Thomas Manning new Housing Director

by Toby Bartels

Two weeks ago, Thomas Manning became Caltech's new Housing Director. Previously, he had worked in the Residence Life Office at George Washington University in Washington, D.C. At Caltech, Manning wants to help the Housing Office to work better with students and with other Caltech offices, he said.

According to Manning, the Housing Office is the operational side of undergraduate housing. Midway between the Office of Residence Life, which deals more directly with students, and the Physical Plant, which is concerned with the buildings themselves, the Housing Office is responsible for working to incorporate the needs of students into the overall housing situation. For graduate and off-campus housing, the office performs all three functions, said Manning. In addition, the Housing Office has been busy lately finding temporary housing for the family of at least one Caltech employee whose house burned down in Altadena.

Manning sees his job as an opportunity to help the Housing Office improve its relationships with other elements of the Caltech community. He wants to work more closely with other offices, such as Residence Life. More importantly, he wants to work closely with the students. He wants to make the office less a place for mechanical processing of forms and more a place where students can come to find solutions to their housing problems. By doing so, he said, he also hopes to boost the office's image on campus.

Manning worked for several years at the Residence Life Office at George Washington University before coming to Caltech. According to Manning, the Residence Life Office and Physical Plant at GW had very little connection with each other. As an employee of Residence Life, said Manning, he worked closely with Physical Plant, helping to improve the offices' relationship. Now the two offices work well together, Manning thinks, which ultimately benefits the students.

Eventually, Manning decided he had no more opportunity to grow professionally at GW. When he arrived at Caltech for an interview, he was impressed by its environment and the nature of the students he would work with. Even though the consulting firm for which he worked while looking for a new job offered him a permanent position, Manning said, he decided to come to Caltech instead.

Reid to speak on E.T. Bell

by Margaret Belsha

Constance Reid, the author of several biographies of mathematicians, will be in Sloan, Room 151, on Wednesday, Nov. 3, 1993 at 4:15 P.M. to speak on her recently published book, The Search for E.T. Bell. Bell was a former Caltech professor as well as popularizer of mathematics and a science fiction writer.

Eric Temple Bell (1883-1960) was best known as a mathematician. As Professor of Mathematics at Caltech from 1926 to 1953, he was also an outstanding popularizer of mathematics, inspiring many young people to join the field. His book, Men of Mathematics (1937), which presented mathematics and mathematicians in a way that had never been done before, is still in print after almost sixty years.

Beckman ball returned!

by Zackary Dow Berger

Over the weekend of October 16th, Beckman Auditorium's hanging golden ball was returned by person unknown, reports a relieved Ramujan Basu, Basu, the Auditorio Services Coordinator for the Office of Public Events, described the find: "It just—whooop!—came back." However, because the ball was now "held by a slip knot," said a bemused Basu, it was not seen at that weekend's events. OPE has no BALLs, page 11.

Brush fires ravage Altadena

by Laurent Stadler

Sixteen fires broke out around the L.A. basin this Wednesday. Of these fifteen fires, 12 are believed to be natural, 3 are attributed to arson, and 1 is believed to be accidental. Governor Wilson has declared a state of emergency. The high winds and sheer quantity of fires are severely taxing the resources of the region's fire department. The closest of the fires is in the Sun Gabriel mountains just north of Altadena.

Altadena area residents said that the fire became noticeable at around 4:00 a.m. Wednesday. The fire grew rapidly and spread outward across the Eaton canyon area due to the Santa Ana winds, which reached speeds of up to 50 m.p.h. By 10:00 a.m., an estimated 1,000 acres of land and several houses had caught fire. While the high winds helped to spread the fire, fire officials said that the large amount of dry brush on the Sun Gabrieles made it all the more intense.

A sizeable amount of information about the fire came from people gathered first-hand, taking Tech reporting in a bold, new direction. After staying up all night, Rich Ztela and I went out for some breakfast. While eating, we heard a conversation about a large fire. We immediately went outside and noticed a huge black cloud of smoke over much of the surrounding area. We got on our bikes and started to ride up Allen. As we passed the 210, we began to notice a large amount of debris on the road and accompanying winds. Once we got to we thought we could see flames, the smoke in the air became too thick for us to ride any further. Rich wanted to take pictures, and we both wanted a closer look, preferably in an enclosed vehicle, so we turned around and rode back to Tech.

After a few more people joined us, we set off in the ASCIFT van, and rode up Allen again. Near the top of Allen, residents had formed a roadblock. We drove up to and someone wearing a JPL badge told us to turn around. We told him that we were press, but he didn't believe us, so we left. Not to be deterred, we drove down and over one street, parked the van and walked. Arriving at the corner of Altadena Drive and Roosevelt, we saw a lot of fire trucks and police officers directing traffic and keeping people away from a burnt section of the hillside. We talked to a few residents, telling them we were from the Tech, and found that most of their homes were hurt, only the surrounding hillside. One person repeated a rumor to us that the police believed that the fire was started by a transient's cooking fire which had gotten out of hand. Later, the Sheriff's Department confirmed that they had arrested a transient, Andrew Z. Huang, at 6:45 a.m. Wednesday morning. Just as we arrived, we witnessed a fire plane performing a water drop nearby.

After closing in on Washington and Del Rey, we went to St. Luke's Medical Center, which was being evacuated. An eyewitness reported that police had been looking for a fire in the center of the morning. Rich talked with some past firemen and went to take some pictures. I approached a reporter from the Pasadena Star News and asked if I could tag along in order to get some real interviews. She agreed, and I went off with her to talk with the hospital administrator. He reported that police, National Guardsmen, and Marines were just finishing up evacuating the 60 patients who were in the clinic that day. He knew of no damage to the clinic and it was not currently on fire. All of the patients were doing well and no one was in the midst of a critical procedure when the evacuation took place. Earlier that day, 25 people were evacuated from the Mateline nursing home.

The reporter and I went over to meet some more people from the Tech. They offered me some stories, and then the four of us drove up to an area where some homes had been burned.

The California Tech

Volume XCIV, Number 6

Pasadena, California

Friday, October 29, 1993

Vincent Price 1911-1993

The funk of forty thousand years

A line of brush fires continues burning a path through the foothills of Altadena early Thursday morning. This photo was taken from the intersection of Fair Oaks and Loma Alta shortly before a large explosion on the ridge above.

Eric Temple Bell (1883-1960) was best known as a mathematician. As Professor of Mathematics at Caltech from 1926 to 1953, he was also an outstanding popularizer of mathematics, inspiring many young people to join the field. His book, Men of Mathematics (1937), which presented mathematics and mathematicians in a way that had never been done before, is still in print after almost sixty years.

Sign-ups are open for the office of Publications Darkroom Chairman. The Chairman, appointed by ASCIFT, is responsible for general control and maintenance of all photography equipment in the Darkroom in the SAC. The term of office will terminate third term when the next Board of Directors appoint a new Chairman for next year. Those who are interested or have previous experience with photo-development are encouraged to sign up. Interviews will be conducted.

"You Can't Take It With You," a comedy by Moss Hart and George Kaufman, opens November 12 at 8:00 p.m. in Winnett Lounge. This tale of anarchism on a family scale is presented by Theater Arts at CIFT, and is directed by Dan Dilling.
Vargas article incorrect

The article you ran last week's Tech (October 22, 1993) about Assistant Dean Frank Vargas (entitled "Vargas Discusses Minority of his statements, I believe that higher international students, but only inter-
national students can truly understand
striction in life-
that many under-represented students face. When Dr. Lee F.
Browne entered Caltech in 1968 as Director of Secondary School Relations, he realized that under-represented students dropped out of Caltech because that had to
just to a completely different cul-
ture. He created the Student Sup-
port Program, now known as the Bridge Program, to help them
make the twofold transition from
High School to College, then from
Person of Color to Mainstream America.

Actually, under-represented stu-
dents help other students with their academic problems. Many of us work with other Caltech students through the Dean's Tutoring Pro-
gram. Others are private tutors in the local community. The tutoring that
took place at the Assistant
Dean's office last year was for stu-
dents outside Caltech. The under-
represented students had an op-
portunity to showcase their aca-
demic achievements by helping others understand the material,
rather than being on the receiving end. The article neglected to clarify these important facts.

We, as under-represented stu-
dents, designed Cultural House
wishing to create a more ambient atmosphere in which to have all Caltech students express their vari-
vous cultures. We realize that col-
lege life is much more of a wonder-
ful experience when everyone comes from the same background and wishes to share them with others.

It is my wish that we, as a Caltech community, can show more con-
cern for ourselves, and the diver-
ity we have. The underrep-
resented students, the minority
ners in number, and hopefully
not in spirit.

Edryn Coles
President of the National Society of Black Engineers, Caltech Chapter

Dear Ernest,
Why is it that the only water conservation that takes place on
campus is due to the "no-lo" shower heads in the student houses?
-Not-as-wet-as-I'd-like-to-be

Dear Mr. Schneider,
The strange distribution of water pressures over the southern half of
the Caltech campus is mainly due to the limitations of the old
plumbing.
The water supply for the Athenaen, the South Houses, and
many of the older labs to the south was designed in the early 1920's by
Elyse Seymour, a native Los Angeles architect and engineer.
Seymour was an ardent follower of the famous occultist and author
Aleister Crowley, and incorporated many of Crowley's bizarre ideas into
his plumbing scheme, most notably the alignment of the main
cold water pipes to "lay lines," imaginary arcs of energy running over
the earth's surface along great circles.
Seymour also designed features of the South Houses' plumbing
whose purpose cannot be determined, such as several large, zinc-
lined tanks hidden in the walls which are connected directly to
natural springs beneath the Houses and kept at a constant high pressure by one-way valves. When municipal water pressure
was increased by 50% in the late 1940's, Physical Plant discovered that
a delicate balance of pressure (such as the limited shower pressure
you complained about) was necessary to keep the tanks from leaking
or bursting, as many of the potable water feeds are connected
directly through them. Improvements to the plumbing have never
been practical, as most of the pipes are actually encased in the concrete of the walls. Seymour collected and burned all of the
plans shortly before his 1938 suicide.

The California Tech
Volume XCV • Number 6
October 29, 1993

Ernest Tomlinson
Explain

Dear Ernest,

CRIME AND INCIDENT BEAT
by Gypsy Achong

Crime Tip: Do not fall asleep without first securing your valu-
able somethings, perhaps a friend's room.
10/15 6:00 p.m. to 10/16 6:00 a.m. A bike was stolen from a Fleming
state him. The bike was locked with a
adjustable and removable seat. The U-lock was not taken.
10/22 7:00 a.m. to 10:00 p.m. A student's vehicle, parked at San Pasqual
between Holliston and Hill, was broken into. A stereo system and
36 tapes were stolen. The keywells were damaged and dented
suggesting that the lock was forced.
$350
10/22 3:00 p.m. A student was robbed at gunpoint outside of his apartment at 180 S. Catalina (Non-Caltech housing). The thief
was described as a male hispanic in his mid twenties, 5'6" and
approximately 160 lbs.
10/25 8:00-8:30 a.m. A backpack was stolen from a couch in
dabney House Lounge where its owner was sleeping. The
backpack was later found but a calculator and
40 was missing.
$40
The last backpack that was stolen like this from Bicketts
House was found with nothing missing.

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gypsy Achong
Angola
The U.N. announced that Angolan government and UNITA rebels would meet to discuss ending their war. The Rebel leaders said that they will accept election results from last year that they initially rejected as rigged.

Bosnia-Herzegovina
A former Muslim Militant Abdul, who recently declared the Bihac area in northwest Bosnia to be an Autonomous Province, signed a cease-fire agreement with Bosnian Serbs. The agreement is not expected to have much effect.

Burundi
Former President Jean Baptiste Bagaza led a military junta in a coup against President Ntaryamira, raising concerns about democracy and ethnic fighting. After loyal and rebel troops fought at the national capital, President Ntaryamira is believed to have been killed. The coup, led by hard-liners, stops Burundi’s progress toward democracy. The U.S. and other Western countries immediately suspended aid to Burundi. The coup also raised concerns about ethnic fighting. The coup was largely led by minority Tutsis, while Ntaryamira was a Hutu. Historically, the minority Tutsis have ruled over the Hutus, who make up 85% of the population of Burundi. Since Burundi became independent in 1962, tens of thousands of Hutus have been killed in ethnic fighting. The army, reported to largely support the coup, is largely led by Tutsis.

Canada
The Liberal Party won a majority of 175 seats in House of Commons, making Jean Chretien the new Prime Minister. He replaced Brian Mulroney, who had led Conservative party only kept two of their 153 seats. Two seats is not even enough to form an official party status in Canada. The Bloc Quebecois did well in Quebec, getting 54 seats, and the Reform Party got votes in Alberta, getting 52 seats. The Liberal New Democratic Party received 8 seats.

El Salvador
Vells, a senior official in the leftist Farabundo Marti National Liberation Front (FMLN), was killed by two gunmen. U.N. peacekeepers are reporting a rise in death-squad-style killings, but it is not clear whether the killings were by police, FMLN, or vigilantes.

France
A Pasteur Institute team said that they have found that a receptor molecule, named CD26, is used by all strains of the AIDS virus to enter red blood cells. They expressed hope that this discovery could lead to an AIDS vaccine.

Georgia
The Georgian government returned the key transport city of Tbilisi, possibly with Russian help. The city was recently taken over by rebels led by ex-President Zviad Gamsakhurdia, and is an important transport point between the capital of Tbilisi and the Black Sea. There is evidence that Russian troops provided the Georgian government with weapons and men.

Haiti
Opponents of Aristide proposed an 11-point plan for his return. He could return as president if he would include some political opponents in his government and not punish those who led the coup. Clinton said that the proposal was a good sign. Deposed President Jean-Bertrand Aristide hinted that he might return to Haiti on the October 30th date set by the U.N.-mediated agreement, even if the Haitian military continues to resist his return. U.S. officials voiced concerns that his return could set off violent fighting between the military and the masses who support Aristide. A two-year-old CIA report, used for briefings in Congress, characterized Aristide as mentally unstable and said that he had encouraged violence against his political opponents when President. White House officials disputed the report, saying that Aristide has been "rational and responsible." Aristide denied the report’s claim that he was in a mental hospital in Canada in 1988, and diagnosed as manic depressive.

India
Paramilitary police fired on supporting militants in Srinagar, killing 37 and wounding 100. Some witnesses said that the police fired without warning. The militants in Srinagar seized the Hazratbal shrine on October 15th, causing a week-long standoff with Indian authorities. The shrine is believed to have a hair of the prophet Mohammed.

Iraq
There were unconfirmed reports from Iraqi opposition that chemical weapons were used on Shiite dissidents, killing hundreds. A British official said that it was unlikely that chemical weapons were used, but that white phosphorus, which is not considered a chemical weapon, might have been used.

Israel
The Israeli government released 700 Palestinian prisoners under the terms of a recent peace agreement with the PLO. Asad Safawi, Palestinian politi­cian and friend of Yasser Arafat, was killed. He is the third Palestinian to be killed since the Israeli-PLO agreement on terms for Palest­inan self-rule. The Arab Pales­tinian organization denied responsibility, saying that Safawi had "treacherous contact" with Israeli intelligence.

The Palestinian pro-Iranian Islamic Resistance Movement, also known as Hamas, killed two Israeli guards in the Gaza Strip, defying the recent Israel-PLO peace agreement, and vowing to continue the intifada.

Somalia
After U.S. officials announced that the U.S. would not attempt to disarm the rival clans, to capture Aaidil, clan leader Ali Mahdi Mohammed was warned that his policies would lead to a new civil war. There has been evidence that the rival clans in Somalia are rearming.

Ukraine
Russia's Parliament voted 228 to 38 to keep the Chernobyl nuclear power plant running, and restart the 10 reactors at the nuclear power plant. After the Ukraine left the Soviet Union, the Parliament voted to have Chernobyl closed down at the end of 1993. Energy Minister Vilen Semenikiu argued for keeping Chernobyl open, saying that the plant could provide much needed energy, while Environment Min­ister Yuri Kostenko said that the plant should be closed.

Ukrainian President Leonid Kravchuk announced that he wanted to get rid of the 1,800 nuclear weapons that were left there after the fall of the Soviet Union. He also said that he was not sure he could get the Parliament to go along, and asked for billions of dollars of aid to defend against Russia. U.S. Secretary of State Warren Christopher announced $330 million in new U.S. aid shortly after Kravchuk's announcement.

United Kingdom
The Irish Republican Army set off a bomb in a building in Belfast, claiming that the building was being used for a meeting of the Protestant paramilitary Ulster Freedom Fighters. Nine were killed and 50 were injured. The Ulster Freedom fighters threatened retaliations. Both of the groups are outlawed.

United States
The Senate voted for legislation which provides for 600 more Border Patrol agents and $171 million for federal immigration services. After lengthy debate over Clinton foreign policy, the Senate rejected, 81 to 19, a bill forbidding Clinton from sending troops to Haiti. The Senate then passed, 86 to 2, a bill requesting that Clinton certify the sections of the Senate before deciding to intervene in foreign countries.

There were fires in Southeastern United States.
The California Tech

October 29, 1993

ADAM VILLANI:
MEDIA GUY
by Adam Villani

The Police
"Message in a Box: The Complete Recordings"
What can I say? Listening to this actually made doing my 106 enjoyable. I was really into the Police back in about fifth grade, and this new compilation just made it clearer why the Police were such a great band. Stewart Copeland was an incredible drummer, Andy Summers was an awesome guitarist (much better than any of those "guitar hero" wannakes like Joe Satriani), and Sting was a great songwriter.

This 4-disc set has everything the Police ever released, including all of their albums, B-sides, and songs that turned up on compilations. The sequence of the original albums remains intact, and the packaging and booklet are pretty cool. The only flaw I think I can think of about this release is that it includes their extra-lame 1986 remake of "Don't Stand So Close to Me."

The Decline of Western News Media Part II: Time Magazine
The two most recent cover stories of Time Magazine seem to be saying, "We're giving up. We're not really serious about news. Go read the New York Times." Last week's Pearl Jam cover story seemed like something Rolling Stone would write if they weren't as good as they are. The worst part was the little box showing different hands fitting into different sub-genres of rock throughout the decades. They ended up putting the P.J.'s in the same category as the Black Crowes. If you can't think of decent pigeonholes to stick artists into, don't print an idiotic attempt like this. This week's cover features Howard Stern and Rush Limbaugh spewing fire into a microphone. Ew.

If all of your friends jumped off a bridge... Disney released new prints of "The Program" last week with a scene cut out featuring a football player lying down in the middle of a highway to prove how tough he is. This is in response to media (and other incidents) trying the same stunt after watching the movie. Of course it's tragic that a kid died, but I refuse to believe someone would do this without being a grade-A moron. Sometimes people do risky things, but sometimes people do things tantamount to suicide. Furthermore, this comes at a time when it seems like the media is being blamed for everything from riots to bad breath. Atty. General Janet Reno has threatened to virtually suspend the First Amendment, while the mainstream media claims that they innocently reflect trends in society. Both of these views are dangerous, as our freedom must be preserved, but the media must admit how powerful a tool it is and take responsibility.

Pearl Jam's 'Vs.' kicks
by John White

It seems like yesterday, not two and a half years ago, that I was hearing Pearl Jam for the first time on "Saturday Night Live." Since then, their debut release, "Ten," went platinum-plus, the group was nominated for several Grammys, and the video for their single "Jeremy" swept the MTV Music Video Awards. Last Tuesday, Pearl Jam offered their sophomore effort for public consumption. I think that it is too early to make predictions about whether it will do as well as "Ten," but living up to a wildly successful album is very difficult to do (as Nirvana have found out.) However, I think that Pearl Jam has delivered an album of songs ranging from loud to tolecular. Without any further delay, here are my song-by-song impressions of the album.

"Jeremy"
As my roommate said, "Is this the new Helmet single?" No, it isn't. "Go" combines Jeff Ament's driving bass line, reminiscent of the Red Hot Chili Peppers, with Stone Gossard's quick, complex guitar and Eddie Vedder's powerful voice to form one of my favorite tracks on the album.

entertainment
Games & Puzzles: Hit or Miss
by Wei-Hwa Huang

I found a game called Hit or Miss in one of those giant card Solitaire companions. The basic idea is simple: take a shuffled deck, and deal out the cards face-up one at a time, calling out "Ace," "Two," "Three," "..." "King," "Ace," and so on. If you match the card at any point, you "hit," and you get the reward of removing the card. If you remove all the cards, you win. Some versions of the game add stipulations, like: if you go through the deck three times without a removal, you lose; if you hit twice in a row, you lose; etc. Certain multi-player games, such as Heart Attack, work on a similar principle. One my friends, Jim Quinlan, tells me that he knows of people who give odds of 10 to 1 that you'll get a hit the first time you go through the deck. How do you know if this was close to fair.

Well, Euler once solved the "envelope problem," which is: say you put n letters into n corresponding envelopes at random. How many ways can you place them so that no letter is in its correct envelope? He solved this by an extremely elegant recursive formula, and was able to get the answer in summation form. When you divide his answer by the number of ways to place letters in the envelopes in any order, the series looks suspiciously like a Taylor series. It turns out that this series converges to 1/e, where e is Euler's famous calculus constant, equal to approximately 2.718. In other words, I've got a 1 in e chance of not getting a match at all. The odds of 10 to 1 assumes that the probability is around 1/11, or 1/e, which seems to make sense because you're not calling the suit and number, just the number, so you should divide the probability by four. This isn't a very convincing argument, however. Anybody else have any ideas?

Speaking of betting on these games, here's another game: This person gives me 13 cards in one suit, a nicely corrugated card tray with 13 slots (each marked with a different denomination), and $10. Sounds like a good deal so far. I pay $1 to shuffle the cards and deal them into the slots, face down. I then remove all cards that don't match, and then pay another dollar to deal into the empty slots. This continues until I get all the cards into the correct slots. I get to keep the cards, but I have to return the tray.

Question: Who has the advantage (assume that 13 cards cost $1 nowadays)? Answer next issue.

Solution to last week's Open Poker:
First player (non-dealer) has the win. You can do this by picking up, say, four tens and a three. This effectively stops dealer from ever getting a straight flush higher than a nine, which you will get next turn no matter what dealer does. Some other combinations also work on see GAMES, page 13
The History of the Citibank Classic Visa card and the Age of Credit Card Security. In the 67th year of the 20th Century A.D., Citibank introduced a credit card aptly titled the Citibank Classic Visa® card. Established on the premise that a credit card should offer—24 hours a day—warm, personal service, the Citibank Classic Visa card marked the end of the Ice Age. And it ushered in a new era. With the introduction of the first Photocard, the credit card bearing one's own photo and signature on the front, it soon became evident that Man was entering the Post Paleolithic Period. First, Man was no longer looking like a Neanderthal, as one often does on more primitive cards such as the Student ID. He or she could now choose his or her own photo. Second, by deterring other anthropoids from using the card, Man was helping to prevent fraud. Surely this was a sign of advanced intelligence. The subsequent rise of services was nothing less than an American Revolution. So as you might expect, Citibank would be there for you, even if your card was stolen, or perhaps lost. The Lost Wallet Service could have a new card in your hands usually within 24 hours. (You can almost hear Paul Revere crying, “The card is coming! The card is coming!”) When the Great Student Depression came along, Citibank introduced New Deals—special student discounts and savings. Hence, today's student can enjoy a $20 Airfare Discount for domestic flights (ushering in the Jet Age); savings on mail order purchases, sports equipment, magazines and music; a low variable interest rate of 15.4%; and, no annual fee. Finally, comes the day you enter the Classical Age (i.e. when you charge your purchases on the Citibank Classic card). You receive Citibank Price Protection to assure you of the best prices. Just see the same item advertised in print for less, within 60 days, and Citibank will refund the difference up to $150! You receive Buyers Security, to cover those purchases against accidental damage, fire or theft, for 90 days from the date of purchase. And Citibank Lifetime Warranty, to extend the expected service life of eligible products up to 12 years! Together they give you complete coverage; and with everything else...the Age of Credit Card Security. It's credit history in the making. With the help of Citibank's services and savings, you earn some of the credentials needed later on to purchase a car or even a house. So call to apply. Students don't need a job or a cosigner. Call, also, if you'd like your photo added to your regular Citibank Classic Visa card. The number is 1-800-CITIBANK (1-800-248-4226), extension 19. If after reading this chapter describing the prosperous conditions set forth by a Citibank Classic Visa card, one feels that he or she has left forever the Dark Ages and has entered upon a new age, the Age of Enlightenment, then your time, as they say, has come. Destiny is calling. And so should you.
Juggle and Hyde

by Michael Kantzer

In their fourth appearance at Caltech, the Flying Karamazov Brothers performed "Juggle and Hyde" to a packed Beckman Auditorium. Their unique blend of musical comedy, offbeat humor, poetry, and juggling prowess entertained and amazed the crowd. Following a humorous introduction, the show opened with glasses in-the-dark balls being juggled on a dark stage. When the stage lights arose, the four Karamazovs appeared in front of a tower of books. While providing a backdrop, a series of boxes played the part of the first musical piece. Eight balls of various sizes were used as drums in a percussion piece.

After reciting a haiku, the brothers began juggling balls off various parts of his anatomy. It was an extremely creative approach to performing percussion.

The Flying Karamazov Brothers performed a mix of ball and hip-hop attributed to Musolini. This was followed by another haiku:

Box flies like a bird
Time flies like an arrow but Fruit flies like a grape

The next skit was the largest musical number of the night. Three of the four brothers each wore four electronic drum pads. While juggling, they bounced the clubs off the drum pads and played a cadence that many marching bands could only dream about. The fourth brother then entered the stage. Wearing a body suit with small touch pads, he proceeded to add his own melody by bouncing juggling balls off various parts of his body. The show emphasized quirkiness over quantity. Only one routine involved more than three clubs per brother, and that one had a total of fourteen clubs. The poetry and humor showed influences from Monty Python, and the musical pieces were beyond description. In short, "Juggle and Hyde" was delightful entertainment.
Pearl Jam

amount of emotional energy. This song kicks.

At first, I wasn’t too impressed with how the music itself was written, but Eddie Vedder’s enthusiasm makes up for a lot. The more the energy of the song rose, the more I enjoyed it.

This track is totally different from the one I’ve enjoyed so far. I obviously cannot afford a black card, so I toss a diamond. Hopefully, they won’t break and I will be ahead of everyone. I don’t want to squash dummy any further, so I continue with a spade to the King, which holds. I exit and I will take the second spade, up pops the Ace as expected. Now I can afford to unblock.

On the second round, up pops the Ace as expected. Perhaps partner is used to my competitive INT bids and knew not to continue. Maybe he was just sleepy. All is well, though, and I am pleased with the 10/2 opening lead. This has the unfortunate effect of knocking out my only sure hand entry entirely. I’ll have to rely on the spade to the King, which holds. I exit with a low diamond to my Nine and West’s Jack. This means the he has both diamond cards and the spade Ace. That means the he has the club Queen and his partner the Ace, unless she has responded on total cheese. It’s still possible, though. After a little thought, the presumed 12-count continues with another heart. I don’t need the club third from dummy anymore, so I win and pitch a club from dummy. On the second spade, up pops the Ace as expected. Neither the 9 or 10 was doubleton, I can’t afford to unblock. Still unwilling to continue clubs, he continues with the Q and I win. Diamonds turn out to be the other high diamond, so on the fourth diamond, East is squeezed in an interesting way.

I am going to pitch the small club anyway, but East has a problem. She obviously can’t pitch a club honor or a spade, so she stuffs her honor. If her club is the Queen, because then her partner will be in a dilemma. He can either let the club hold, letting me play the stone work anyway, or he can overtake, winning a trick for the knob. To my dismay, she had the Ace and diamonds were 3-3 all the time, so I got myself an average for 190.
WHAT TO TAKE FOR YOUR NEXT ALL-NIGHTER.

NO ANNUAL FEE,
A $1,000 CREDIT LINE,
AND NATIONWIDE ACCEPTANCE.
HOW'S THAT FOR AN EYE-OPENER?

IF YOU DON'T GOT IT, GET IT.
Water Polo battles Chapman, Claremont

by Hans Hornestein

Wednesday, October 13th, marked the final chapter in the Caltech-Chapman 1993 trilogy of games. The mean, lean Chapman squad had defeated the Battling Beavers at their home pool at Orange High School and in the Pomona tournament. Needless to say, the Beavers were eager to avenge those losses in their home pool.

The game started well for the home team, with Sonny Arcilla scoring on a man-up opportunity to tie the game at 1-1, followed by a two-point goal from Jason Hong and a hole shot by Chris Buchner to give Tech a 4-1 lead halfway through the first quarter. However, Chapman answered with a two-pointer and goal of their own to end the first period at 4-4. Sonny opened the second quarter with another score to put Tech ahead 5-4, but Chapman came back to tie the game on another man-up goal. They then went on a four goal streak to open up their first lead to 9-5. Another Jason Hong two-pointer and man-up goal brought Tech to within one, but that was as close as they were to get the rest of the game. A shot partially deflected by Tech goalie Jamie Sherman closed out the half’s scoring at 10-8.

The lone highlights of the third quarter were a sweet Buchner goal and a rare block of a 4-meter penalty shot by Tech goalie Hans Hornestein, his second in two games. The Beavers had many man-up opportunities, but could not get the ball in the cage. The fourth quarter showed a tiring Beaver squad getting out-swum and out-worked. Despite this, Buchner put another shot in, and Milkey Ng pushed in a rebound to help the Beavers tie their best offensive output of the season. A final two-pointer shot from Chapman with 22 seconds left sealed the game’s final score at Chapman 23, Tech 11.

The next Wednesday, after an inspirational visit to the Cal-UCLA game that weekend, the Beavers opened their conference season at home against formerly nationally-ranked Claremont, who were looking for their 11th consecutive conference win. Again, things looked promising in the first quarter, as halfway through, the score was tied at two. Despite excellent pressure on Claremont’s hook men resulting in numerous turnovers, Claremont’s offense managed to pull away to an 8-4 lead at the half. A third quarter slump in defense and execution allowed Claremont to increase the lead to 18-8 after three. The Tech defense tightened up in the final stanza, but still did the Claremont D, finishing the game at a 22-8 final. The Tech goalie finished with 10 blocks, and the Tech defense did not allow a single two-point goal for the first time all season.

Throughout the 23rd, the Beavers travel to Claremont and their new 30 meter pool for the Claremont tournament, where they will face top-twenty-ranked Division I teams for their first two games. They face the Air Force Academy in the morning, followed by Villanova in the afternoon. All members of the community are welcome and encouraged to come to Tech home (and away) games, held Wednesdays and Saturdays until Mid-November.

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Fire

been burned. What struck me immediately was that homes did not seem to burn down in contiguous blocks. Instead, houses which were burned to the ground were scattered among undamaged homes. When we interviewed the neighbors of a family whose house burned down, I found out that there had not been much ground fire in this area, but many embers had rained down. Most residents had climbed onto their roofs and started hosing their houses down, and were highly successful in preventing the destruction of many homes. Unfortunately, some residents had already left for work or slept through the fire and were thus unable to protect their property. This resulted in a number of houses burning down, but luckily, no one was injured. After talking to the residents, we went over to the Nature Center, which used to be a park and natural awareness center, but was burned down completely by the fires. Many residents expressed dismay over the loss of the center, but were glad that there homes were safe. The Star reporter went to call in again and was told to come back to the office, so I rode with him back to Tech.

The Tech staff would like to thank Dr. Hajer, Dick Bungle, and Gillan from the Star-News for their help.
**Sports Results**

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The ball (in reality a light metal sphere painted light gold) was taken from the Beckman inner dome this past summer.

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  - Sony 314 W/SCSI card $189
  - Mitsumi, 350ms W/SCSI card $180
  - NEC 84JD1, 200ms W/SCSI card $395
  - Toshiba 3410B1, 200ms W/SCSI card $495
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  - Media Vision Pro Audio Spectrum $180
  - MITAC Multi-Media W/Sound Galaxy Pro & 5 CD, Mitsumi CD ROM, Speaker $395
  - Media Vision fusion CD 16, Sony CD $495

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  - Conver 250MB W/3M tape $965
  - Conver 4320RT 2GB (Int) $915
  - Colorado DJX-10 12MB $155
  - Colorado DJX-20 250MB $195
  - Colorado DJX-20 12MB $315
  - Colorado DJX-20 (Ext) $395

- **Tape Backup**
  - Conver 250MB W/3M tape $195
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  - Conver 4320RT 2GB (Ext) $915
  - Colorado DJX-10 12MB $155
  - Colorado DJX-20 250MB $195
  - Colorado DJX-20 12MB $315
  - Colorado DJX-20 (Ext) $395

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  - 14" SVGA (28) $245
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  - 14" SVGA (28) 72Hz NI $295
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  - 17" SVGA (28) (Int) $795

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Raise up to $1,000 in just one week! For your fraternity, sorority, and club. Plus $1,000 for yourself! And a free T-shirt just for trying. (800) 932-9026, ext. 75

**HELP WANTED**

CANCAN a car vanish from police label in a manner consistent with TCO regulations? If so, we need to talk. Outstanding opportunity! Mike Holcomb, Presid­ent, Jammers, Inc., Douglas, Wyoming, (307) 345-1065.

**REAL ESTATE**

QUIT RETREAT / EAST PASADENA CONDO $995. Best top floor corner unit in this great east Pasadena location. 1 large bat­tle-size master bedroom with tons of street space. 1 bath, fireplace, very bright & light with many sights. No big patio with two beautiful views located in a househouse park-like setting. 125 N. Allen St., Pasadena. Creative leasing available. (818) 576-7499.

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OWN ROOM in 2-bedroom/1-bath house off 1st floor, near campus. Use of kitchen, 3 bathrooms, with study. 100x150 sq. Great nice garden, many fruit trees. 1035 Del Rey St., Pasadena. Call Del at (818) 898-1999 for appointment. Hurry! Won't last.

**SERVICES**

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For private sources. Take action to secure your future schooling now. Minimum six sources guaran­teed. (818) 322-3073 (ask for Dreams).

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Note: dates denote new announcements.

- The German Film Series continues with Die Superstar (1974) at 7 p.m. on Monday, November 8 in the Science Center. Free of charge. For further information, contact the Office of Film at 725-3777.

- Wellness Week/Health Fair Committee—Students and faculty are invited to visit the open house Monday, November 8 from 4 to 8 p.m. in the Student Health Center. Please bring your health record. Location: First Floor, B-1.

Mark Russell will present "The Laughter and Song of Politics" on Friday, October 28 at 8 p.m. in Caltech's Student Union, Multi-purpose Room, Avenue - South of Old Del Mar Hall.

The Los Angeles Branch of the Ortosis Division of the Los Angeles Chapter of the Jewish Disability Services Association of California are holding their 3rd Annual Free Information Fair and UNWALKathon Registration begins at 9:00 a.m. in the LULahallach. Registrations for the LULahallach begins at 9:00 a.m. The Free Information Fair opens at 9:00 a.m. For a brochure and information call 725-3777.

Work Abroad Meeting—Tuesday, November 9 from 12 noon until 1 p.m. in Winston Lounge. Participants of this meeting will be able to discuss ideas for future work abroad programs. The discussion will be open to all interested students. Please give your name, your favorite places of work abroad and how many days you usually work. This will help to estimate the number of flights we will need and the most favored toppings.

Events & Services

- The Caltech Hillel Student Union (Branch) for Electrical and Electronic Engineers will be meeting Wednesday, November 3 at 7:30 p.m. in the Electrical Engineering Building, 2nd floor lounge. The union has held a successful union in similar organizations in such EE, CS, and APS. The characteristics of their organization and the future opportunities in these majors will be discussed. Among other groups, particularly encouraged to attend. The meeting is open to all.

- Amnesty International Group 22 Fundraiser/Caltech will be held in the Caltech Caucus and Library Writing Hour on Thursday November 4 at 7:30 p.m. with a special viewing of the film. There will be an independent nonprofit organization which campaigns for human rights. The film, The Politics of the Past, is an evening of screening, conversation, and action. For more information, contact Jim Smith (smith@caltech.edu) at (818) 793-4735 or Jennifer Lisden (lisden@caltech.edu) at (818) 793-5171.

- The Rolling Hills Y Wind Ensemble will be shown on Friday, November 5 from 7:30 to 10:00 p.m. in Burtis Lecture Hall. Sponsored by Amnesty International.

- You Can't Take It With You—Come see Tachis in TACIT's production of this immortal comedic masterpiece on November 5 and 6 in the Student Union, WWII Rooms. No. 15, 19, and 20 with matinee on November 6. Call (818) 793-4735 for tickets or stop by at the box office at the door through the Caltech Ticket Office ($8.00 for $8.00 or $4.00 for Caltech students.

- The California Tech Fine Arts Office will have an open house on Saturday, November 6 from 1:00 to 4:00 p.m. in the California Tech Fine Arts Building.

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