Caltech astronomers take infrared pictures of a black hole

BY CALTECH MEDIA RELATIONS

Sophisticated imaging techniques applied on the Keck Telescope have uncovered a new structure in a nearby active galaxy. The image and associated research are being presented today at the semiannual meeting of the American Astronomical Society. Alycia Weinberger, a doctoral student in physics at the California Institute of Technology, and her collaborators have used the computer-intensive technique of speckle imaging and the 10-meter W. M. Keck Telescope atop Mauna Kea, Hawaii, to image the nucleus of NGC 1068.

This galaxy, found in the constellation Cetus at a distance of about 50 million light-years, reveals a brilliant active nucleus at infrared wavelengths.

The accompanying false color image shows an elongated structure, which is over 100 light-years across, centered on a bright point-like infrared nuclear. In contrast, the bright disk of the galaxy NGC 1068 is over 30,000 light-years across at visual wavelengths.

Made at a wavelength of 2.2 microns, Weinberger's near-infrared image has the capability to reveal structures which are only 12 light years across. This is an extremely small distance by galactic standards, as small as about three times the distance between the Sun and its nearest stellar neighbors.

Although taken from a ground based observatory, this image has resolution as fine as what the Hubble Space Telescope achieves in the visual part of the spectrum.

The space telescope does not currently have an infrared camera, but is scheduled to receive one in 1997. The elongated feature discovered by the Caltech group has not been seen in Hubble's optical images.

There are two very interesting aspects of this image. First, the image is elongated, and second the axis of the emission points in a different direction than previously observed visual emission. The near-infrared light used to make this picture typically traces the distribution of hot dust and cool stars. However, in NGC 1068, it is very unlikely that there could be dust 100 light-years from the central black hole which would be hot enough to produce the observed emission. Rather, Weinberger says, it is likely that the observed extended near-infrared light is from stars. Furthermore, since it points in a different direction, this new infrared image in a potential source is likely to come from an entirely different source than previously observed visual emission.

It has long been proposed that stellar bars are a way of funneling matter to an active nucleus. As gas moves in a non-circular distribution of stars, such as what may be seen in Weinberger's image, it is forced into orbits likely to take it near the central black hole. This provides a continuous mechanism for "feeding" the central engine.

"The significance of this research is that it finds a brand-new feature in the data," Weinberger says. "It is likely to be a dusty disk, which is over 100 light-years across, elongated feature discovered by the Caltech group has not been seen in Hubble's optical images.

Careers in Science and Engineering

BY SAMSON TIMONIER

As part of Wellness Week, Yvonne Farell, from Emperor's College of Traditional Oriental Medicine, gave a brief explanation of acupuncture and herbalism.

Since the early seventies when an American journalist came back from China raving about the effects of acupuncture, respect for this style of medicine has been growing in the United States. Many share the results they get from being pricked by needles and drinking special teas.

Traditional medicine ... has been practiced in China for over two thousand years. Although it may be a new phenomenon in the United States, the methods have withstood the trial of time in their home country. Whereas Western doctors are trained to think of medicine in a very mechanistic and scientific fashion, Chinese doctors adopt a holistic approach.

On Pins and Needles

BY MYANNY CALLAHAN

The woes for which we turn to a doctor, a psychiatrist, or a religious leader, all are treated by the same system in China. This medicine focuses on maintaining a balance in the body, and can correct small imbalances before they result in a full-fledged disease.

Traditional medicine is not desirable in some cases such as appendicitis or orthopedic surgery, but it can be extremely helpful in conjunction with Western science. Western doctors can perform surgery with their best technology, while Chinese doctors assist the patient in a speedy recovery and proper healing. A cancer patient may go to the best hospital in the best area for chemotherapy, then turn to an herbalist to reduce the side effects of the treatment. In many cases, the best results are obtained when Oriental and Western medicine work in conjunction with each other.

In This Issue

THE USUAL STUFF

Announcements ........................ 12
Dean's Corner .......................... 8
Ernest Explains ......................... 9
Now Hear This .......................... 8
The Orchid House ........................

THIS WEEK'S FEATURES

ASCIT Elections ....................... 6
Men's Basketball ...................... 10
Media Guy .......................... 9
Spring Sports Preview ............... 10

On Pins and Needles

BY MYANNY CALLAHAN

As part of Wellness Week, Yvonne Farell, from Emperor's College of Traditional Oriental Medicine, gave a brief explanation of acupuncture and herbalism.

Since the early seventies when an American journalist came back from China raving about the effects of acupuncture, respect for this style of medicine has been growing in the United States. Many share the results they get from being pricked by needles and drinking special teas.

Traditional medicine ... has been practiced in China for over two thousand years. Although it may be a new phenomenon in the United States, the methods have withstood the trial of time in their home country. Whereas Western doctors are trained to think of medicine in a very mechanistic and scientific fashion, Chinese doctors adopt a holistic approach.

On Pins and Needles

BY MYANNY CALLAHAN

As part of Wellness Week, Yvonne Farell, from Emperor's College of Traditional Oriental Medicine, gave a brief explanation of acupuncture and herbalism.

Since the early seventies when an American journalist came back from China raving about the effects of acupuncture, respect for this style of medicine has been growing in the United States. Many share the results they get from being pricked by needles and drinking special teas.

Traditional medicine ... has been practiced in China for over two thousand years. Although it may be a new phenomenon in the United States, the methods have withstood the trial of time in their home country. Whereas Western doctors are trained to think of medicine in a very mechanistic and scientific fashion, Chinese doctors adopt a holistic approach.

On Pins and Needles

BY MYANNY CALLAHAN

As part of Wellness Week, Yvonne Farell, from Emperor's College of Traditional Oriental Medicine, gave a brief explanation of acupuncture and herbalism.

Since the early seventies when an American journalist came back from China raving about the effects of acupuncture, respect for this style of medicine has been growing in the United States. Many share the results they get from being pricked by needles and drinking special teas.

Traditional medicine ... has been practiced in China for over two thousand years. Although it may be a new phenomenon in the United States, the methods have withstood the trial of time in their home country. Whereas Western doctors are trained to think of medicine in a very mechanistic and scientific fashion, Chinese doctors adopt a holistic approach.

On Pins and Needles

BY MYANNY CALLAHAN

As part of Wellness Week, Yvonne Farell, from Emperor's College of Traditional Oriental Medicine, gave a brief explanation of acupuncture and herbalism.

Since the early seventies when an American journalist came back from China raving about the effects of acupuncture, respect for this style of medicine has been growing in the United States. Many share the results they get from being pricked by needles and drinking special teas.

Traditional medicine ... has been practiced in China for over two thousand years. Although it may be a new phenomenon in the United States, the methods have withstood the trial of time in their home country. Whereas Western doctors are trained to think of medicine in a very mechanistic and scientific fashion, Chinese doctors adopt a holistic approach.

On Pins and Needles

BY MYANNY CALLAHAN

As part of Wellness Week, Yvonne Farell, from Emperor's College of Traditional Oriental Medicine, gave a brief explanation of acupuncture and herbalism.

Since the early seventies when an American journalist came back from China raving about the effects of acupuncture, respect for this style of medicine has been growing in the United States. Many share the results they get from being pricked by needles and drinking special teas.

Traditional medicine ... has been practiced in China for over two thousand years. Although it may be a new phenomenon in the United States, the methods have withstood the trial of time in their home country. Whereas Western doctors are trained to think of medicine in a very mechanistic and scientific fashion, Chinese doctors adopt a holistic approach.
The Outside World

by Myfanwy Callahan

KHARTOUM, Sudan - A rebel offensive began two weeks ago in an effort to destroy the Sudan's Islamic regime, long criticized by the U.S. for supporting terrorism. The rebels now claim that they have killed hundreds of government troops and pushed to within 40 miles of a key hydro-electric plant.

LIMA, Peru - Twenty Tupac Amaru rebels still hold hostages inside the Japanese Ambassador's residence in Peru. Tuesday, police threw stones and bottles at the residence and dumped garbage on the lawn to taunt the terrorists, but they made no response.

PARIS, France - The French Order of Doctors now strongly recommends that doctors with HIV not perform surgery. Last week the Health Ministry announced that a French surgeon inadvertently infected his patient with HIV. Positive doctors could continue in general practice or administrative duties.

WARSAW, Poland - Poland is turning military over to civilian control in order to meet the conditions to join NATO. However, the commanding general, Gen. Tadeusz Wilecki, is resisting this reduction of his authority. The military will now report directly to the Defense Minister.

WASHINGTON, D.C. - The House Ethics committee concluded its investigation into Rep. Newt Gingrich's unethical use of charity money to promote Republican support. A vote of 395-28 overwhelmingly decided to fine Gingrich $300,000 for the offense.

BLACK HOLE: AAS presentation

CONTINUED FROM PAGE 1

Chinese medicine is based on three things: Chi, Yin and Yang. Chi is not readily translatable, but to a first approximation it is a life force that exists in all things animate and inanimate. Yin and Yang are symbols of the opposition present in all things. The Chinese system of medicine also revolves around the idea that the body is supplied by lines of energy, each associated with an organ system. The five organs: heart, liver, lung, spleen, and kidney are also associated with five emotions: joy, anger, grief, worry, and fear, respectively. An excess or lack of any combination of these factors leads to illness.

WELLNESS: Chinese medicine

CONTINUED FROM PAGE 1

Chinese medicine is based on three things: Chi, Yin and Yang. Chi is not readily translatable, but to a first approximation it is a life force that exists in all things animate and inanimate. Yin and Yang are symbols of the opposition present in all things. The Chinese system of medicine also revolves around the idea that the body is supplied by lines of energy, each associated with an organ system. The five organs: heart, liver, lung, spleen, and kidney are also associated with five emotions: joy, anger, grief, worry, and fear, respectively. An excess or lack of any combination of these factors leads to illness.

After asking about the main complaint, an acupuncturist will ask about other factors in the patient's life. Often times a trouble of the mind manifests itself in the body or vice versa. Then a simple check of the tongue and the pulse completes the analysis. Herbs may be prescribed to fulfill some deficiency or to cleanse the body. These are usually boiled and drunk as teas. Otherwise, acupuncture or a change in lifestyle may be recommended.

Acupuncture is the application of needles to the skin in particular points of the body. The needles are so fine that two of them could fit inside a conventional hypodermic needle. It is a procedure in which needles penetrate the skin. The thrush deep enough to bring blood to the surface. This may be useful to drain an area or to prevent the flow of excess energy.

Yvonne Farell is one of the faculty members at Empire College of Traditional Oriental Medicine.

CORRECTION

Feynman did not get his PhD from Bethe, as was stated in last week's Tech. He went to Princeton and his advisor was John Archibald Wheeler.
Should we bargain with terrorists to save hostages?

By John Hatfield

There has been yet another hostage crisis in the world, brought about by revolutionaries in Peru. They took control of the Japanese embassy before Christmas and still remain there, holding hundreds of foreign dignitaries captive. Although this is a deplorable situation, it brings up a familiar problem in this world where many believe their reprehensible terrorist activities are justified in their pursuit of a greater cause.

That problem is: how do we react when hostages are taken?

There are two different approaches to dealing with hostage situations. One is to negotiate and eventually give the hostages what they want, if it is not too unreasonable (such as allowing the hostages free passage to an escape). Negotiators are trying this in Peru. They are continuing communications with the terrorists in hopes of freeing more of the hostages. While this has resulted in some hostages' release, many more are still held captive as the terrorists and the government continue discussion. (The terrorists are demanding the release of some of their confederates already held by the government.) Of course, the question is, whether this "coddling" of the terrorists will lead to more incidents later. Many countries seem to think so.

Many countries, including Israel and France, take a different approach. If any hostage incident takes place on their soil, they simply react with deadly, lethal force. For instance, when an Israeli plane was hijacked many years ago, the Israeli government sent in an assault team to liberate the hostages. All of the terrorists were killed, along with, ironically, the brother of the current president of Israel.

These countries believe that this type of response to these situations will discourage further incidents of that type. The question, of course, is whether that type of discouragement is successful.

Although Israel has suffered numerous terrorist incidents, very few if any after the incident described above have included taking hostages. Of course, one may also ask whether it is moral to play dice with the lives of present hostages to save these "future hostages."

These are questions we would urge you to consider and write to your representatives about, as the United States continues to fail to have a clear policy regarding these issues. I fear all too soon we will be in great need of one.

HUGHES SPACE AND COMMUNICATIONS COMPANY
Of Babes, Bitches, Boys, and Men

BY CHERISH BROWN

If you walk through the houses and find a group of men discussing women, usually you'll hear the words "babe" and "bitch" used as descriptors instead of colleague or friend. These two words are the basic stereotypes of Caltech women. The "babe", of course, is not interested in a serious relationship, is good looking, and doesn't get offended by sexual innuendos. These are the "sluts" because they won't settle down, they've been in more than one relationship or reject all relationships.

The rest of us are not so affectionately known as "bitches". We may get offended at sexist jokes, don't like being glommed, and may be more interested in getting schoolwork done than sating the sexual drives of the men around us. Either way, bitch or babe, we're responsible for the men's behavior toward us. In an effort to catalogue Caltech women, a male student will act insanely juvenile and spew slang dealing with sex and genitals. Eventually, we give up and put bumper stickers on our cars saying "So Many Boys, So Few Gentlemen".

When I read the Dean's Corner last week, I saw a great thing about friendship. But instead, the dean didn't tell the boys to shape up. He didn't tell them to take responsibility for their own behavior; he reiterated the old saying "Boys will be boys", thereby excusing them. I was very disappointed.

I want to know how long it will be before someone stands up and calls this sexist, objectifying, and obnoxious behavior is simply wrong, sometimes illegal, and will not be tolerated at Caltech. Male students treat many of the women here like toys or sex objects, yet much of the time, they get away with this stereotyping to continue. Rather than defending other women, they either don't speak out, fearing very real repercussions, or they condemn the women who feel insulted and humiliated. They are afraid these women will give all female students a bad name because they supposedly lack the traits necessary to become a scientist.

Such objectification of women is not specific to Caltech, nor is it manifested solely in verbal form. Our society in general has a history of expecting women to tolerate or accept sexist behavior due to the fact that suffer so many consequences.

The strongest example of these consequences occurred with the death of Jon Benet Ramsey, a "Little Miss" fusing to win. A friend sent me a message saying Jon Benet's parents shouldn't have dressed her like a woman of "questionable morals" because they were afraid of the implications. Isn't it ridiculous to think a friend that neither a six-year-old girl nor her parents would ask that she be sexually assaulted and murdered. Regardless of how she was dressed or used by her parents, she didn't do anything to deserve her fate. She was the victim, not the perpetrator.

Why is the objectification of women viewed as the woman's fault or responsibility? Even in gorillas, a male gorilla who attempts intercourse with an unwilling female is punished by the entire group. The male gorilla is the perpetrator; the female is the victim.

put The X Files ahead of 1) School 2) The Great Outdoors 3) Money (it's EXPENSIVE to re-schedule a plane ticket!) 4) Athletics and 5) Women's Studies.

However, if there is a place on this wonderful planet of ours where objections are evident, it is most certainly the California Institute of Technology. At least here, does this makes this objection different? Its detrimental effect on society. In order to truly enjoy a work of fiction, one must suspend disbelief. It's not fun, however, to imagine what Coleridge was a cartoon, depicting the folly of the government or actuality what he thought it was called "a willing suspension of disbelief". Makes good sense: if I want to enjoy a Greek tragedy properly, I'd better darn well be a man for a moment that there really is no mighty Zeus attempting to foil my plans at every turn. The X Files asks, and receives, something quite different from its viewers. Instead of a "suspension of disbelief", it induces an "assumption of belief."

This is a critical distinction. In watching a Greek tragedy, at the end of the performance I am no more willing to believe that there are a set of temperamental gods out there than I was at the beginning of my performance. My disbelief was only temporarily suspended; such is not the case with The X Files.

With every episode, a sizeable portion of the viewing audience becomes just a tad bit more inclined to think that there are aliens out there. Hidden by the government. Conducting experiments for the benefit and/or harm of human kind. Going to Caltech. Stealing the comics sections from the paper every Sunday morning.

It's all a load of crap. By addressing it in a pseudoscientific fashion, with the end conclusion always illustrating the folly of the "straight man" (straight person in this case, I guess) in believing a lot of what is thrown at him by a horde of writers. The depiction of the very much of a pamphlet handed out my freshman year outside of Sloan, involving proof of God's existence. In the pamphlet was a cartoon, depicting "science" being questioned by a man in a gleaming white suit. The man in the white suit then questioned this personification of science with supposed physical impossibilities. Eventually he is served. His crowning question, the one that caused the scientists to break out into a sweat and cry out, "I... I I DONT KNOW!" was "We are talking to a human, aren't we...?"

of the same thing, except it has multi million dollar budget teams of market researchers and a horde of writers. The show is getting too much of the women that many of you watch the show every week, as the symbol of rational objection to claims (Scull) is gradually shown the way by the embodiment of the paranormal (Mulder). Sure, it's fun to imagine that type of world might be like. It's not fun, however, to have to actually live in a world where people are increasingly willing to buy that type of conspiratorial nonsense.

The bottom line is that there are far more people who are susceptible to ideas like the suggestion that the government is hiding aliens from than there were before the show started. Are you one of them?

It really is that simple.

Cyrano: So, this is your revenge?

Compte de Guaiche: Take it to mean I serve King and vent my spleen.

Rostand:
I may not be a smart man, but I know who Stephen Hawking is.

BY JADEEP SINGH

It happened almost a week ago. The day started off as usual. I got up around 3 in the morning as I usually do. Having already missed all my classes for that day, I decided to check my mail. This is of course pointless since I don't get anything except for those mass mail flyers which are really just handed out to give you those illusions of contact with the real world.

Why would my parents send me anything anyway? It is quite obvious which son they prefer.

I'm not a smart man, but I know who Stephen Hawking is.

The next day is a day full of excitement. The great Stephen Hawking is to give a technical talk on some naked subject which son they prefer.

My name loosely translates means a "lamp," while my brother's name means "The King." After having my hopes dashed yet again, I sat down by the Olive Walk to read the latest memo from our beloved Dean concerning the admission of underwater basketball-seawearing as a P.E. class next year.

Although I was greatly enraged in the memo, something enfused me to look back. I thought about how certain words are just plain funny. One such words which captures the epitome of that idea is spatula. Just say the phrases "Nice spatula!" or "How is your spatula doing today?!" It for some reason is inherently funny.

This meandering of mine was brought to a standstill when Hawking said "perturbation." For some strange reason my friend and I both started to laugh. Then Hawking said it again. We laughed some more. Something about the way his computer synthesized the word "perturbation" had struck a funny bone.

After almost laughing up a lung at the use of the word "perturbation," I promptly dozed off. It was indeed a very strange dream I had.

I was at a Taco Bell. I was at the front of a very long line at the counter. The attendant at the counter was Stephen Hawking in a Taco Bell uniform, holding a spatula. He kept on asking what I wanted. However, I could not promptly answer, because I could not decide between a beef fajita wrap and a steak fajita wrap, which is strange because I am vegetarian.

Upon explaining this dilemma of mine to the attendant, he unleashed unto me a flurry of invectives and profanities. Being quite taken aback, I awoke from my dream to realize the end of his lecture.

As is customary, I appauled with all my might, making it known to the world that since I could not do my part in understanding the lecture I would compensate by appaulding louder than anyone in my section. With that I declare to the whole world that I may not be a smart man, but I know who Stephen Hawking is.
Hello, my name is Kohl Gill, and I'm running for President of ASCIT. A job like this brings a lot of responsibility. I've taken on responsibilities in my House, Rickets, as a member of our Social Team and as a Treasurer. As far as ASCIT goes, I was Rickets representative to the Academic and Research Committee (ARC) before becoming the current Director of Academic Affairs, and chair of the ARC. As the DAA, I was responsible for the 1997 CLUE and, yes, I'm the one that keeps bugging you to write your reviews. I've served on a few committees, the most (read: only) active ones being the ASCIT Board of Directors (as DAA), and the Curriculum Committee.

Wow. That looks like a lot, but probably doesn't mean much to you unless you or anyone you know has done some of it. Well, in my spare time I'm a junior, a Physics major, a Scraw, as I mentioned. I've done a little research, but still don't know if that's what I want to do when I leave Tech. If you want or need to know more about me, you can ask.

I will tell you this, though: I really want to be ASCIT President. I think CII is a place with a lot of sharp people, among the students, faculty and the administration, and I'd like to see some good work done.

There's plenty of work to do. Besides the day-to-day business of ASCIT, alienated alumni, disgraced faculty, and that damn van of ours (I miss it, too), yes, besides all that, we have new issues: Avery, Fresh-on-Grades, and the new Core, that we have to monitor closely if we're to make sure the changes we're making are for the better.

And that's why I'm making this statement — not because I want to over-shine the other candidates (granted, there is Maria, but somehow that just isn't the same, but to let you know I need your help to do this job). That means everything from dropping me a suggestion when you see me on the Olive Walk, to letting me eat at your House and chatting with me when I'm there, to taking some real time to read a memo or fill out a survey that I send you; you must do it, or my job becomes irresponsible.

With that in mind, I ask that you elect me your ASCIT President.

Oh, and I already get the ASCIT doughnuts.

Kohl Gill
x1590 Rickets 56

I thought for quite a while about what to write in this statement, and I don't feel that what I have to say can be effectively summarized in a couple hundred words and in a few minutes of your time.

I could tell you why I think the honor system is an amazing part of life at Caltech, but you already know that the honor code is a great thing. I could tell you about all of the things that I want to see happen at Caltech in the next year, but that is a constantly evolving list. I would also hope that list would be mostly based on what the undergraduate community as a whole wants and not on my personal agenda.

I could also give you a list of my qualifications and try to convince you that I am a better choice than "NO!" but I don't think that the things that make a candidate qualified for an office can be summed up in any election statement. I have served as BoC Chair for the past year and was a BoC Rep at Large for the year before that, but I don't think that this experience is what makes me qualified to serve as BoC Chair. What really matters is whether or not I have the motivation, the enthusiasm, and the ability to do this job for the next year. I'm not sure whether I have the abilities that it takes to do an excellent job as BoC Chair, but I do think that one of the things that I have learned over the past year is what those abilities are, and that discovery is a large part of the battle.

In the end, I think that the only day that really belongs in this statement is the one that serving as BoC Chair and ASCIT Vice President for the past year has made a great deal to me, and that I want this opportunity to try to do my best to serve the community in this way for the next year.

Thank you,
Maria F. Satterwhite
E100: Techers choose entrepreneurship over academia

For a number of years, it has been apparent to me that the career opportunities for graduates from the top US technical universities have changed a lot.

You have a community of students and postdoctoral fellows here who are independent and very smart, many of whom would rather work for themselves; sell their ideas to a different set of customers.

The way we prepare the students should reflect the skills they will need to survive and learn.
Dean's Corner

Honor the system

by Jean-Paul Revel

However, as pointed out in a letter by Professor Lindal, Chairman of the Division of Civil and Mechanical Engineering and Aeronautics (quoted in the title for "46-47") "The enforcement of the Honor Code by the students themselves is another outstanding feature which must be maintained in the highest tradition of honor and fairness. Non-enforcement or unfairness cannot be tolerated."

One of the problems with the Honor Code today is that it is enforced very quietly, with a velvet glove which avoids unwanted attention on the accused orormeously suspected. The importance of secrecy was expressed as early as 1910 by President Schott of the Throop Polytechnic Institute as we were then known, who quotes "President Eliot" (presumably Charles, the Harvard President who did so much to shape American Education) as saying: "No publicity should be given to students' offenses or defeats, and the record of actual censures and punishments should be made as little condonatory as lawful permits."

This was not always so. As I read in the title for 1944, and also in one dated 1949, which explains that "in an exam...if a group of students were caught cheating...the violator was severely punished." This method not only shook the violator but also startled everyone else in the room and makes them aware that the Honor System is really in operation. This seems an odd way of maintaining secrecy (although pains were apparently taken to avoid publicly naming the suspected breakers). Also, the same pamphlet says that the honor code allows students to take exams in private. I guess that, as the case may be, some exams were taken in class although not proceeded.

Be this as it may, I have heard several Prof's tell home stories, usually centered on the fact that there often seem to be no repercussions when they report a suspected mis- behavior. The BoC's actions are conducted in secret so as not to compromise innocents. The Prof's, meanwhile, often take steps to encourage the student who has been in response to their complaint, or noting that the sentence is apparently very mild, often a more notification of part of an exam, think the whole thing is a sham. Why should they waste their time, or treat the students?

It is correct that the philosophy behind the actions of the BoC is not to pun- ish. The Honor Code only seeks to rea- lize the advantage that a student might have gained by his deeds. This is jarring to many since the Judeo-Christian ethic to which the majority of us adhere and in which we live, is punitive. A common expectation is that the wrath of the Lord will descend on us for breaking the law. The idea of neutralization and protection of the community rather than punishment was supported already by President Schott in another quote of Harvard's ("Eliot in the Bulletin of the Throop Polytechnic Institute of October 1910 says, "college officials should hear constantly in mind the plain fact that most college offenders, even those who commit ordinary crimes, such as cheating or stealing, if conscientiously and mercifully dealt with, and if not fined in body, recover themselves completely and turn out to be useful citizens." So the rack, or the knout, are definitely out. However this does not mean that neutralization is a lighthearted business. It merely shifts the punishment to the perpetrator. It is the weight of knowing that one has broken the confidence of one's peers and others at the Institute, which constitutes punishment. For the sensitive and intelligent, that is in fact a pretty steep burden to carry, one that does not go away as it would if punishment were just a mere consultation for the crime. On this thought... a fratern-- with more to come on the topic.

Horny Toad!: skankin' the world around.

For Horns! Santa Monica ska Strikes

With the big commercial successes of No Doubt and Sublime, ska is slowly becoming the new alternative to grunge. But ska is in and of itself is a mixture, a menagerie of swing, reggae, rap, punk, and jazz. Because of this, some corenopy, every ska band is dif- ferent on many levels. Take, for instance Horny Toad!, which hails from right around the corner here in Southern California. They've got an eclectic mix of ska and punk and their debut album, "Threre", typizes their varied style.

"New fans are always coming up to us after a show and saying how different we sound, but then they start naming all these groups which we live, is punitive. A common expectation is that the wrath of the Lord will descend on us for breaking the law. The idea of neutralization and protection of the community rather than punishment was supported already by President Schott in another quote of Harvard's ("Eliot in the Bulletin of the Throop Polytechnic Institute of October 1910 says, "college officials should hear constantly in mind the plain fact that most college offenders, even those who commit ordinary crimes, such as cheating or stealing, if conscientiously and mercifully dealt with, and if not fined in body, recover themselves completely and turn out to be useful citizens." So the rack, or the knout, are definitely out. However this does not mean that neutralization is a lighthearted business. It merely shifts the punishment to the perpetrator. It is the weight of knowing that one has broken the confidence of one's peers and others at the Institute, which constitutes punishment. For the sensitive and intelligent, that is in fact a pretty steep burden to carry, one that does not go away as it would if punishment were just a mere consultation for the crime. On this thought... a fratern-- with more to come on the topic.

Horny Toad!: skankin' the world around.

For Horns! Santa Monica ska Strikes

With the big commercial successes of No Doubt and Sublime, ska is slowly becoming the new alternative to grunge. But ska is in and of itself is a mixture, a menagerie of swing, reggae, rap, punk, and jazz. Because of this, some corenopy, every ska band is dif- ferent on many levels. Take, for instance Horny Toad!, which hails from right around the corner here in Southern California. They've got an eclectic mix of ska and punk and their debut album, "Threre", typizes their varied style.

"New fans are always coming up to us after a show and saying how different we sound, but then they start naming all these groups which we live, is punitive. A common expectation is that the wrath of the Lord will descend on us for breaking the law. The idea of neutralization and protection of the community rather than punishment was supported already by President Schott in another quote of Harvard's ("Eliot in the Bulletin of the Throop Polytechnic Institute of October 1910 says, "college officials should hear constantly in mind the plain fact that most college offenders, even those who commit ordinary crimes, such as cheating or stealing, if conscientiously and mercifully dealt with, and if not fined in body, recover themselves completely and turn out to be useful citizens." So the rack, or the knout, are definitely out. However this does not mean that neutralization is a lighthearted business. It merely shifts the punishment to the perpetrator. It is the weight of knowing that one has broken the confidence of one's peers and others at the Institute, which constitutes punishment. For the sensitive and intelligent, that is in fact a pretty steep burden to carry, one that does not go away as it would if punishment were just a mere consultation for the crime. On this thought... a fratern-- with more to come on the topic.

Horny Toad!: skankin' the world around.

For Horns! Santa Monica ska Strikes

With the big commercial successes of No Doubt and Sublime, ska is slowly becoming the new alternative to grunge. But ska is in and of itself is a mixture, a menagerie of swing, reggae, rap, punk, and jazz. Because of this, some corenopy, every ska band is dif- erent on many levels. Take, for instance Horny Toad!, which hails from right around the corner here in Southern California. They've got an eclectic mix of ska and punk and their debut album, "Threre", typizes their varied style.

"New fans are always coming up to us after a show and saying how different we sound, but then they start naming all these groups which we live, is punitive. A common expectation is that the wrath of the Lord will descend on us for breaking the law. The idea of neutralization and protection of the community rather than punishment was supported already by President Schott in another quote of Harvard's ("Eliot in the Bulletin of the Throop Polytechnic Institute of October 1910 says, "college officials should hear constantly in mind the plain fact that most college offenders, even those who commit ordinary crimes, such as cheating or stealing, if conscientiously and mercifully dealt with, and if not fined in body, recover themselves completely and turn out to be useful citizens." So the rack, or the knout, are definitely out. However this does not mean that neutralization is a lighthearted business. It merely shifts the punishment to the perpetrator. It is the weight of knowing that one has broken the confidence of one's peers and others at the Institute, which constitutes punishment. For the sensitive and intelligent, that is in fact a pretty steep burden to carry, one that does not go away as it would if punishment were just a mere consultation for the crime. On this thought... a fratern-- with more to come on the topic.
The Golden Globe Awards

The Hollywood Foreign Press Association (HFPA) handed out their annual TV and Movie awards Sunday. While you may know that Oscars are awarded by the Academy of Motion Picture Arts and Sciences, an association of movieland professionals, it's likely you have no idea who the HFPA is and why they have an awards show. The HFPA is a group of about 85 people who write publicity stuff for foreign magazines (when not on their day jobs) and they have an awards show because it's a free country and they wanted to throw a party with a bunch of Hollywood glitterati.

The reason why people pay a certain amount of attention to the Golden Globes is because they act as a reasonable predictor of the Oscars and help box-office receipts. They get a lot less respect than the Oscars, though, because they aren't voted by professionals and are even more of a popularity contest than the Oscars—in 1981 Pia Zadora got an award after her husband treated the membership to a Las Vegas trip.

So this year, there were a couple of nice surprises. "The X-Files" cleaned up the TV Drama awards and little-known Brit Brenda Blethyn won Best Actress-Drama for Secrets and Lies. But the surprise sign that the Golden Globes were still the Golden Globes was the hat-trick for Evita, which won Best Original Song and Best Picture and Best Actress in the Comedy or Musical category. In retrospect I don't think that in my review of Evita accurately conveyed that despite being grand entertainment, the characters seem distant and unconnected and the film itself doesn't really stay with you any longer than a sugar high (which I suppose I should be thankful for, considering the music).

Ziggens, Action League, Slightly Stoopid, My Superhero, and the Sublime mini-movie at the Alligator Lounge, January 17

This show last Friday in Santa Monica featured mostly bands from around Long Beach, my hometown, along with the premiere of the mini-movie about Sublime, the popular Long Beach band whose leader died of a heroin OD last May. My Superhero was a pretty decent ska band, remarkable mostly for appearing in blue jumpsuits and having an accordion. Slightly Stoopid was really bad, with lame, noisy songs about being jerks. The lead singer of the pop-rock band Action League is a good friend of mine from high school, so take it with the appropriate caveats when I tell you they were the best band of the evening, despite the nearly-inaudible lyrics. Action League packed more energy into their 7-song set that most bands would put into a show of twice that length.

Ziggens was certainly the most musically talented band on stage, and their drummer was a lot of fun to watch, but as they said in This Is Spinal Tap, "There's a very fine line between clever and stupid," and Ziggens spent a little too much time on the wrong side of that line. Coming out on stage wearing Canadian Mountie uniforms is clever, writing songs about Gilligan and Debra Winger and singing them in a dumb little-boy voice is just stupid.

The Sublime mini-movie was downright terrible. The first part was a silent home movie in which the members of the band acted out the Star Trek episode "Arena," and the second part intercut some passable music videos with moronic interviews with band members and friends. The entire production, with the possible exception of the music videos, was made with neither wit, insight, art, or even technical skill. The hardcore Sublime fans in the audience screamed in approval at things like the sight of the band leader's Dalmatian, but unless you're intimately familiar with the band's inside jokes and think that the Sublime lifestyle (which seems to be sitting around getting drunk and writing "sincere" songs about nothing in particular) is the coolest thing on earth, I can't possibly recommend wasting 30 minutes of your life watching this tripe. Perhaps by the public exhibition of things such as this, we appreciate quality even more.

Shine

This Australian movie about piano prodigy David Helfgott, who suffered a nervous breakdown in college and only came into the public eye again twenty years later, is a very good film, but it's nowhere near the masterpiece its supporters are touting it as. Unfortunately, I fear that it's also moving into the front of the Oscar race; for all its merit, it's an unchallenging classic feel-good story that has a virtue, powerful middle but runs out of steam and story early in the third act. Also unfortunate is that Geoffrey Rush, the actor who plays David as a post-breakdown grown man, is getting all sorts of accolades, whereas Noah Taylor, who portrays David as an adolescent, is being ignored. Rush's David is good, yet a one-note Rain-Man-style babbling idiot, while Taylor (with roughly equal screen time) has a much more fully realized role, breaking away from his authoritarian father yet teetering on the brink of insanity. The piano competition scene alone is worth the price of admission, and the rest is still better than most studio fare; I just feel that the hype surrounding this movie is a bit unwarranted.

Mother

Mother is both endearing and hilarious; it's the best movie I've seen about parent-child relationships since Spanking the Monkey, and while you couldn't pay me to watch Spanking the Monkey with my mom in the room, you'll enjoy Mother even more with your parents. Albert Brooks (who directed Lost in America and Defending Your Life) and was born with the name Albert Einstein) plays a divorcee who moves back in with his mother to figure out where he went wrong. Debbie Reynolds is perfect as his dotting and daffy mom, and has considerable Oscar buzz. This is the first Albert Brooks feature I've seen, and now I want to check out his others.
Sports

Men's basketball takes first at Hi-Tech tournament

Caltech dominated southwestern to take first at the 7th Annual Hi-Tech Tournament January 3 and 4. The teams included Caltech, southwestern, Arizona College of the Bible, and Life Bible College.

In the first game of the tournament, southwestern easily beat Life Bible. Caltech paired up against AZ College of the Bible. It was a close game throughout. ACB had the lead the majority of the time. Caltech pulled ahead within the last minute with a three pointer by Josh Moats. The final score: CIT 53, ACB 50. Ben Turk lead the team with 23 points and 10 rebounds.

The second night of the tournament saw ACB defeat Life for third place. For the finals, Caltech was matched up against southwestern. With a previous loss to the Eagles earlier in the year, the Beavers were out for revenge. They came out strong and played their best defense thus far. In the first half, the lead went back and forth, but the Beavers pulled ahead before the half and never gave it up. At the final buzzer CIT was up 45-31, giving the Beavers the first place trophy. Moats lead with 12 points, followed closely by Rajat Doshi, Matt Dawson, and Grant Williams. There are also four newcomers this year and depth to the team. They include junior Natasha Kaga, sophomore Lisa O’Rourke, and freshmen Amanda Schaffer, and Audrey Lee.

Caltech spring sports preview


McKinsey & Company

Business Analyst Program Reminder

Interested candidates must submit their resumes along with transcripts and SAT/GMAT/LSAT/GRE scores by Friday, January 31, 1997 to:

McKinsey & Company

400 South Hope Street, Suite 700
Los Angeles, CA 90071-2890
Attn: Susanne Mahoney

Interviews will be held on Tuesday, February 11, 1997

An equal opportunity employer
Spring sports
CONTINUED FROM PREVIOUS PAGE
work to improve...I'm looking forward to being part of the team's growth process this year.

The team is hoping to be more competitive in all their games and especially in conference play. They are hoping this will earn them a measure of respect from their opponents.

• Track
The Beavers began their season workouts under the guidance of Head Coach Don Bene who is in his second year as track coach. He is assisted by new coach Julie Farnan who was coaching the sprinters and throwers.

The men's team has two returning seniors, who are key runners. They are Chris Cary and Karl Thulin. Four key juniors are returning as well. They include Brianarris, Dan Kleinman, Harmesh Lad, and Evan Reed.

The women are short in numbers, but some key returnees have experience that will be very helpful to the Beavers. Those returners include seniors Keely Walker and Cailin Henderson, and sophomore Adelene Pierce.

Coach Bene is hoping for the team to perform to the best of its ability and to have a good season...

• Golf
The 1997 golf team began its season under the guidance of Head Coach Mike Jackson. He is in his seventeenth year at Caltech and has been coaching for 30 years. He is assisted by Tom Jarrett. Three key players from last year will be returning. Those include juniors Kyle Sickle and Karla Nakoda, and senior Clay Kishiyama. Senior Josh Moats will be returning at the end of basketball season. Coach Jackson is hoping to see the team make a gradual improvement over the season.

He is also hoping to finish in the season in the middle of the pack in the conference. The team opens with their first match against UCSD and CS Bakersfield on January 27.
Events

Caltech is sponsoring a one day Blood Drive which will be held in the Winnie Student Lounge on Friday, January 24th, between 9:00am and 3:30pm. To arrange to volunteer, call Vila Zimandzin via e-mail at adma@caltech.edu or at extension 6001 for an appointment. Walk-ins are also welcome.

The Caltech Jazz Bands will perform at Beckman Auditorium on Saturday, January 25th, starting at 8:00 pm. All the composers will be featured, including Martinu, Gershwin, Lecuona, and Villa-Lobos, and Dedaglia's Suite . Prices are $9.00. Admission is free for more information contact 6452.

• Chuck Latino presents Late Night salsa parties on Friday and Saturday at the Sunrise Ball. Live salsa and merengue band "Cumbre Latino" begins performance at 9:00 pm and continues until 2:00 am on both nights. Salsa workshops offered from 8:00 pm to 9:00 pm. Refreshments provided.

• On Monday, January 27th, at 9:00 am in Winnie Student Lounge, the students will be speaking on Creationism. Mr. Van de Water will be the main speaker and主管部门 will be holding a Q&A session following the lecture.

• Myrtle Harris Distinguished Lectureship Watson Lecture.

• The CCF welcomes "Intel" for "Looking for a safe and supportive place to discuss issues such as coming out, being gay, dealing with homophobia, and building a homosexual culture, and being GLBT at Caltech?" This event will be held in the Beckman Auditorium on Jan 30th with refreshments served afterward. For more information contact 6544.

• Vannevo will give a free concert on Sunday, February 2nd, at 9:00 pm in Deady Lecture Hall. Pianist Volodya Khristenko and violist of the Amo's highly organized interpretative ensemble will be performing. The program will consist of Medieval and Renaissance music. For more information call 6542.

• Caltech's annual Research Directors Conference will be held February 5th and 6th in the Beckman Auditorium, with concurrent poster sessions from the Electrical Engineering, Computer Science and Chemistry Departments. For more information call 818/795-4087 or เก็บเรียกค่า at ccp.caltech.edu.

• The Berlin Philharmonic Wind Quintet will be performing at Beckman Auditorium on Monday, February 3rd, at 8:00 pm. The program consists of 25th. Prices for Caltech students are $10.00 and $13.00, the price for Caltech guests is $20.00. For more information call 4652.

• Caltech students interested in a career in nuclear engineering are invited to attend the Career in Nuclear Engineering Seminar. Native American and Native Native American students interested in careers related to health care and tribal public policy are invited to apply to be named a tour. The Morris K. Udall Scholarship is designed to provide financial assistance to those who are legal residents of Los Angeles County, and attending college full-time. Applications must have a minimum GPA, must be a sophomore or junior, and must be able to document significant financial need. The deadline for the completed applications is April 15th, 1997.

The American Society of Naval Engineers is offering $2,000 scholarships to academically qualified students in nuclear engineering and marine technology. A $1,000 grant will be available to students majoring in nuclear engineering. Applications are due by April 15th, 1997. The National Society of Black Engineers is offering $2,000 scholarships to academically qualified students majoring in engineering and science who are either last year's last year as an undergraduate or are for one year of graduate study (doctoral candidate or non-degree). The deadline to submit applications is February 15th, 1997.

The American Chemical Society is sponsoring a scholarship program to qualified applicants who wish to study advanced degrees in the field of chemistry, biochemistry, chemical engineering, or other chemistry-related fields such as environmental science, materials science, or toxicology. The following are eligible to apply: students, faculty members in the African American, Hispanic/Latino, American Indian, or Alaskan Native, and must be U.S. Citizens or permanent residents. Applicants must also be full-time graduate students majoring in one of the above fields, and demonstrate financial need. The deadline to submit applications and supporting documents is February 28th, 1997.

Doug Aynsara of the Danville-Alamo Branch of the American Association of University Women (AAUW) will be awarding six scholarships to male college students who will be juniors or seniors as of September, 1997, who have lived in the San Ramon Valley, or have attended school there. Application is open to all male college students, scholarship, achievement, educational goals, financial need, and campus community involvement. A $1,000 scholarship package can be obtained from: Mary O. Crooks, 2350 Round Hill Drive, Alamo, CA 94507. Completed applications may be postmarked by Tuesday, April 1st, 1997.

The Caltech Biology Club is sponsoring an evening of March 1st, 1997.