Brown To Speak On Defense Policy

by Lily Wu

Harold Brown, past President of Caltech, will discuss a Reagan Administration defense policy on Wednesday, Nov. 7.

Brown is Secretary of Defense in the Reagan Administration. The talk, entitled "The Strategic Defense Initiative:

A Debate about the Pros and Cons of Different Systems," is sponsored by the California Seminar on International Security and Foreign Policy.

Brown defeated the San Diego Cougars by air (Lee Mallory) and by land (Martin Brouilette). Details on page 9.

Grad Rents Increase

GSC: Housing Office Policies Unfair

by Tony Stirk

The Graduate Student Council (GSC) is concerned about the operation of the Housing Office at Caltech.

Chief among these concerns are increasing rents, lack of parking, and maintenance problems.

Three years ago, a room in the graduate dorm was $120 a month. It is now $180 a month.

Although room rates have gone up 50% in three years, graduate pay has not. For example, a Graduate Research Assistant (GRA) in Chemistry was paid $6726 three years ago and will be paid $8016 this year.

The Consumer Price Index for LA-Lone Beach, in constant dollars, $6726 would be $8437 now. And, while student's buying power fell, his rent increased substantially.

He paid 22% of his salary for rent at the graduate dorm three years ago, but is paying 37% now.

Some departments pay their GRAs much more, and some much less, but the pattern remains the same: more of a graduate student's pay is going to housing costs than before.

Moreover, the graduate students receiving the lowest rates of pay are new to Caltech, those most likely to be higher. Unfortunately, these first year graduate student rates were not offered the cheaper dormitory space in Housing Office mailings to new graduate students in an effort to fill all the rooms.

The best bargain for graduate students is Caltech owned off campus houses. A room in one of these houses would typically be $130 a month.

This is changing, however. In September, the cost of three increases in an 18 month rental increase plan was made. For some of these properties, 15% increases are planned.

Grad Rents Increase

by Lily Wu

Caltech and The Rand Corporation.

The talk, beginning at 4 p.m., is free and open to the public.

For example, the house at 290 Holliston was renting for $320 in February of 1984. In September of 1985, the rent will be $500, a 56% increase.

Chief among the reasons given by the Housing Office for these rapidly escalating prices were that provisions were being made for increased maintenance and that prices are being set to reflect housing prices in the private sector. An informal GSC survey found that maintenance actually appears to have decreased.

The Housing Office has been found wanting in its maintenance of refrigerators, phones, heaters, toasters, and furniture in the graduate dorms. The graduate students are being asked to pay higher rents for lower quality living conditions, nor does it appear that the student's buying power has decreased.

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More Involvement

It’s too bad more students don’t stay around after third term finals for the commencement ceremonies. Last year, our own President, Marvin Goldberger, in his closing remarks, made a suggestion: “Think about becoming involved in politics.” For the people who missed his remarks, an abridged, annotated version follows. The complete text can be found in September’s Engineering and Science, from which I am quoting.

“I have much to be serious about, you well know. Students used to be insulated from the problems in the world outside the campus, but that hasn’t been the case for many years now.” [I don’t know about many years ago, but we’re still pretty insulated. You can find out for yourself by simply talking a few to a few of us.] ...

“...How can you contribute to the solutions that are so desperately needed? For some of you the answer will be to join industrial firms... For others the answer is to continue in universities... Both these kinds of careers offer not only personal rewards but genuine opportunities to contribute to the solution of difficult and important problems.” [Administrators everywhere seem to use the word “contribute” a lot. What ever happened to the word “help”? We shouldn’t confuse helping people with writing checks.]

... However, on this occasion, I want to urge you to think about another course... Think about becoming involved in politics. [Bravo. But why soften the punch line: Get involved in politics. Society needs your help.] Not a single one of the problems we have been talking about is missing a strong technical component. [Women’s rights? School prayer? Life isn’t a problem set.] It is a tragedy that we do not have engineers and scientists making decisions at all levels. From local neighborhoods, through city and state government, to the federal government and beyond, in international relations. [There are undoubtedly many government positions in which a science-engineering background would be helpful, if it were available. But knowledge of science isn’t the magic power which will save them. I don’t think that we have to convince ourselves that we’re Bureaucratic Scientists coming to help Stupid Bureaucrats. Anyway, there’s a lot more to political involvement than making decisions in a big office building.]

“Caltech alumni, faculty and administrators have taken important appointments in government... But we have never to my knowledge had a governor from California and only a couple of congressmen.” [There is one senator—Harrison W. Schmitt. [I remember distinctly that Goldberger didn’t mention Schmitt during his remarks. (Remember, I’m quoting the extended Ed’s version.) At least, the omission isn’t in print.]

“But... am I setting my sights so low?... I’d like to see a Caltech graduate as president—one of you, say, in 2004. So go for it, and I promise to do everything in my power to be there for the inauguration."

I appreciate Goldberger’s remarks. I hope students seriously consider his suggestion. But I’m sorry that he makes the error so many of us make in thinking about people and what they are trying to do. In our world, painters paint, actors act, and farmers farm. Painters aren’t supposed to sell, actors aren’t supposed to farm, and farmers aren’t supposed to paint. Life is split into “work” and “leisure,” and people these days aren’t supposed to do anything important and substantive outside of work.”

Modern leisure is oriented toward consumption and sensualization. Leisure time is the time in which we’re supposed to spend the money we earned at work.

The point is that one doesn’t have to devote one’s career to political involvement just to get involved. The amateur tradition in politics goes back a long way. The Founding Fathers were a bunch of amateurs. They, and lots of other people, have, and since, have found some things important enough to devote time and effort to,

The Caltech Y Fly-by

Friday... November 2

Noon, concert. Communication Gap, that’s not the name of the band, I don’t know what the band is. See for yourself at noon, on the Quad.

Philharmonic trip tonight. If you signed up, (and you know who you are) be there.

Sign up today for Philharmonic trip which will be on Friday November 9.

Monday... November 5

“Mark Twain for President,” presenting his views on contemporary issues. Baxter Lecture Hall 8:00 pm.

Tuesday... November 6

Election day.

Wednesday... November 7

Noon Update, Neutrinos from Heaven and Earth. John Scocca, Graduate Clubroom 1, noon, bring a lunch and a friend.

Thursday... November 8

The life and views of Bertrand Russel, Lecture with slides, presented by Al Stekel, Winnett Clubroom 1, noon.

Friday... November 9

Noon Concert, to be announced.

Philharmonic Trip. The program consists of works by Beethoven, and Schoenberg. (See above)

For more information, contact the Caltech Y at 356-6163, or just drop by.

by Mike Chwe

Notes from here

To the Editor:

I had a chance to test by assessment of what was being named before, when I was actively trying to change rotation to give the students a chance to work in the buildings. Reality exceeded anticipation. While remaining/cataloging the building, he had no say in the final vote brought before the IHC. Richard helped me get a deal, devoting time and effort to explain the logistics of effecting change, and to point out how certain details in my proposal for change would cause problems, and how these might be improved. He and the MOSH, Chris Breenes, basically provided me with invaluable assistance in getting a sound proposal presented to the IHC, where it could be voted on. I was very impressed by how Richard handled the whole affair.

In short, Richard Murray presented his proposal, and he delivered. He does not deserve the off-hand criticism it received in the Gadfly.

---Art Devulder
EVENINGS time. It's true that the faculty-student conference that
Block North of California
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DiKOUnt
letters

ASCIT Is Active

To the Editor:

In response to your article on ASCIT officers in the Tech
last week [Gadfly, Vol. 2, No. 3], I would like to enumerate
some of the things that are cur­
rently being done by the BOD.
I think this time you've gone a
little far afield in your search
for things to complain about.
We would like you to spend
some time finding out about
some of the things that are cur­
rently being done by the BOD.
I think this time you've gone a
little far afield in your search
for things to complain about.

To meetings and talking with
BOD members, but since you
weren't willing to take the time
to do this before writing your
irresponsible and unfounded
article, we'll help you out.

Let's talk about "student
life" for a moment. If you had
been at the last few meetings
you would have heard Paul
Graven talk at length on that
very subject. If you had read
the minutes recently you would
know the following: Dan
Schwartz is currently involved
with the housing office in buy­
ing ice machines for the stu­
dent houses to help ease the
problem that arises with the
need for ice at parties, beach
runs, or just personal use. Dave Parkinson is in the pro­
cess of negotiating the leasing
of copiers to be placed in the
student houses which would be
available 24 hours for students
and could accommodate
everything from special pro­
jects to class notes. I myself am
presently working with Ken
Schmitz at Physical Plant on
buying a new ASCIT van,
allowing houses, clubs, or
groups of individuals to go on
long trips with minimal ex­
 pense.
You seem to be asking, well, why hasn't this happened
sooner? The answer is very
simple—irresponsibility. Not
by the BOD, but by the student
body. All year the BOD has
been paying for the various ex­
penses caused by dishonesty
and negligence among the cam­
gus community. Just the
WATS line alone cost us
$5000—to pay for students
who used a false account
number or took off without
paying their bills. It's taken a
year and a half to clear up the
mess, but if you'll notice, the
WATS line is back on again
and currently administered by
the Institute. We made sure
that you'll never again have to
pay for other students' dishon­
esty. A further expense was
incurred when various houses
took off for the summer
without paying the bill for the
ASCIT informal (some of
them still haven't paid!). This
put us out around $3000 this
summer and coming as it did
directly after the WATS line
bill left us completely broke for
a long time. It's true that the
books are better and more
organized than they've been
since I arrived at Caltech (come
and see for yourself), but we,
like everyone else, are working
with a finite amount of money.

Even without much money,
there are other things we've
been doing all year that will
soon be of direct benefit to the
students. For almost a year
now, we have been pushing for
the refurbishment of the Win­
nett basement, which is one
solution we came up with for
the more or less non-existent
"student center" that we have.
The floor plans, which were
drawn up by Chris Brennen,
are currently being reviewed
for a cost estimate and in­clude
space for a real jam room with
soundproofing, pool/game
rooms, OWC office, ASCIT
office, student shop, and an
extra room for any group to
use that needs it. After the cost
estimate, these plans will have
to pass the institute budget
committee before being im­
plemented. Jim Morgan
estimates that this will take ap­
proximately until the end of se­
mester term, and we on the BOD
are doing all we can to con­
tinue facilitating this transfor­
mation.

Another behind-the-scenes
area in which we are still work­
 ing arises directly from the
faculty-student conference that
was run by the BOD last year.
For instance, 1, as head of the
Chem 1 committee, am busy
following up on the various
changes that were agreed upon
by the majority of the students
and faculty at that time, i.e.
recommending Chem 1 to 9 un­
its, and major restructuring of
the course in terms of the pro­
fessors teaching the course, the
materials taught and the con­
tinuity of those materials. A
formal proposal is now being
drafted by the chemistry cur­
rriculum committee to be
presented to the institute com­
nitee in November. If passed,
these changes would come into
effect next year. I know also
that several other committee
heads are still working with
professors on other proposals
that came up, most notably in
the humanities and social

continued on page 5

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**Get A Grippe On It**

**Influenza Symptoms/Remedies**

by Miki Goodwin, R.N.

Influenza, more commonly known as flu, is a highly contagious viral infection and often occurs in epidemics in that many people from the same area at the same time get similar symptoms.

The symptoms are a little different from those of a cold and have a characteristic of coming on much more suddenly—event within minutes. The most outstanding early symptoms are severe body aches and a feeling of exhaustion usually out of proportion to the other symptoms of a slight fever and chills. Generally, nasal congestion and stuffy nose are not associated with the flu but a sore throat and dry cough may develop.

Treatment is much the same as that for the common cold (last week's Body Shop). Rest in bed, drink lots of fluids, gargle for a sore throat and take aspirin or Tylenol for the fever and aches. This will relieve the symptoms considerably but it will take 4-7 days to be cured of viral infection. However, if the fever persists over 3 days or the cough begins to produce yellow or green sputum it is recommend that you seek a medical opinion so that bacterial infections such as bronchitis, strep throat or pneumonia can be ruled out. Other complications can include difficulty in breathing, pain in the chest, or earache, all of which require prompt medical attention.

By trying to avoid close contact with other people you will reduce the chance of spreading the virus and hence aid prevention. There are also two types of flu that may be prevented by vaccinations and they are of importance for anyone with a heart or lung disease or any chronic illness. However, most healthy individuals will suffer no long term effects from having had flu and usually recover speedily.

The most important thing to do with flu is rest, look after yourself and try not to spread it to others.

---

**The Inside World**

**Blackie:** Questions: What is yellow, scales pool tables, destroys decks in a fit of animalistic rage, has Halloween parties, and can go for days without water? (Will Dr. And please report to the front desk; Dr. Aird.)

_Hint: It can't really go for days without water._

Extra_Credit: Who was disowned by his adopted parent?—_Whom_

**Dahey:** Welcome to the land of players and Gunbobs. We're hav­ing less fun as that for the common cold (last week's Body Shop). Rest in bed, drink lots of fluids, gargle for a sore throat and take aspirin or Tylenol for the fever and aches. This will relieve the symptoms considerably but it will take 4-7 days to be cured of viral infection. However, if the fever persists over 3 days or the cough begins to produce yellow or green sputum it is recommend that you seek a medical opinion so that bacterial infections such as bronchitis, strep throat or pneumonia can be ruled out. Other complications can include difficulty in breathing, pain in the chest, or earache, all of which require prompt medical attention.

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---

**Fleming:** Last Saturday was the Knott's Halloween Haunt, which Fleming dominated easily. Did anybody see Frank Krugh?

_This weekend there will be a barbeque in the courtyard. Don’t let Wiec­kerk around the grill._

_And, of course, next weekend is Interhouse, which features Fleming House and an Ancient Rome Theme. Build Interhouse!—_All fantastic_

**Lloyd:** The Halloween party on Saturday was fun! Quite a few crazy costumes, and a good band. Congratulations to the Page and Lloyd Social Teams for a great job. The week has been quite casual. Yosufi had a severe shampoo problem Tuesday night at dinner. Jan and Nancy continue to offer aid prevention. There are also two types of flu that may be prevented by vaccinations and they are of importance for anyone with a heart or lung disease or any chronic illness. However, most healthy individuals will suffer no long term effects from having had flu and usually recover speedily.

The most important thing to do with flu is rest, look after yourself and try not to spread it to others.

---

**Ruddock:** And life in the Bull Pens on...

_Interhouse is coming along quite nicely. We have collected enough money for the band, but contributions are still needed for construction and supplies, so please give Yarmo a few extra bucks if you have them. Last week’s concert by...umm...what’s his name? Stingleton? Pingentum?—whatever, supposedly it was a nice little concert, just the thing to get us warmed up for the real concert by Lou Reed last night. (Hey, babe, take a walk on the wild side.) And this week’s social event is a Halloween party with Blacker in the penthouse. (How satisfying a party where I don’t have to tend bar?) It’s a costume party, so wear whatever you like—no, on second thought, don’t wear whatever you like—make it at least marginally tasteful. Anyway, most everyone should come to the party and party down with the Moles.

We also played off some alley challenges this week. In a close-fought nail-biter, Alley One edged out Alley Two in matters sliding. Meanwhile, the Trojans of Alley Four defended their lost of honor by crushing the bub­bleblowers that word is courtesy of Bunch Gibbott of Alley Six in the time dishonored sport of poker dice. And the challenging is sure to continue, so stay tuned.

Me, I've waited so damn patiently. Growing on the floor

_Trying to do this jugsaw puzzle_—_Before it rains anymore._

---

**BLOOM COUNTY** by Berke Breathed

**ENGINEERING, MATH, COMPUTER SCIENCE, PHYSICS GRADS:**

_extra credit: who was disowned by his adopted parent? 

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BOC Should Re-Focus

To the Editor:

A recent article questioned the trustworthiness of the BOC in investigating Honor Code violations. It also questioned the role of the BOC in cases where conflicts arise between the Honor Code and the law. I would like to address these issues with a few examples. I was involved in a case where the putative unfair advantage was not nullified by the BOC despite compelling evidence against the defendant(s). The case did not even come before the full Board as it was thrown out by the Chairman after a flawed investigation. I have heard of two other cases where no action was taken.

During the Freshman BOC talks this year, a House Rep stated that it would be an Honor Code violation to refuse to serve alcohol to a minor member of the Caltech community. I am taking this opportunity to inform the appropriate authorities that I have refused to serve alcohol to several minor members of Ricketts house. I request that the Board take action on this violation.

Cases such as the ones I have described should not take place. I have two suggestions: (1) The Board should not waste valuable time stating and pursuing ridiculous policies and (2) all cases brought before the Board should be evaluated by the entire Board and not the Chairman alone. I hope that the BOC would not make a mockery of the Honor Code in the future, as they have with one and perhaps three cases recently.

-Santosh Krishnan

letters

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-Santosh Krishnan

ASCIT Activity

from page 3

sciences.

Unfortunately, some "campaign promises" every year turn out to be simply infeasible. It is true that more parties with other campuses was a good idea that Dan Schwartz had, and at the time there was much enthusiasm for it. One of these parties was then tried and was successful, as was pointed out in the letter. What most people don't know is that there were several problems with that party that made it difficult to continue them. When Dr. Goldberger heard that we were advertising a bar at the other colleges, he quickly pointed out that this was completely illegal (unknown to us) and we had to pull the bar out. It then turned out that though promised, money from the other colleges was not forthcoming due to a lack of enthusiasm on their part. Parties like that are prohibitively expensive for the size of our budget if the other schools don't help out, due to the cost of a really good band, drinks, and munchies for that size of party. Nevertheless, I'm sure Dan has many more plans up his sleeve.

The bottom line of all this is that the BOD, especially this BOD, is doing everything it can to make some lasting changes and improvements in the student houses and on the campus at large. It takes a great deal of time (at least equivalent to a 6-9 unit class) on each of our parts just to keep things running. Without the BOD, almost no club would exist on campus. There would be no glee club, Hill, Big 7, the Tech ASCIT movies, Disneyland trips, faculty-student conferences or committees, coffeehouse, MUN, Interhouse, Discobolus, or the Honor System, and the list goes on and on. Still, we are taking time to make all the improvements we can. Before you complain about what we are or are not doing, look around you and ask yourself what you have done to improve student life since you got here.

-Teresa Solberg

ASCIT Director-at-Large

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But the best aspect of "All You Pretty Girls" is the music. These sailors may be thinking of their girlfriends, but right now they're running a ship; hence, the melody is a pleasant, whistlable tune (which is, in fact, whistled during parts of the song) while the harmony is a heavy guitar that keeps the beat of the song.

The next song, "Shake You Donkey Up," is a satire of heavy metal, with a ridiculous drum solo; then there's "Seagulls Screaming Kiss Her Kiss Her," a collaged melody beneath lyrics telling of a frustrated, hesitant boy walking along a beach with the girl he likes. Side one of The Big Express finishes with "This World Over," a lament for the world we will have lost when we've dropped the bomb, and Side Two is a similarly diverse assortment of topics and musical styles, ranging from choo-choo train funk to jazzy arrangements like those on the pastoral Mummer, XTC's previous experiment.

In the end, what an XTC fan gets is the feeling that he has listened to the band's first typical album; their previous releases each defined a new direction for the band, but The Big Express is the first to try everything on one piece of vinyl. But an XTC fan gets something that everybody else who buys The Big Express can get, too: a lot of fun.

Which brings me to my next topic. Drop two letters from "XTC" and you have X, a band that has as little in common with XTC as the Batmobile has with a '69 Malibu. I went to see these guys last Friday while everybody else was watching the Boss flex his muscles and I know it's not good policy to review something your readers missed—but boy, did you miss it! The Knitters, a folk group that takes up the time of members of X and the Blasters when they're bored, got the crowd on its feet with applause for John X. Dog's songs about things like getting drunk and stealing chickens.

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Dennis Voceent, M/A-COM LINKABIT, 3253 Science Park Road, San Diego, CA 92121.

---

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**COMPANY PRESENTATION**

**Wednesday, November 14—4:00-5:00 pm**

**Winnetive Lounge**

**Refreshments will be served**

**ON-CAMPUS INTERVIEWS**

**Thursday, November 15**

---

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Movie Review

George Burns
In Movie Hell
by Charles Barrett

Oh God! You Devil
Warner Bros. Pictures
Opens soon

I know, you’re thinking “Oh God! Another Oh God! movie”—starring that affable octogenarian George Burns. True, we’ve all seen George in his fishing cap and canvas sneakers before. The first time was fresh and original, but the second time got a wee bit tedious. So, you say, why risk a third go at a well-trod premise? Well, now there is a new twist. Enter Harry O. Tophet, also played by Burns. Tophet (I looked it up; it’s from an old English word meaning ‘Hell’) is sharply dressed where God is rumpled and comfy, sarcastic where God is wry, and to top it all off drives a flamboyant red (what else?) sports car with personalized plates that read HOT. In short, our scene-stealing newcomer is none other than Beelzebub himself.

Yes, there are some mere mortals in the cast of characters. Ted Wass, whom you may remember as Danny from the series Soap a few years ago, plays Bobby Shelton, a struggling singer-songwriter waiting for his big break. When it’s painstakingly slow in coming, he rashly expresses a willingness to sell his soul for success. His comment does not escape Harry O. Tophet’s attention, and before long a deal is struck. Tophet’s contract involves an unexpected twist, and of course Shelton needs God to help him out.

Directed by Paul Bogart and written by Andrew Bergman, Oh God! You Devil avoids being too sugary by presenting characters who have enough depth to keep them interesting. True, some of the supporting cast are parodies of their real life counterparts, but they serve mainly to set the scene for Burns or Burns versus Wass. I can honestly say the movie was better two weeks I expected, moving at a good pace and remaining entertaining throughout. In particular, the poker game between God and the Devil allows Burns to show off his different characteristics with definite flair.

In addition to the obvious dilemma of Shelton’s, the film makes some interesting points (albeit light) about the symbiotic relationship of good and evil, the interrelationship between God and the Devil. After all, one doesn’t mean much without the other around for contrast.

Buckaroo Reviews

"Wild Thing," with the entire "White Girl"—you had to be there. If you can’t catch them live, then Rank and File added and got the audience tapping its feet. And then X, a local isn’t punk; punk doesn’t play country mix (this year’s down is highly recommended) at the Universal Amphitheatre: this is good old rock ‘n’ roll (a bit faster than most, maybe). "Hungry Wolf"—a howl of lust. "Nausea"; "Johnny Hit Having Much More Fun"; from page 6

Then Rank and File added electric guitars to the atmosphere with their rock/country mix (this year’s Sun down is highly recommended) and got the audience tapping its feet. And then X, a local punk band that plays the Universal Amphitheatre: this is good old rock ‘n’ roll (a bit faster than most, maybe). "Hungry Wolf," with the entire audience yelling the chorus, "Hungry Wolf!"—a howl of lust. "Nausea"; "Johnny Hit Having Much More Fun"; "White Girl"—you had to be there. Fortunately, X is from the L.A. area, and they tend to play four or five times a year. If you can’t catch them live, then Rank and File added and got the audience tapping its feet.

At the end of the X show, Exene Cervinka, the lead singer, suggested the whole audience go see another concert later that night at a club. Well, I didn’t have enough money to get a ticket, but I can recommend the Replacements to you anyway. The Replacements are from Minneapolis; they have three albums on a local label, but you can get them all at Poo-Bah or any other decent record shop: Sorry Ma, Forgot to Take Out the Trash;
Jazz Review

The Human Voice

by John Fournak & Alex Zorilla

Jeff Berlin and Vox Humana

Hop Singh's

October 26

Look out, fusion fans, there's a new hot group on the jazz/rock scene. The band is called Jeff Berlin and Vox Humana, and they made their first public appearances Friday night at Hop Singh's in Marina Del Rey. The members of the band are Jeff Berlin (bass and vocals), Scott Henderson (guitar), Steve Smith (drums), and Clare Fischer (keyboards).

Some of you may remember Jeff Berlin for his virtuosic bass playing in the group Bruford (featuring Bill of the same name). Now that he is on his own, his musical accomplishments are all the more apparent. The audience was treated to many complex, melodic, and otherwise hell-bent-for-leather bass solos. Berlin also added vocals to two of the songs, and although he is very deprecating about his voice ("You thought Quiet Riot was loud, just wait till you hear this"!), his voice is quite good and went very well with the crowd (with the sole exception of the man who yelled "turn up the drums" when Berlin threatened to sing for the second time).

Henderson, who is better known as the guitarist for Jean-Luc Ponty (who was in the audience), also put in a very impressive performance. His guitar work was vivid, and going but not overly aggressive. Smith, who is Journey's drummer, makes a very good jazz drummer, and his work contained an inspired and musical (but not overbearing long) drum solo.

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The band played very upbeat, intricate fusion music which leaned slightly more towards rock than jazz. The musicians also established a good rapport with the audience, which was astounded by the fact that the band had been together for all of four days. We can hardly wait to find out what they can do in a few months. Hopefully they will be releasing an album soon. Meanwhile, don't miss any chance to see them in concert.

In his nationwide presidential campaign for the "Anti-Doughnut Party," Mark Twain (alias Mr. Samuel Clemens) good and well over very well this!"), his voice is really quite melodic, and otherwise hell-bent for leather bass solos. Berlin also added vocals to two of the songs, and although he is very deprecating about his voice ("You thought Quiet Riot was loud, just wait till you hear this"!), his voice is quite good and went very well with the crowd (with the sole exception of the man who yelled "turn up the drums" when Berlin threatened to sing for the second time).

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Grad Rent Increased

from page 1
be applied until living conditions actually improve if quality is the Housing Office's reason for increasing the rents.

Raising rents to correspond with private housing is self defeating. Private housing concerns must show a profit, while the Housing Office need not. Furthermore, these higher rents make living in Caltech housing less attractive. For the $880 rent of a Catalina apartment, these four people could rent a house on the private market that has much more space. Approximately 15 rooms in the graduate dorms are empty according to the Housing Office. The Housing Office is currently filling these rooms with non-graduate students over the objections of the GSC.

There is currently a year long waiting list for off campus housing and none for Catalina or the graduate dorms. However, married students are not allowed to live in either Catalina or the dorms with their spouses. Few places are available to these students as turnover in off campus housing is slow. Foreign married students may face the additional financial burden of a spouse being unable to work in this country. The GSC believes that more effort must be made to house married students. Parking is simply unavailable at Catalina. Students who can afford cars must park them in the open Caltech lot on the corner of San Pasqual and Wilson. This has caused a parking crisis all over campus. This situation can only be expected to get worse as those graduate students who do not have cars here purchase one.

The GSC was not consulted and objects to the Catalina leases. Currently, all the graduate students have year leases, as opposed to the monthly leases in the dorms. A student is responsible for the full year's rent. The Housing Office has offered students an out by allowing them to break their contract as long as another student takes their place. If such a student cannot be found, the renter is responsible for a full year's rent. Tenants are not considered especially objectionable, but only if these three conditions are met: (1) The other tenants consent. (2) The sublet is between June and August. (3) The subletter must be a currently enrolled Caltech graduate student. No known contract on the private market has such restrictive sublet policy and most apartment leases are monthly in this area. The GSC questions the fairness, desirability, and legality of these rental agreements. These conditions are considered especially objectionable in view of the fact that incoming graduate students were not offered housing in the graduate dormitories.

The GSC asks that you contact your department representative if you have a comment, positive or negative, about the housing situation at Caltech.

Political Involvement Needed
from page 2
It's downright dangerous to leave politics up to the politicians. There's room for everyone, including scientists and engineers, to get politically involved. It would be nice if a Techcr became President someday. It would be fine if most Techers were involved in public decision-making. But it would be excellent if Caltech graduates, in every occupation, found a place in their lives for political involvement. Society needs all the help it can get.

TALK TO DRAPER

Friday, November 9, 1984
Cal. Tech.

MS/PhD Candidates — Join some of the nation's most respected and innovative people at developing innovative and fascinating new technologies. As a leading venture "workshop" in Technological Square, we offer a unique environment for your career to grow and develop. Positions are currently available for candidates in Electrical Engineering, Mechanical Engineering, Computer Science, and Aeronautics in the following areas:

• Control Systems Design • Manufacturing Systems
• Software Development/ Robotics/Automation • Guidance and Evaluation • Navigation Analysis
• Analog/Digital Design Engineering • Electronic System Engineering
• Spacecraft Dynamics • Optical • Instrumentation
• Underwater Exploration Systems • Structural Engineering • System Development

We employ over 1800 top quality people — we need 70 more if you're looking for a state-of-the-art professional challenge — we want to talk to you.

INFORMATIONAL GROUP MEETING INTERVIEW SCHEDULE

Details available at your Placement Office. We are an equal opportunity/affirmative action employer, M/F, U.S. Citizenship required.

The Charles Stark Draper Laboratory, Inc.
Beavers Triumph Over San Diego Without Beer

by Santosh Krishnan

The Caltech Beavers improved their record to 2-3 with an impressive victory over the San Diego Cougars last Saturday. The Beaver offense, led by quarterback Martin Brouilette and receiver/running back Lee Mallory, scored four touchdowns in the 25-12 win. The Beaver offense, which had been stifled in last week's 7-6 loss to the Valley Nomads, showed great versatility and the ability to make the big play. For example, with only a 7 point lead, Caltech appeared to have been stopped with a 3rd and 20 play. A Brouilette/Sverdrup pass, however, gave Caltech a key first down. A few plays later, Caltech had a first down on the Cougar 8 and appeared to be well positioned to score. The normally sure-handed Mallory, however, fumbled the handoff, and Caltech was forced back. On the very next play, Martin connected with Mallory in the corner of the end zone for a TD. Asked later about the game, Mallory, who had two TD receptions, called the victory a "team effort."

The Beaver defense was equally impressive, stopping the Cougars on key series twice after time. The Cougar QB was sacked and intercepted several times, and the defensive pressure was evident in several hurried throws. The Beavers have performed very well this year and would be 4-1 if not for two last-minute lapses. The team has weathered well the loss of many seniors. One of the key players in the team's success is QB Martin Brouilette. Martin, who is from Quebec, is a first-year graduate student in Aeronautics. Although he did not play very much football as an undergraduate, he has played football for over ten years. He is an agressive player, both on offense and defense, where he is a backup safety. He is not afraid to run with the ball and scored one TD on the ground.

Last week, the Beavers won despite an absence of cheerleaders and FREE BEER (hint, hint). Tomorrow, the Beavers face the San Fernando Valley Bulls in what promises to be an exciting match. All are welcome, especially ASCIT's cheerleaders and FREE BEER.

Lee Mallory scores one more time

Fencers Miss

by Parry Riposte

Last Saturday the Caltech fencing team had a match away with U.C. San Diego. The women's foil team, which consisted of Phyllis Li, Dana Pillsbury, and Susan Bridgway fenced well but lost 3-12. The team had to forfeit four bouts because only three members came to the meet. Pillsbury and Bridgway did a fine job of blocking their opponents' blades. Li led agressive attacks and defeated three of her opponents.

The men's foil team also lost, 1-8. Craig Keller was the only scorer, winning his first bout of the season. Scott Grossman performed effective parries and ripostes. He also kept good distance away from his opponents. Adam Lewenbarg made fast lunge and got a few touches.

The men's epee team consisted of Charles Todd, Bill Gray, Joe Beckenbach, and James O'Dea. Three of their opponents' attacks. Bill Gray was careful in and conscientious about his movements. He looked for openings and made a few touches. Charles Todd had a long reach and kept a good distance. He was able to get a few touches by beating and avoiding the opponents' blade.

The men's saber team almost won a match but lost 3-6. They lost two very close bouts by one touch each. Jeff Greason was agressive and had strong ripostes. He forced through a few of his opponents' parries. Pat Blaine lost a close bout by one touch. He performed effective parries and ripostes to counter attacks.

Matt Himmelstein won one bout. He made fast cuts and almost knocked his opponent's helmet off. Chien-Wei Han led running attacks and won two bouts.

FREE BEER.
Drunken Martians Play Polo

It was one of those nights. Couldn't really do anything. Was staring at a ton of homework, but couldn't begin it. Too drained from playing polo. Had been another rough practice. Just lay there, looking at the ceiling, eyes bloodshot and smarting from over-chlorination. Decided to go out and get a drink.

Swilling drinks didn't improve anything. Head was spinning, but not enough. Not smashed yet. "Hey, bartender, another drink here, huh?"

"Aren't you sure you've had enough?" The next drink sat itself snugly down. And was soon gone.

"Nope. Give me another." Another drink. "Play polo?"

"Yeah, how'd you know?"

"Lots of your type come in here. One of 'em shot my brother a coupla years back."

Drink was gone. "Another, please."

"You guys are really strange. Your hair is green, man."

"So?"

Spikers Strike

by Busy Sue

Two Saturdays ago, the women's volleyball team played Christ College. We lost the five game match by a total of four points. We were disappointed. We always like to beat people who are taller than us, but we figured that we would save our energy for the Oxy game on Tuesday. The Oxy match was best two of three. We won one game. Everyone played well in the second game, but the other two were pretty bleak. Energy saving might be good for America, but it didn't help us out.

This week's news is a little better. Last Saturday we played Whittier; we should have WON. But we didn't. We played OK but only intermittently. And we were wrestling with a really inept lineup that had our two middle blockers in the back row at the same time. Laurie M played great defense, though.

On Tuesday we went out to Redlands. I figured that we'd get beat, but just like the weatherman, I was wrong. We won; if you want to know the scores, ask Linda. We won the game on service; we served almost every ball effectively, and they couldn't pass to save their lives. Since they never got a set and so they never could hit. In short, everyone played well and everyone played really well together.

Our next home game is on Saturday at 2 o'clock against Cal State San Bernardino. We will need all the help we can get, so please be there, and if any of you big tall guys who know how to play volleyball think that you might be able to pass for a girl (excuse me, woman) please come prepared with your best female face and volleyball shoes.


"You okay, son?"

"Yeah, just fine."

"Had a little too much to drink, eh?"

"Nope."

"Say, do you play water-polo?"

"Yeah, how'd you guess?"

"Your hair's green. You look like a Martian."


My one call was to Dodd. "Hey, Clint. This is my one call. I'm in jail right now. Can you come and bail me out so I can make tomorrow's practice?"

Some people never learn.

There's Always Space for the New Expressionist.

At TRW’s Electronics and Defense Sector we recognize the value of new ideas. We provide an environment with space for free thought and expression. To us, you are tomorrow’s source of talent and creative energy. With us, you can reach deep into the expanses of your imagination and help to develop technologies that literally reach beyond the stars.

Our informal and encouraging atmosphere has produced a galaxy of opportunities...encompassing large software computer systems, communications and scientific spacecraft, alternative energy sources, high energy lasers, and microelectronics development. These opportunities are open to you.

Lynn Hildemann dives and makes the shot
Runners Advance

by Big Mo

In the beautiful far away land of Redlands, Caltech's cross-country team competed in its final league race last Saturday against Claremont and the University of Redlands. In the women's race, Jenny Haase took third with a fast 18:34. Things were not quite as rosy for the men's team. Although John Gehring and Mike Jensen ran very well (28:48 and 29:03), Sean Moriarty and Darin Acosta were a bit off their form. John Lao, Dan Biddle, James Davila, and Doug Chang did a great job to complete the Caltech team, but Claremont still smacked ahead 22-34 while big, bad Redlands showed no mercy with their 15-42 victory.

This Saturday at Whittier, the League Finals race will be held at 9:30 in the morning. I predict that Caltech will take fourth of the seven teams after we stomp out that smile on the Claremont runners' faces left over from our last race.

Weekly Sports Calendar

Intercollegiate

<table>
<thead>
<tr>
<th>Day</th>
<th>Date</th>
<th>Time Sport</th>
<th>Opponent</th>
<th>Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sat.</td>
<td>11-3</td>
<td>9:30 am Cross Country</td>
<td>SCIAC Finals</td>
<td>Whittier</td>
</tr>
<tr>
<td>Sat.</td>
<td>11-3</td>
<td>10:00 am Water Polo</td>
<td>SCIAC Western</td>
<td>Caltech</td>
</tr>
<tr>
<td>Sat.</td>
<td>11-3</td>
<td>1:00 pm Fencing</td>
<td>Fullerton &amp; S.D.S.U.</td>
<td>San Diego S.U.</td>
</tr>
<tr>
<td>Sat.</td>
<td>11-3</td>
<td>1:30 pm Football</td>
<td>San Fernando Valley Bulls</td>
<td>Caltech</td>
</tr>
<tr>
<td>Sat.</td>
<td>11-3</td>
<td>2:00 pm Women's Volleyball</td>
<td>C.S. San Berdo</td>
<td>Caltech</td>
</tr>
<tr>
<td>Sat.</td>
<td>11-3</td>
<td>3:00 pm Soccer</td>
<td>Occidental</td>
<td>Oxy</td>
</tr>
<tr>
<td>Mon.</td>
<td>11-5</td>
<td>7:30 pm Women's Volleyball</td>
<td>Whittier J.V.</td>
<td>Whittier</td>
</tr>
<tr>
<td>Wed.</td>
<td>11-7</td>
<td>2:30 pm Soccer</td>
<td>Pomona-Pitzer</td>
<td>Caltech</td>
</tr>
<tr>
<td>Wed.</td>
<td>11-7</td>
<td>4:15 pm Water Polo</td>
<td>Loyola</td>
<td>Caltech</td>
</tr>
<tr>
<td>Wed.</td>
<td>11-7</td>
<td>11:00 pm Ice Hockey</td>
<td>U.C. Irvine</td>
<td>Ice Capsades</td>
</tr>
</tbody>
</table>

A League

<table>
<thead>
<tr>
<th>Day</th>
<th>Date</th>
<th>Time</th>
<th>Teams</th>
<th>Referees</th>
<th>Court</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mon.</td>
<td>11-5</td>
<td>4:00 pm</td>
<td>Lloyd vs. Danby</td>
<td>Fleming</td>
<td>East</td>
</tr>
<tr>
<td>Mon.</td>
<td>11-5</td>
<td>4:00 pm</td>
<td>Rooddock vs. Blacker</td>
<td>Ricketts</td>
<td>West</td>
</tr>
<tr>
<td>Tue.</td>
<td>11-6</td>
<td>4:00 pm</td>
<td>Ricketts vs. Lloyd</td>
<td>Danby</td>
<td>East</td>
</tr>
<tr>
<td>Tue.</td>
<td>11-6</td>
<td>4:00 pm</td>
<td>Page vs. Fleming</td>
<td>Blacker</td>
<td>West</td>
</tr>
<tr>
<td>Thu.</td>
<td>11-8</td>
<td>4:00 pm</td>
<td>Page vs. Blacker</td>
<td>Rooddock</td>
<td>East</td>
</tr>
<tr>
<td>Thu.</td>
<td>11-8</td>
<td>4:00 pm</td>
<td>Ricketts vs. Danby</td>
<td>Lloyd</td>
<td>West</td>
</tr>
</tbody>
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B1 League

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<tr>
<th>Day</th>
<th>Date</th>
<th>Time</th>
<th>Teams</th>
<th>Referees</th>
<th>Court</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tue.</td>
<td>11-6</td>
<td>10 pm</td>
<td>Smashers vs. Lloyd Juggernaut</td>
<td>H’M’s</td>
<td>East</td>
</tr>
<tr>
<td>Wed.</td>
<td>11-7</td>
<td>6:15 pm</td>
<td>Overpaid Amateurs vs. Nice Guys</td>
<td>Ruddock</td>
<td>East</td>
</tr>
<tr>
<td>Wed.</td>
<td>11-7</td>
<td>7:15 pm</td>
<td>To Be Determined vs. Ruddock</td>
<td>Ov’p’d Amateurs</td>
<td>East</td>
</tr>
<tr>
<td>Wed.</td>
<td>11-7</td>
<td>8:15 pm</td>
<td>H’M’s vs. Rotorheads</td>
<td>Coherent Spikers</td>
<td>East</td>
</tr>
<tr>
<td>Wed.</td>
<td>11-7</td>
<td>9:15 pm</td>
<td>Coherent Spikers vs. Ricketts</td>
<td>H’M’s</td>
<td>East</td>
</tr>
<tr>
<td>Wed.</td>
<td>11-7</td>
<td>10:15 pm</td>
<td>Derelicts vs. Lloyd Juggernaut</td>
<td>Ricketts</td>
<td>East</td>
</tr>
</tbody>
</table>

G.S.C Volleyball

<table>
<thead>
<tr>
<th>Day</th>
<th>Date</th>
<th>Time</th>
<th>Teams</th>
<th>Referees</th>
<th>Court</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tue.</td>
<td>11-6</td>
<td>10 pm</td>
<td>Not Yet Known vs. X-Men</td>
<td>Sops</td>
<td>West</td>
</tr>
<tr>
<td>Wed.</td>
<td>11-7</td>
<td>6:15 pm</td>
<td>Astronomy vs. Brains not Braun</td>
<td>Sops</td>
<td>West</td>
</tr>
<tr>
<td>Wed.</td>
<td>11-7</td>
<td>7:15 pm</td>
<td>Kinetics vs. Sops</td>
<td>Astronomy</td>
<td>West</td>
</tr>
<tr>
<td>Wed.</td>
<td>11-7</td>
<td>8:15 pm</td>
<td>Natural Satellites vs. Eh? Team</td>
<td>Face</td>
<td>West</td>
</tr>
<tr>
<td>Wed.</td>
<td>11-7</td>
<td>9:15 pm</td>
<td>Face vs. Jerry’s Kids II</td>
<td>Natural Sats.</td>
<td>West</td>
</tr>
<tr>
<td>Wed.</td>
<td>11-7</td>
<td>10:15 pm</td>
<td>Ruddock vs. X-Men</td>
<td>Jerry’s Kids II</td>
<td>West</td>
</tr>
</tbody>
</table>

Now get big savings on Texas Instruments Portable Professional Computer.

We are among the very few selected to participate in this unprecedented Texas Instruments promotion. For a limited time only we can sell TI Portable Professional Computers at unbelievably low prices. Bring your I.D. Offer limited to students, faculty, and staff of this campus.

Don’t wait. Supplies are limited. Offer ends December 14, 1984.

In the beatiful far away land of Redlands, Caltech's cross-country team competed in its final league race last Saturday against Claremont and the University of Redlands. In the women's race, Jenny Haase took third with a fast 18:34. Things were not quite as rosy for the men's team. Although John Gehring and Mike Jensen ran very well (28:48 and 29:03), Sean Moriarty and Darin Acosta were a bit off their form. John Lao, Dan Biddle, James Davila, and Doug Chang did a great job to complete the Caltech team, but Claremont still smacked ahead 22—34 while big, bad Redlands showed no mercy with their 15—42 victory.

This Saturday at Whittier, the League Finals race will be held at 9:30 in the morning. I predict that Caltech will take fourth of the seven teams after we stomp out that smile on the Claremont runners' faces left over from our last race.
**announcements**

**Material for the announcement section of the California Tech must be submitted typed on or with the announcement Form available at the Tech office by the Tuesday before the Friday of publication.**

**It's: The Dance!**

Saturday, November 3, at 8:00 pm in Wittnnet Center, this term's Dance will begin, assisted by DJ-supplied music, free food, punch, and beer. The dances usually attract around a hundred people, many of them from other campuses, since the dances are publicized at OxY, PCC, UCLA, and other LA area schools. Here's your chance! Sponsored by CLAGS.

**One Act Tryouts**


**Hillel Bar-B-Q**

Food, games, fun for all! Sunday, November 4, from 1:00 pm onward at the Master's House (335 S. Holliston) Come one, come all!

**Chess Tourney**

Organizing extracurricular activities is no easy task at Caltech, a fact noted by the Chess Club after only five players showed up for the first round of its fall tournament (apparently to be called the "Doug Dekker Concepti Swish"). The start of the event has accordingly been set back one week, until November 3rd (that's tomorrow), in the hope that conflicts with midterms, etcetera, can be avoided. Remember, fans, games can be rescheduled if one or both players have other obligations. Come on, folks, what else are you doing on Saturday afternoons? (You don't have to answer that.) Many complain that life at Tech is nothing but schoolwork; well, here's at least one alternative. We're not asking for volunteer labor—just pay your five bucks and play.

**Feet Needed**

Support the candidates on the local and national Democratic Ticket by distributing information during the weekend before the election. If you can find a few hours on Nov. 3 or Nov. 4 to walk door-to-door to leave leaflets and campaign information, the Pasadena/Alhambra Democrats will be happy to help you get involved. You need not be eligible to vote to help out. To sign up or to find out additional information call Anna at (818) 304-0381.

**Mikado Auditions**

Auditions for the annual Caltech Musical will be held on Saturday and Sunday November 17 and 18 from 10 am to 6 pm in the basement of Baxter. This year's show is Gilbert and Sullivan's The Mikado. All Caltech and JPL students—undergraduate and graduate), faculty, staff, family and friends—are invited to participate in the production. Performances will be the last weekend in February, and the first in March.

**Thanksgiving Food**

Students may sign up in the Caltech Y or the Master's office for the privilege of attending a home—cooked Thanksgiving dinner at the home of a Pasadena resident. (Note: to avoid disappointment, it's better to sign up now and change one's mind later than to postpone until it's too late.)

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**CLASSIFIED**

**Career Presentation and Pizza Feed**

For Students in Electrical Engineering, Computer Science, Physics, and Materials Science

Thursday, November 8, 4 p.m., Wittnnet Lounge

"You'll never be bored at Advanced Micro Devices." That's what the authors of The 100 Best Companies to Work for in America" said. They ranked AMD right up there in the top 15, with high points for benefits, job security, ambience and the chance to move up. Your BS, MS or PhD in EE, Solid State Physics, Materials Science, Computer Science or Electrical Engineering could be the first step in your move up with AMD. Find out more about career opportunities at AMD in California and Texas at our Career Information Session Thursday night.

After you see our presentation, we're sure you'll want to fill out an application or send your resume to Toby Doyle, University Recruiting, Advanced Micro Devices, Dept. CTP-1102, MS-57, 901 Thompson Place, P.O. Box 3453, Sunnyvale, California 94088. An equal opportunity employer.

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**Advance Micro Devices**

Catch the wave

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**TINA & MICHAEL HAIR DESIGN**

For Men and Women

Haircuts, Perms, Color Manipulates, Pedicures

20% Off to Caltech Community

By Appointment Only

Tuesday through Saturday

991 E. Green St., Pasadena CA

Parking on 108 S. Catalina

703-4242 or 449-4436

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2975 E. Colorado Ave. Pasadena, CA 91106

One bedroom

Extremely well maintained

Available now

$650

**HELP WANTED:**

IBM Selectric.

Term papers, typing by executive secretary.

**HELP WANTED:**

750 Machine language programming—software and hardware. Contact Joe Vu 794-2411 after 5 PM.

**EXCELLENT INCOME**

for part time home assembly work. For info call 504-641-8003 Ext. 8738.

**HELP WANTED:**

Clerical—$3.50 to start, prefer full time, will work with customers on the phone (non sales). Call Mpg 731-0401, 9-5.

**YOUNG PROFESSIONAL**

couple living in La Canada needs mature, responsible student to help manage household affairs. Principal duties to include cooking, shopping, light gardening and light cleaning approximately 10 hrs/week. Opportunity to work flexible hours for friendly people $4/hr to start with raises thereafter. Call 952-2189 evenings.

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