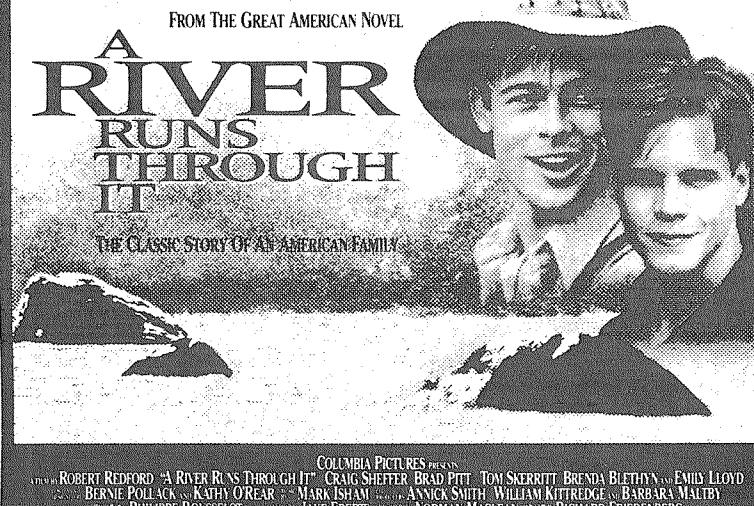
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Next Week: Basic Instinct

BATMAN RETURNS

SATURDAY NIGHT NAIR:
HEAVY METAL

Crime & Incident Beat

Stephen Heise

Crime Tip: Watch out! There has been a lot of daytime criminal activity lately.
10-30 The Coffee House start-up money disappeared. (\$160)

10-30 Two suspicious persons, one wearing a red wool cap, were found in the men's laboratory on the first floor of BBB. The building was searched and the people in it questioned, but no one stated seeing anybody matching the description.

10-31 A blue '91 Honda Accord was stolen from the Michigan lot. Broken glass was found on the ground where the car had been parked. (\$unknown)

11-1 A radio, wallet and several video tapes were stolen from a car in the Thomas-Spalding lot. The car had been left unlocked for at most two hours. (\$300)

11-2 The right rear window of a car parked near Central Plant was removed and the ignition switch inside pulled out. (\$150)

11-2 A person walking towards California Blvd on Arden Rd was approached by a male Hispanic, 5'4", 160-170 lbs wearing a multi colored T-shirt and shorts. The suspect feigned to ask directions while a female hispanic 5'2" came up from behind. She held an automatic pistol to his head and demanded his car keys. The male suspect removed the victim's keys and wallet and proceeded to enter the victim's car and start it. The male suspect stated, "This has a stick shift," and turned off the engine. The suspects fled on foot down Arden Rd. (\$50)

11-4 A PCC student parked just east of Caltech campus (Sierra Bonita Ave and Oakdale St) was eating lunch in her '83 Jaguar when she was approached by a man and a woman. One of them pointed a gun at her and demanded her car. The female suspect ordered the victim out and the suspects drove away. The police were called and they quickly spotted the car (west on California Blvd). The suspects fled the car on foot. Danilo J. Clemente, 18, of Los Angeles, was chased to a gas station where he was captured and found with a handgun. Maria Lourdes Garcia, 19, also of Los Angeles, was arrested about 30 minutes later when a resident reported someone hiding behind apartment building bushes near Marengo Ave and California Blvd. (From Pasadena Star-News)

Week Total: \$660 + one car

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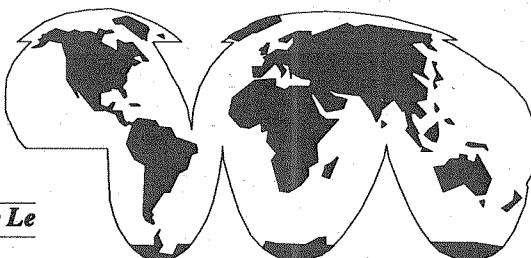
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World News



Huy Le

El Salvador

The leftist Farabundi Marti National Liberation Front guerrillas and the government of El Salvador have failed to comply with their deadline to end the country's 12-year civil war. The agreement called for the rebels to destroy their weapons and become a political party and for the government to clear the armed forces of human rights abusers, reform the electoral system and judiciary, and to provide land for war veterans. Also, the militarized police force would be replaced by civilians. Both sides have blamed each other for acting slow on the agreement.

Yugoslavia

Federal Prime Minister Milan Panic escaped being ousted from office by one vote in the upper house of Parliament. The lower house had moved to depose Panic by a 93-24 vote in response to demands by Serbian President Slobodan Milosevic, who many fear might employ more desperate measures to ensure that he stay in power.

Escalating violence and cash demands by Serbian rebels in Bosnia-Herzegovina is obstructing United Nations efforts to deploy peacekeeping forces. Serbian guerrillas are demanding a \$250,000 "security deposit" to let a hundred Canadian sol-

diers, instructed to secure aid deliveries, enter a Bosnian city. Attacks on French peacekeepers by Serbian forces have also been reported. Ensuing casualties might enrage Serbs and could prompt increased hostility toward the United Nations.

Angola

The United Nations arranged a cease-fire between the ruling Popular Movement for the Liberation of Angola (MPLA) and the National Union for the Total Independence of Angola (UNITA), where three days of fighting threatened to renew a 16-year old civil war, that has claimed 350,000 lives.

South Africa

Renewed violence erupted between Nelson Mandela's African National Congress and Mangosuthu Buthelezi's Inkatha Freedom Party, in a massacre that killed 20 people. The new wave of civil war has raised doubts among South Africans that the fighting will ever end to allow constitution negotiations that would give blacks a greater say in the post-apartheid government. The violence is a result of Buthelezi's belief that his predominantly Zulu party is being cut out of negotiations with De Klerk's government in favor of the ANC.

Somalia

The United Nations replaced its chief representative in Somalia, a

move that could upset a famine relief effort that is already almost at a standstill. This act could mean hundreds of more deaths per day due to starvation. The previous representative resigned after criticizing the UN's late response in the Somalia crisis.

Russia

The Russian Parliament ratified the Strategic Arms Reduction Treaty in an overwhelming 157-1 vote. But it said that the three states, Ukraine, Belarus, and Kazakhstan, must sign the global non-proliferation treaty before it can effect. The START treaty calls for the reduction of American and Soviet strategic weapons by a third.

Russian President Boris Yeltsin and the Supreme Soviet imposed a state of emergency in an attempt to stop the first outbreak of ethnic warfare in Russia. The violence broke out between the Ingush and the Ossetians in North Ossetia.

Russian chemist Vil S. Mirzayanov was incarcerated for revealing top secret information that, as of this spring, Russia has been working on a new type of chemical weapon. The research has been conducted at the same time that the Kremlin was claiming that it had stopped all production of such weapons.

Antarctic Ozone Hole

The ozone hole over Antarctica was found to cover the greatest area on record, about three times the size of the United States. Currently about 25% larger than previous years, the hole is predicted to worsen for approximately another decade.



FIRST BOSTON

Technical Opportunities at First Boston

First Boston, a major international investment bank, headquartered in New York City, will be conducting on-campus interviews at Caltech for the Technical Associate Program in the Information Services Department. We are looking for Seniors with analytical and computer skills who want exposure to the world of finance. First Boston uses the latest advances in hardware and software technology to create systems crucial to our success in the financial marketplace. If you are interested in helping shape the future of Wall Street through technology, this program will be of interest to you.

We will be recruiting on campus for full time positions on:

Thursday, November 19, 1992

To arrange for an interview, sign up at the Career Development Center as soon as possible, but no later than Wednesday, November 18 at 12pm.

ENTERTAINMENT

Q: How Many Books in a Trilogy? A: 42

Mostly Harmless
by Douglas Adams
Harmony Press. 277pp.

Douglas Adams isn't the fun-loving guy he used to be. No longer one for rampant silliness and action at a breakneck pace, he seems content to let characters sit around and, for want of a better phrase, develop. Mind you, they develop quite humorously, but, still, for fans of the first three titles in the increasingly inaccurately named Hitchhiker's Trilogy (many of whom, I know, failed to appreciate the fourth), it is certainly not what they are used to.

Mostly Harmless reminded me more of *Dirk Gently's Holistic Detective Agency* in style than any of the first three of its trilogical brethren. It interweaves a bunch of seemingly unrelated story lines (we know they're related because of the characters they involve) and reads very much like a mystery: Where is the Earth? Where is Fenchurch? Who is behind the mysterious takeover of the Hitchhiker's Guide offices? Will anyone ever be able to comprehend Whole Sort of General

Mish Mash? Was Elvis really kidnapped by aliens?

Some of these questions are resolved, others are not, others still lie to be asked after reading the book. And, upon finishing the book wondering "Is Douglas Adams just trying to mess with my mind?" one merely has seen him smirking at you from the picture on the back of the dust jacket and realize, of course he is. He's enjoying it, too.

I have difficulty recommending this book, but I am going to anyway. I have a feeling that people who didn't like *So Long and Thanks for All the Fish* won't be too fond of this book either. It doesn't have the manic nature of the first books, there aren't nearly as many non-sequiturs and random bits of funny commentary on the nature of things (there are some), and some of people's favorite characters are mentioned only in passing or, worse,

not at all (One even died in the previous entry.). But readers who like the kind of obscure self-referentially of the Sandman comic series (there's even a footnote to remind the reader of where to look for

BOOK REVIEW

Steven M. Sobelman

a reference), will probably enjoy getting their trivia knowledge tested. Oh, it's pretty damn funny, too.

Be forewarned, the book might leave you with a "Now what?" sense of finality. If it does, do what I did. Try not to root yourself too strongly in the probability axis, and remember that there couldn't possibly be a sixth book in the Hitchhiker's Trilogy.

by Jim

Bridge Without Sam

Jeff Goldsmith

Merrimac

Playing in the final of a regional knockout teams event against an overmatched but capable team, I run into a difficult defense problem. We are destroying them, but I am still playing for pride when I hold the East hand:

♦ AQ8
♥ 3
♦ A3
♣ Q987542
N
W
E
S
♦ J973
♥ AJ72
♦ K104
♣ 103

South	North
1 ♠	2 ♣
2 ♠ ¹	3 ♦ ²
3 NT	4 ♠
(All Pass)	

¹ 2♦ was forcing and suggested a minimum, but did not require more than five spades.

² 3♦ could be short; 3♦ would not be forcing.

Partner leads the ♦5, I win with the Ace, declarer follows with the Eight, and I stop to take stock.

Dummy has bid his hand very aggressively, looking for a slam with only three spades and such a bad long suit, but they have landed on their feet. Since this is a long team match, my goal is to try to beat the contract. With trumps breaking poorly, that looks possible if I can kill the club suit. If declarer has six spades, we probably have no chance because declarer has a heart trick, the ♦Q, and a club honor for his opening bid. He will get five trumps, a heart, two diamonds, one club, and a ruff for ten tricks. More likely, however, is that declarer has only five trumps, which will give him 5—3—3—2 shape. He has either the ♦K or the ♦QJ, the ♦Q, and the ♣A, plus one of the black Kings, but not both. Exceptionally, he might be missing the ♣A and have the ♦J as well as both black Kings.

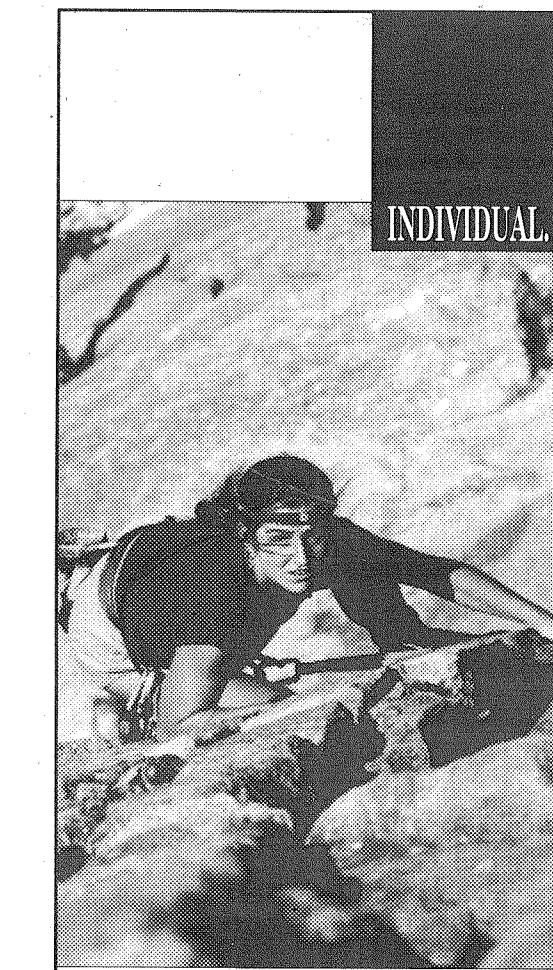
If I tap dummy or exit passively, he will be able to draw trumps, knock out partner's club honor (which is expected to be doubleton) and make easily. Is there anything I can do?

Yes. After trumps are drawn, the only entry to dummy's club suit is the ♦A, so if I remove it the club suit is dead. I shift to the ♦K, knowing that this might give away a trick, but expecting it to come back with interest. If declarer lets it hold, I can continue and knock out the Ace anyway, so he wins the trick, misjudges trumps (I was wearing a shirt commemorating the Short Life of the King of Clubs,) squirms around for a little while and finally concedes down one. My Merrimac Coup hit below the waterline as evidenced by the complete hand:

♦ AQ8
♥ 3
♦ A3
♣ Q987542
N
W
E
S
♦ J1092
♥ AJ72
♦ K1054
♣ 10
76543
K108
Q92
AK

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

Tuesday, November 10th is a special opportunity for students to win a \$500 scholarship. We will be holding the North American Collegiate Bridge Championship and the highest scoring pair on the west coast will win \$500 each. We won last year. Even if you don't win, there will be free pizza and soft drinks and a fun game.



Please Note: Open to all interested students. Your attendance at the Information Meeting is a prerequisite to your interviewing process. Please attend. Refreshments provided! Casual attire.

INFORMATION MEETING:

Date: November 9, 1992
Time: 4:00pm - 6:00pm
Place: Student Activity Center, FAC 13

INTERVIEWING:

Date: November 10, 1992
Place: Check with Placement Office

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ENTERTAINMENT

808 State Lifts Off

808 State
Time Bomb
Tommy Boy Records

Anne Dudzik

Time Bomb has set 808 State off on another huge club tour, to the delight of the techno scene. Over the years, 808 State has become the U.K.'s most successful ambient techno music producer. Running counter to all of the trends of the British rave scene, 808 State started out with acid and trance-like tracks, and have gained an increasingly hard-core sound.

Their explosive new album is their most dance-oriented, ironically released during the death throes of the European rave scene. The single "Time Bomb" is a fine blend of 808 State's softer and harder edges. "Nimbus" is similar to the "Lift" track released a couple of years ago, but "Nimbus" is more danceable, suited to the chill-out rooms and the ambient techno clubs springing up in Germany now.

If the only 808 State song you liked was "In Your Face," then this is not the album for you. Most of the tracks are 808 State's closest move to the early Windsor and Detroit artists, such as the Reese Project and Rhythim Is Rhythim.

808 State have switched over to Tommy Boy Records, a rap/house/hip-hop label containing such huge bands as Technotronic. Despite the fact that Tommy Boy is distinctly

rap-oriented, 808 State is not trying to pick up a house sound. The band says that the new label makes it

more convenient for them to get vocalists, including the occasional rapper.

The members of 808 State follow many techno artists such as Moby and Nexus 21 in not singing on their

own tracks, and sometimes the band members have completely hidden themselves from their audience at concerts.

808 State is currently working on a much faster, near break-beat al-

bum due later this year. I've heard some of the tracks, and they are good. Expect something between Underground Resistance and Praga Khan. The album will be entitled "Gorgeous," and it should be.

A ten year old attends Caltech**Only one other 10-year-old has ever performed so well on a keyboard.**

This year, Sun Microsystems® turns ten. And though some computer companies have fallen on hard times lately, we have plenty to celebrate.

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Of course, we all hear about high-tech start-ups that enjoy a few years of giddy optimism. But growth that outstrips the industry giants for ten years running—that's unheard of.

Consequently, Sun is now counted among those giants. We're the world's largest maker of UNIX® computers, and the only major vendor that's 100 percent dedicated to open systems.

Our SPARC® chip technology is the only platform that powers compatible products ranging from notebook computers to supercomputers.

And the software at the heart of our Solaris® operating environment is in the hands of more than 500,000 users, making it the most popular distributed computing solution in history.

But that's all behind us. We're more excited by what's ahead. After all, Mozart may have been a prodigy at ten. But it's what he accomplished afterward that turned the world on its ear.



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Pasadena Symphony Performs at the Pasadena Civic Auditorium

Khurram Dastgir-Khan

The Pasadena Symphony opened its sixty-fifth season at the Civic Auditorium on 25 October. They made an auspicious start.

Jorge Mester started the concert, and the season, by leading the Symphony in a warm rendition of Dohnanyi's *Suite*. Dohnanyi (1877-1960) called himself "a romanticist with classic tendencies," and his piece displayed his talents perfectly.

The players were at their best in the lyrical *Romanza*, which formed the third movement of the suite. This movement is heralded by plucked strings, but culminates in a beautiful solo cello theme. Dennis Karmazyn, the principal cellist, sensitively played the theme and ably brought out its euphonious tension. The final movement was highlighted by woodwinds and castanets.

The Liszt piano concerto featured the Mexican pianist Santiago Rodriguez. Liszt (1811-1866) almost always wrote for a virtuoso pianist, and Mr. Rodriguez came through. The piece is intended as a single movement, but has four distinct parts and the orchestra played it competently. During the faster passages, however, the orchestra inadvertently drowned out the piano.

The highlight of the evening was the F-Major Symphony of Dmitri Shostakovich (1906-75). The orchestra gave a superb reading of the piece. The symphony opens with a haunting solo trumpet, followed by a faster clarinet theme, contrasted with a melodic passage in solo flute. This rich juxtaposition of instruments is repeated at the end of the

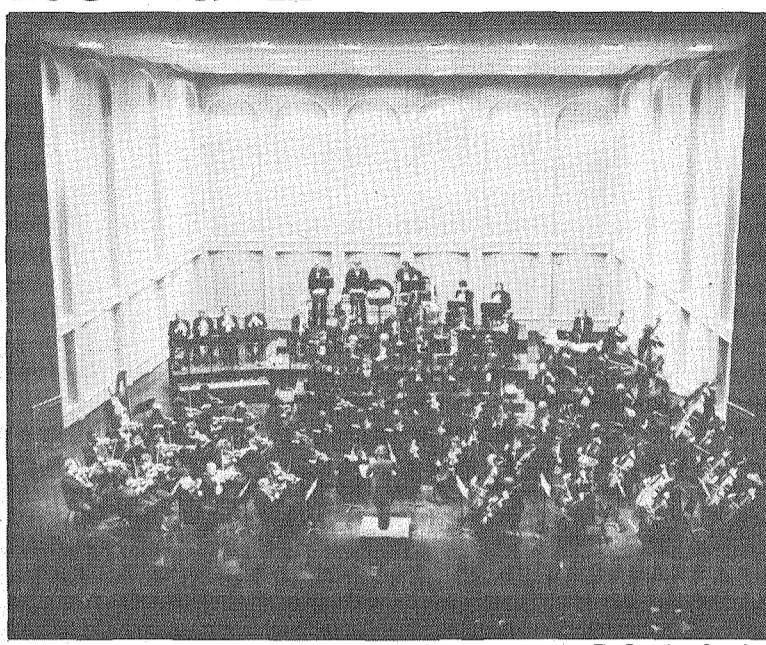
movement, but in reverse order.

Indeed, juxtaposition is a theme that recurs in the composition when the second violin picks a theme that is slowly picked up and overlaid by the first violin. The final movement contains quotations from the first movement, but its highlight was a solo passage for an instrument rarely given such attention; the kettle drum. The soloists did a wonderful job of enunciating the melodies, and the orchestra gave a rousing finale to the concert.

This was the first time that I heard the Pasadena Symphony, and I came away very impressed by its skill. The conductor, Jorge Mester, ably led the ensemble but sometime lost control during the faster passages of the Liszt and Shostakovich pieces. The players were, almost without exception, of a very high caliber. The soloists were positively brilliant.

It is doubly tragic that the Pasadena Symphony has only five concerts in its season. First, I have a strong feeling that with more opportunity to play together, the orchestra can develop an internal rapport, and thus raise its level of performance from extremely good to outstanding. Second, the limited number of concerts prevents us culture-starved Techers to get in touch with brilliance of a non-technical nature.

The Pasadena Symphony is a "world-class" (*L.A. Times*) ensemble in our fair city and it gives the second performance of the season on November 21. The Y has discount tickets. For those who have the time that evening, I have three recommendations; go, go, go.



*courtesy The Pasadena Symphony
The Pasadena Symphony opened its sixty-fifth season at the Civic Auditorium on 25 October.*

The Pasadena Symphony

Jorge Mester, Conductor
Santiago Rodriguez, Piano

Program:

Ernst von Dohnanyi *Suite for Orchestra in F Sharp Minor, Op. 19*

Franz Liszt *Piano Concerto in E Flat Major*

Dmitri Shostakovich *Symphony No. 1 in F Major, Op. 10*

Sea and Shore of Baja

Cara Stemen

Dr. Theodore Walker brings his travel film "Sea and Shore of Baja" to Beckman Auditorium tonight at 8 pm. Dr. Walker's personal narration brings to life both the inhabitants' struggle for survival and the rich natural beauty of this slender peninsula.

Baja, California, one of the last true wilderness areas of North America, dangles by a narrow connection to upper California. Baja is on the threshold of change, however, as a recently completed trans-peninsular highway open the gates of tourism.

The shores of Baja are both beautiful and hostile. Journeying to fishing villages, where the inhabitants brave the winds, currents and sharks in order to dive and fish for marine products, the source of their livelihood, Dr. Walker illustrates how man responds and adapts to the harsh realities of Baja.

Dr. Walker explores the lagoons, estuaries and salt marshes, and records the many marine organisms of these waters. On offshore islands, he finds many of nature's rhythms unchanged, chronicling the life of foraging birds and seals.

Tickets are \$8.50 and \$6.50 and can be purchased at the Caltech Ticket Office. For more information call x4652.

YNEWSYNEWSYNEWS

Katy Quinn

The big event this weekend is the return of Einstein. Ed Metzger portrays Einstein in a one man show entitled: "Einstein's Influence on the World Today". Tickets are for sale at the Caltech Y for only \$7.50; this is compared to the normal price of \$22.50 and these are no less than the best seats in the house! We've been doing some wheelin' and dealin' just for you. The show is Saturday, November 7th, at 8 pm in Beckman Auditorium. Come up NOW and get your tickets.

Next week we have a number of volunteer activities. On Wednesday at noon there will be a Tutoring meeting in Clubroom 1. Friday there will be a group going to Union Station to help feed the homeless. Also look out for the sign-up to go to the Tijuanna YMCA, there is a trip planned for next weekend. It's always a great experience for those who go.

This is a brief Y News, I have to get ready for a geology field trip to Baja. In fact as you are reading this I will probably be studying fossils, or zipping down the Mexican freeway in those buff, manly geology vehicles. Wheeee!!

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ASCIT BOD: Nov. 3, 1992

Korhan Gürkan

Present are the BOD (minus Tim), Ewald, Gavin Claypool.

Tim will be not be around for a couple of weeks. Amit is in charge of the money in his absence. (Finally, he is in charge of something...)

Hey, the U2 concert was awesome. Get tickets for next Saturday's show.

ASCIT Copier: The copier in the SAC is out of order for now. It should be fixed in a couple of days. Meanwhile, Todd found out that the maintenance contract for the copier did not exist. So, he will be getting one pretty soon, like tomorrow. By the way, the old ASCIT

van is now fixed and running strong as usual. If you want to borrow it, call 1-800-VAN-MANN. Open twenty four hours a day, but calls might not go thru.

Interhouse: (OOPS, that was the prohibited word!) Ben had a meeting today with Gary Lorden, the Deans, the MOSH and Kim. Because of liability concerns, we are not allowed to have more than two courtyard parties at the same time. (Well, I've got two words for that: LAME, LAME.) So, Ben does not know what to do with the Interhouse plan. (I guess it's dead. Just like the Republicans.) While the IHC decides on that matter, ASCIT will probably have a party at the new

gym before the end of November. That is, if Derek can finally get in touch with Dan Bridges, who happens to be at the Athletic Center everyday.

Page gets \$200 for the party at the beginning of the term.

The BOD members share their stories of fame. Did you know that June was in "The Wonder Years" when she was a kid? And that Todd was the inspiration for the creator of "Teenage Mutant Ninja Turtles"? June thinks that this week's BH90210 will be very exciting. (In case you were wondering...) On a more serious(?) note, we discuss the latest election results. Well, this was the first national election that I had witnessed since coming to the U.S. and I am glad the Dems have won. But, being the foreigner that I

am, I still do not understand why you have only two major parties and the Electoral College still does not make any sense. Apart from that, it was OK.

ASCIT Movies: According to our underground sources, the projectors have not been fixed yet. Well, the movie people are not around, so we don't know whether there will be a movie this weekend or not. Fru, it's also time for the midterm report.

Tech Salaries: Gavin is here! And he wants us to approve the salaries of the editors and the business manager, etc... for the last six issues. Well, I don't know about that. The editors have not been too nice lately. But hey, they did print the minutes the last three weeks. OK, I guess we'll be the nice guys.

The salaries are approved, but keep it up, guys! (7-0-0)

Big T: It looks like Big T does not want to be paid. That's fine with us.

Committees: Signups for the Academic Policies, Grievance and Athletics committees are closed. Interviews will be held next Tuesday at 10 p.m. at the ASCIT Meeting Room. Signups for the Women's Center positions are STILL open since no one has signed up. We need one undergrad on the Advisory Board and one on the Director Search Committee. You can signup for both. Also, you don't have to be a female to sign up. So, please SIGN UP!!!

Jon put signups for his Educational Policies Committee in all the houses. If you are interested, sign up.

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(continued from last year)

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If you're interested, watch for recruiters from J.P. Morgan who will soon conduct information sessions on campus. Meanwhile, read on.

An overview of J.P. Morgan

J.P. Morgan's business is complex, and the role we fill often crosses organizational and geographic boundaries, but broadly speaking the financial services we provide include the following:

- Strategic advice: We are a leading financial advisor, counseling our clients on the financial implications of corporate strategy and structure and executing transactions such as mergers, acquisitions, and divestitures. Morgan is especially strong on cross-border transactions, taking advantage of our global presence and international depth.

- Financing and capital raising: We are experts on raising capital for clients using all major financial instruments including equity and debt underwriting, loan syndications, and private placements, in all major markets in the United States, Europe, and the Asia/Pacific region.

- Trading and risk management: Our business often requires transactions in the capital markets, where stocks, bonds, and other instruments are launched and traded. Morgan is a major participant in world markets, as a market maker (matching buyers and sellers) and as a position taker (managing short- or long-term risk positions).

- Securities processing and information services: We deliver a wide range of operational services to our clients, handling a variety of needs from helping them track secu-

rities portfolios to managing cash on a global basis.

- Asset management and private banking: Morgan provides large investors – such as pension funds, insurance companies, and wealthy individu-

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- Research: Morgan's business activities are supported by a strong research capability. In some cases, dedicated research units support specific

business areas, such as our Financial Advisory Department, a group of company/industry specialists within our Corporate Finance group. In addition, the firm's Global Research group pro-

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To be continued at an upcoming information session.

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Continued from page 1

A Man for All Seasons

brought about by power, it is about the separation of church and state, it is about foreign interference in domestic politics, it is about the hypocrisy of Catholicism, it is about one's duty to one's country, one's god, and one's family. In many ways, "A Man for All Seasons" is an incredibly compact essay on power and duty. It is also a glowing picture of Sir Thomas More, who refuses throughout the play to cast doubt on the sincerity of another man's actions, despite the obvious discrepancies between those actions and his own. Sir Thomas's refusal to make the King's oath is based solely on his inability to swear on the Bible against his conscience, it is never a reaction against his fellow men. According to Mr. Bolt's script, Sir Thomas is as good as it is possible for a mortal to be, and that is exactly why he is killed.

Fortunately, the two biggest villains, King Henry and Lord Cromwell, are excellently played. In fact, Mr. Doherty's King Henry is completely likeable, and Mr. Brun's Cromwell is an understandable, if ruthless, pragmatist. The moments are not wasted, therefore, in which Mr. Bolt gives us an op-

portunity to understand these men. If we try to ignore the purity of Sir Thomas's intentions, the play can almost be seen as a criticism of Sir Thomas's naivete, and a demonstration of the absurdity of acting precisely on the basis of Catholic values. As a believing Catholic, Sir Thomas cannot swear to the oath without condemning himself to eternal suffering, and this ruins (and ends) his life, grieves his friends, and places his wife and daughter in poverty. Sir Thomas ends up cruelly harming everyone who depends on him, because he is required to value his soul's eternal future over the earthly future of himself and his family.

Although it ends with Sir Thomas's death, the play is a tragedy and not a melodrama. It is the punishment of the living, and not the death of Sir Thomas itself, that makes the story powerful and sad. The most touching scene takes place in the jail, in which Lady Alice More (Elizabeth Sheiman), impoverished and alone, speaks with her husband for the last time. Excellent performances by Mr. Olsen and Ms. Sheiman at the critical moments actually brought a tear to this cal-



photo by Anoop Sinha

lous reviewer's eye. The whole play is admirably tied together by the irreverent but thoughtful Common Man, probably the most challenging character in the piece, played by Dan Dilling.

Even if the performances had been

poor, I might have recommended this play on the basis of the script alone. However, add to the fine script a group of excellent performances (many of which I have not mentioned in this *non-review*) and you are assured of enjoying yourself

yourself at the TACIT production of "A Man for All Seasons."

* * *

"A Man for All Seasons," produced by Theatre Arts at The California Institute of Technology (TACIT), in Winnett Lounge, Caltech Campus, Fridays and Saturdays 6, 7, 13, and 14 November 1992, 8:00 p.m., and Sundays 8 and 15 November 1992, 2:00 p.m. Tickets are \$6.00, \$4.00 for Caltech students. Tickets are available at the door, or at the Caltech ticket office x4652. (Ms. Marneus asked me to tell anyone who has seen a large brass ring, with many "prop" jailor's keys attached, to call her at x6259 or 441.3738 so she can get them back for the performances!)

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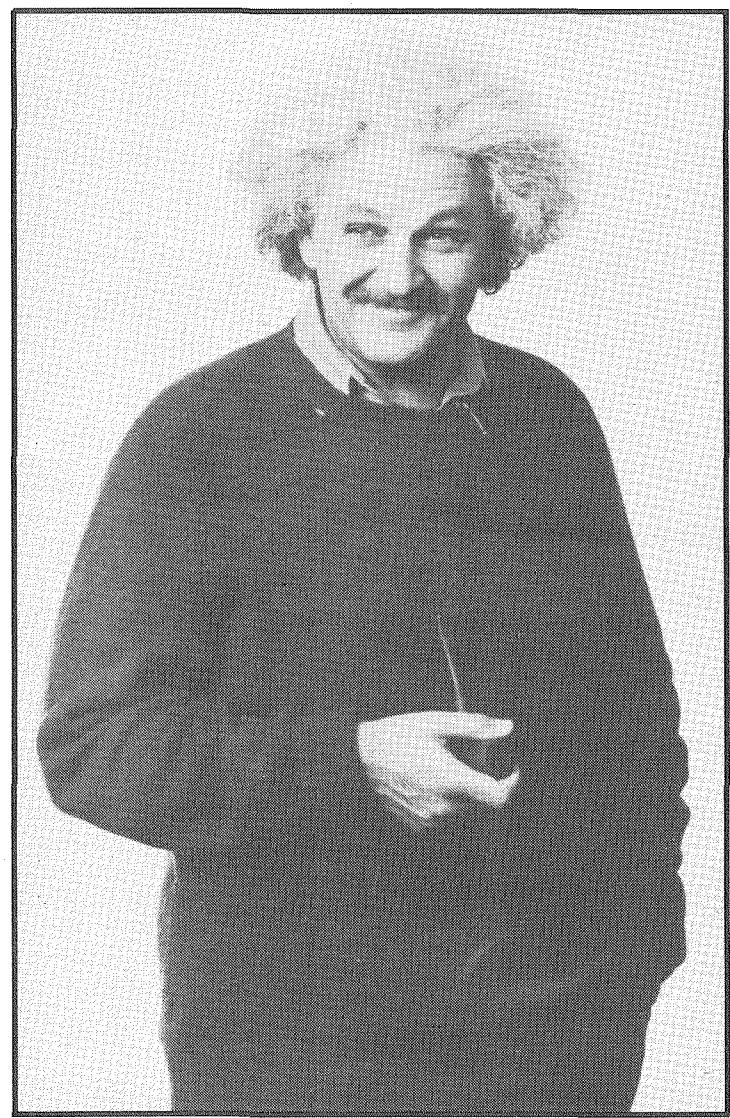
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Ed Metzger.

Ed Metzger as Albert Einstein at Caltech

Cara Stemen

With his frizzy shock of wild white hair and his baggy clothes, Albert Einstein always thought of himself as the "Practical Bohemian". On Saturday, Nov. 7 actor Ed Metzger will portray "Albert Einstein: The Practical Bohemian" at 8 pm in Beckman Auditorium.

In addition to being one of the greatest minds of the 20th century, Einstein was a warm, funny man enjoyed laughing at himself. He loved to tell jokes, loved sailing and loved women.

Metzger has been portraying Einstein since 1978 when he had the debut performance at the Matrix Theatre in Los Angeles. Since that time, Metzger, who wrote the script with Laya Geloff (producer, agent, and Metzger's wife), has performed this one man show from New-York's Off-Broadway to major theaters throughout the country including the Kennedy Center in Washington D.C.

For ticket information call x4652 or visit the Caltech Ticket Office.

SPORTS

Homeboys to Host Duathlon at Rose Bowl

Andrew Zug

The weather starts to cool off, the air becomes cleaner and all the skinny runner types on campus start to talk smack. This can mean but one thing: Club Homeboy, that bastion of endurance sports appreciation, is hosting yet another too-fun-to-legal (and way-too-fun-to-be-free) event.

In fact it's time for Homeboy's Fall duathlon which in the past has been its most popular event. Mark your calendars now: Homeboy 5 will be held on Saturday, November 21, at 10:00 AM at the Rose Bowl. The distances will be 5k run, 30k bike, 5k run.

At this point I hear frosh and G-1's asking, what is Club Homeboy? No, no, it's not about "defness" and rap music (sorry, look elsewhere) but rather running and cycling. Also known as the Caltech Duathlon/Triathlon Club, Club Homeboy puts on its own races which are free of charge to all members of the Caltech/JPL community. This is a significantly better deal than the \$40-\$70 charged by official races of this type.

The other question you may have is "What the hell is a Duathlon?" A

duathlon is a race that includes running and cycling and used to be called a biathlon but the powers-that-be got tired of people showing up to races with skis and rifles only to be disappointed.

This event will be of the same format as last fall's and on the same course. This means that the first run will be on the trails around the Rose Bowl and slightly longer than 5k. The bike leg will be six laps around the Rose Bowl and golf course and the last run will be one lap. Registration is from 9:30-10:00 AM.

As usual, this event is free and will be well supplied with food and drink thanks to ASCIT and GSC. In addition, transportation to the Rose Bowl from the gym will be provided at 9:00. We expect about the same number of racers as last year (about 40) and the level of competition will be diverse.

In the past, we have had nationally ranked athletes as well as people who were just glad to finish, so don't let being out of shape stop you from racing. Relays are also welcome as are individuals who do just one leg of the race. In addition to the free food and distinct change from school work, it's also a good place to meet people outside of the

undergrad (or grad) community. As usual, we expect a good JPL and alumni contingent to be on hand.

In addition to hosting duathlons first and second terms, Homeboy also will put on a spring triathlon as well as a full women's heptathlon. Homeboy also organizes informal bike rides to places such as Mt. Wilson and Seal Beach. The club is very informal with no strict membership. If you would like more information on the club, call Andy Zug at 577-2772.

If you've decided you would like to participate in the duathlon, just show up at the corner of the Rose Bowl parking lot (Seco and West Str.) at 9:30 (or 9:00 at the gym if you need a ride.) If you would like to relay but need a partner (or just want more information on the race) call Andy as soon as possible. Also, if you would like to do the whole race but need a bike, we have a limited number that can be borrowed. Again, call Andy.

Volunteers and spectators are also welcome. Come and find out if: Ned gets any more obscene things shaved on his head, Chris "pays the piper" again, Dex draws blood, Aimee beats Pham, and if Rich is untouchable.

This Week In Caltech Sports

Men's Football

11/7 1:00 PM

at Pomona-Pitzer(JV)

Men's Water Polo

11/4 4:00 PM

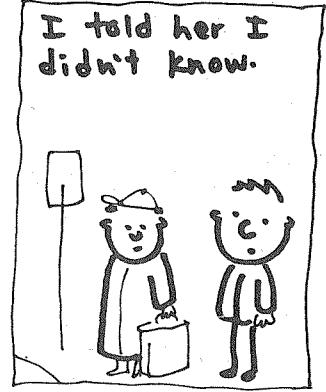
vs. Redlands

11/7 11:00 AM

at Occidental

Admission is \$5.00 for students. The Skeptics Society also publishes a quarterly magazine, *Skeptic*, now in its second issue.

A partial reading list:
Practical Mental Effects, by Annenmann
13 Steps to Mentalism, by Corinda
Psychology of the Psychic, by Marks
 and Kammann (Uri Geller spoilers)
Best Tricks With Slates, by Peter Warlock



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By ROBERT BOLT

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SPORTS**Beaver Hockey**

Bob Lane

This Sunday, 11:30 AM at the Pasadena ice rink, be part of the spectacle - fans around the world will be tuned in to check out the rumors about the Beaver ice hockey squad: Is Jacques Belanger's slap shot really killing fans who sit in the low rows behind the net? Does Jim Bower really shake hands at game's end with the same guy that he just moments before made disastic? Do opposing fans really shower Dwight Berg with flowers and other tokens of love? Is Jeff Moore really going to once again lead the league in gross misconducts? Do Ron Seifert's full length rushes really resemble the grace and elegance of kamakazi raids? These questions and more are anxiously awaiting the home arrival of the Caltech ice hockey squad this week, fresh from its season opener played last week at Pepperdine.

In that game, the Beavers came out a bit sluggish and although the first period ended with no scoring, The Wave were clearly pressing. This was Pepperdine's 3rd game of the season, having lost to U.C. San Diego in its first two games, so they were hungry to play a tough game in front of their home throng. And for the first two periods, the up-roarious crowd seemed to inspire the home team.

Finally, midway through the 2nd period, The Wave finally broke the scoreless tie. But the third period belonged to the Beavers, and on the strength of Haj Sano's two goals,

SCOREBOX**Women's Volleyball**

Cal Maritime Tournament

vs. Holy Names W 15-12, 15-7
vs. Cal Maritime L 11-15, 5-15
vs. College of Notre Dame L 5-15, 12-15
vs. La Sierra L 15-12, 2-15
vs. L.I.F.E. Bible College 2-15, 11-15
vs. Mt. St. Mary's W 15-0, 18-16, 15-11
Overall: 3-7 Final

Men's Cross Country
SCIAC Championships

Overall: 4-5

Women's Cross Country
SCIAC Championships

Overall: 3-7

6th Place

W 15-12, 15-7
L 11-15, 5-15
L 5-15, 12-15
L 15-12, 2-15
2-15, 11-15
W 15-0, 18-16, 15-11
L 3-15, 2-15, 9-15

7th Place

Men's Football

vs. Univ. of San Diego(JV) L 0-30
vs. Univ. of San Diego(JV) L 0-39
vs San Fernando Valley Wolverines L 7-39
Overall: 0-4

Men's Soccer

vs. Whittier L 0-2
vs. Occidental L 3-4
Overall: 4-7-1 Final

Men's Water Polo

vs. Pomona-Pitzer L 3-12
vs. Claremont-Mudd L 5-16
vs Whittier L
Overall: 2-2

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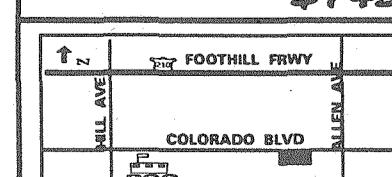
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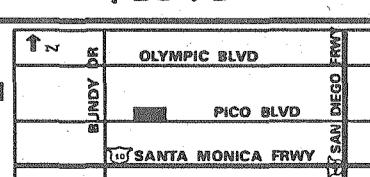
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WHAT GOES ON

NOTICES

Caltech Film Club - The Caltech Film Club holds meetings every other Wednesday in SAC room 25 at 8 pm. For further information contact Alex Protopapas.

Caltech Y Excomm meeting - The Y invites anyone who wishes to cosponsor an event to attend on Monday, November 2 at noon in the Wes Hershey lounge on the second floor of Winnett.

Hold The Date! - Auditions for the upcoming Winter musical will be held on Saturday and Sunday, November 21 and 22. We want students actors, singers, technicians, musicians and more. Start preparing. For more information call Elizabeth x2935.

Part Time Job for a Work Study Student - Professor Bjorkman's lab in Biology needs a laboratory helper. The duties would be as follows: Autoclave glassware, pick up clean glassware and reshelve, make bacterial medium, go to the stockroom to purchase necessary supplies. A Biology major is preferred. Estimated hours per week: 10. If you are interested, please call extension x8351 and ask for David Penny or Peggy Fahnstock.

Arroyo Singers - The Arroyo Singers Women's Chorus is seeking male Tenors and Basses to join them in performing the Vivaldi Gloria #589 on December 6, 1992. Familiarity with the piece and/or the ability to read music is required. For more details, contact Director William Aardappel at (818) 457-1785.

Earthquake Response Team - Security needs student volunteers for an Earthquake Response Team. Call x4701 8am-5pm Mon-Fri.

EVENTS/SERVICES

Friday Prayer - Prayers organized by Caltech Muslim Students are held in the Caltech Y lounge at 12:30 pm every Friday.

Caltech Hillel/Jewish Community Weekly Meeting - An informal gathering, every Thursday at noon in the Y lounge. For information call Caty Konigsberg at 213-259-2959

Mass - Thursday at 8:15 in the Y lounge and Sunday at 10 am 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.

Gay, Lesbian, Bisexual Support Group - Meets the second and third Tuesdays at 7:30 pm 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. On November 10 we will continue our focus on "Discovering One's Sexual Orientation". Refreshments are served. For information, please call 356-8331.

Al-anon members needed to facilitate start up group on Caltech campus. Please contact Caltech Staff & Faculty Consultation Center at x8360.

Adult Children of Alcoholics - A 12-step group meets on campus every Tuesday, from 12 noon to 1 pm, in "Club Room Two". The 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 356-8331.

Open Line - Open Line meets every Tuesday in the Y lounge upstairs during lunch, between 11:30 and 1:00. Topics discussed include developing a youth center for ages 5-12 fortutoring services, activities and cultural development for the children of Caltech students, staff and faculty, developing a multicultural book for the understanding of all nationalities, traditions and customs. Open to all of the Caltech community.

Poetry Workshop - In the Y lounge from 7:30 to 10 pm on the second and fourth Tuesdays of every month. For information call Silvana Pereira at 356-8343.

Fall Coronation - At Court of Man and Ramo auditorium, from 9 am to 2 am there will be pageantry, merchanting, feasting, dancing, and such. Sponsored by the Caltech Medieval and Renaissance Society. For information call Lady Therese of the White Griffith, (310)830-0669, or Allison Johnson, 584-3828.

CIT-KNIT Group meets at noon on Tuesdays in the Benioff Conference Room (Rm. 256 S. Mudd). For all levels of knitters. Come and join us.

Preschool Playgroup - The Caltech Women's club sponsors structured activities for mother's, father's and their children, on Tuesday, November 3 in the Caltech Villa Apartments, from 10 am to noon. For further information contact Valerie Murray at 287-8960.

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 am. For more information call 952-1631.

Women's International Friendship Group - at 9:30 am at 415 S. Hill on Monday, November 2. All women from foreign countries are warmly invited. Children will be supervised. Sponsored by the Caltech Women's Club. For more information call Susan Dimotakis at 794-2594 or Kay Corwin at 447-1081.

Alternative Transportation Incentives - Caltech offers alternatives to driving, including reserved carpool spaces, monthly cash incentives for carpool groups of three or more, RTD bus subsidies, computer carpool matching service, and a Vanpool Pilot Program featuring monthly cash incentives in the planning stage. To participate call Caltech Commuter Services at x3203.

ENTERTAINMENT

German Club Coffee Hour - Please come and speak German with us. The first meeting of the German Club Coffee Hour is from 8:00 to 10:00 pm on November 19 in the Dabney Lounge. Cookies and drinks are served. Please note that all Club's activities are reserved for members only. Anyone interested in receiving free membership, please contact Prof. Andreas Aebi @ 3620, aebi@iago, or T'Nghia Vuong @ tnilsv@hamlet. Future meetings, movies and other activities to be announced.

"Sea and Shore of Baja" - Dr Theodore Walker personally narrates this Armchair Adventures travel film. In Beckman auditorium at 8 pm on Wednesday, November 4.

"Effi Briest" (1974) will be shown in Baxter Lecture Hall on Thursday, November 12 at 7:30 pm. Admission free. The film is Fassbinder's adaptation of Fontane's novel. Shown in German with English subtitles. Discussion following.

String Quartet Concert - At Ramo Auditorium, 3 pm on Sunday, November 8, Dr. Simon Ramo will be featured on first violin. Joining Dr. Ramo will be Delores Bing, cello; David Stenske, viola; and Ruth Bruger-Johnson, second violin. This program will include works by Dvorak and Beethoven. Admission free. Call x4652 for more information.

"A Man for All Seasons" - Theater Arts at Caltech presents the play based on the life of Sir Thomas More in Winnett Lounge, Nov 6-Nov 8 and Nov 13 to Nov. 15. 8pm on Friday and Saturday and 2pm on Sunday. Admission is \$6.

"Albert Einstein - The Practical Bohemian" - Ed Metzger portrays the brilliant scientist in a one-man show on Saturday, Nov. 7 at 8 pm.

The Pasadena Folkdance Co-op offers beginning and intermediate instruction every Friday at 7:45 pm in Throop Unitarian Church on the corner of Los Robles and Del Mar. A program of varied international dances follows the instruction at 9:00 and continues until 11:00. Wear soft-soled shoes. A contribution of \$1.50 is requested.

International Folk Dancing - Tuesday night in the Dabney Lounge. Beginning instruction starts at 7:30 pm; intermediate at 8:00 pm and open dancing takes place from 9:00 till midnight. Donations are accepted for more information call Mike McKenna (310) 692-0366.

Israeli Folk Dancing - Sunday in Winnett lounge. Beginning instruction starts at 7:30 pm, intermediate at 8:00 and open dancing goes 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 pm. 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 pm 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.

California Generations - At Beckman Auditorium on Friday, November 13 at 8 pm. This presentation features the performing arts traditions of native, immigrant, and ethnic groups of California. Admission is \$22.50, and student and senior rush tickets at \$7.50 are available from one half-hour before the performance. (800)423-8849 or (818)356-4652. Individuals with a disability: (818)356-4688.

LECTURES/SEMINARS

Not to be Missed - Legendary professor of the history of architecture, Dr. Vincent Scully of Yale University, will speak in Beckman Auditorium, Thursday, November 12th, 8:00 pm. Title: "Louis I. Kahn: The Ruins of Rome." The lecture is free. Students who would like to be invited to dinner with Dr. Scully on Friday evening, November 13th, should contact the MOSH at x6295.

Color Printing Class will be given by the Dark Room Users Group on Sunday, Nov. 8, 2pm in the Dark Room (SAC 39). Contact Tim Shopka, x4256, or Alex Zeyliger, x3739, drug@cco.caltech.edu.

SCHOLARSHIPS, FELLOWSHIPS & COMPETITIONS

USA Today - USA Today is beginning its annual search for the nation's best college students. Sixty will be named to USA Today's 1993 All-USA Academic Team. Chris Ho won last year. The twenty first team members will receive a \$2,500 cash prize and their awards in a ceremony in Washington D.C. Winners will be selected by a panel of judges who will select students excelling in scholarship and leadership roles on and off campus. For copies of the application form send your campus mail address to editors@tech.caltech.edu.

Hughes Predoctoral Fellowships - The Howard Hughes Medical Institute will award 66 fellowships toward a M.S., Ph.D. or Sc.D. degree in biological sciences. The fellowships provide an annual stipend of \$14,000 and a \$12,700 annual cost-of-education allowance, effective June 1993. The fellowship is for both U.S. and foreign students and is aimed at students who have completed at least one year of graduate study. The application deadline is Nov. 6. Call (202)334-2872 for an application.

The Future of Computing - The Institute of Electrical and Electronic Engineers Computer Society, NCR Corporation and Computerworld magazine are sponsoring a \$60,000 international essay contest on the future of computing. The contest is open to undergraduate and graduate students. First prize is \$10,000 and a NCR notebook computer. For more information, send requests and campus mailing addresses to editors@tech.caltech.edu.

"Progressive Social Change in the 1990's" - Monthly Review, an independent socialist magazine, announces an essay contest for people 25 and under. Entries covering such topics as, How can we change progressive change in US society today? Are emerging movements creating new ideas and posing potential solutions? In what ways can new social institutions be constructed? should be 2000 words or less, written in English and typed double-spaced. First prize is \$500, second \$300 and there is a \$100 third prize.

All contestants will receive a free one-year subscription to Monthly Review. Send submissions to Monthly Review, 122 W 27th Street, New York, NY 10001. For more information call (212) 691-2555. The deadline for submissions is March 1.

Fritz B. Burns Prize in Geology - Undergraduates in the division of Geological and Planetary Sciences are encouraged to apply. The award(s) will be made up to \$1,500 for the best proposals for undergraduate research in the fields represented by the Division. If interested, submit a short statement (less than one page) describing the research you would like to do. The submission deadline is December 1, and they should be sent to Professor Kerry Sieh, Division Academic Officer, Division of Geological and Planetary Sciences, Mail Stop 252-21.

by Jim

"It's late," she said. "It should've been here by now - I'm sure of it."

The Harry S Truman Scholarship Foundation awards scholarships to college students who have outstanding leadership potential, plan to pursue careers in government or elsewhere in public service, and wish to attend graduate school to help prepare for their careers. Truman Scholars participate in leadership development programs and have special opportunities for internships and employment with the federal government. In 1993 up to 85 Truman Scholars will be awarded on the basis of merit to junior level students at four year colleges and universities who have extensive records of public and community service are committed to careers in government or elsewhere in the public sector, wish to influence public policies, have outstanding leadership potential, and possess intellectual strength and analytical abilities. A Truman Scholarship provides up to \$30,000. If interested, please contact the Dean of Student Office, 102 Parsons-Gates for further information. The deadline for completed nomination materials is December 2, 1992.

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

The annual Mensa Scholarship Essay Contest is here again. The essay should present clearly and concisely the applicant's academic, vocational and career goals. The only requirement is that the student be enrolled in at an accredited college/university for the 1993-94 academic year. All entries must be postmarked on or before January 31, 1992.

The Society for the Advancement of Material & Process Engineering (SAMPE) is announcing its 1993 Undergraduate Awards Program for Engineering. Application packages must be submitted postmarked no later than February 1, 1993.

The American Society of Naval Engineers is a sponsoring a \$2,000 scholarship for the 1993-94 academic year. The candidate must be a U.S. citizen, demonstrate a genuine interest in a career in naval engineering, and be applying for support for the last year of a full-time program or for one year of graduate study. Financial need may also be considered. Deadline for receipt of scholarship materials by the ASNE offices is February 15, 1993.

The American Scandinavia Foundation of Los Angeles will distribute five \$1,000 scholarships in 1993 to upper division and graduate students with a demonstrated interest in Scandinavia. Applicants must have strong academic qualifications and must show financial need. Two letters of recommendation, a transcript and the completed application are due by March 15, 1993.

American Electroplaters and Surface Finishers Society (AESF) is offering scholarships for the 1993-94 academic year to students of at least junior standing. Awards are not necessarily based on financial need. Field of study for this scholarship is in chemistry and/or the engineering sciences. The application and all requested information and documentation must be postmarked by April 15, 1993.

The Data Processing Management Association is offering three scholarships for \$1,000 each provided by the Bert A. Monaghan Systems Management. The scholarship committee must receive the application by November 20, 1992.

The American Physical Society (APS) is offering \$2,500 scholarships to African-American, Hispanic-American or Native-American undergraduate freshman or sophomore students majoring in Physics. The deadline to submit completed applications to APS is February 26, 1993.

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