As the new year gets underway, we find that it is already time to begin looking for a summer job. Perhaps you’ve been asking your friends what their plans are, trying to figure out what you should do. While many may suggest SURF projects, you want a change in scene—or in subject matter. Most jobs you’ve considered require you to work at least during the summer before finals and you’re now considering the local grocery store or just taking the summer off. If this is you, or if you have an interest in politics, the Beckman Political Internship may be for you.

An important reason that we came to Caltech was the appeal of the idea that since every student was primarily interested in science, opportunities in other fields would be more accessible. The Beckman Political Internship is one of these opportunities. If you are interested, submit a brief proposal describing where and how you would like to spend ten weeks in Washington, D.C. working in the office of my Nevada Representative, Barbara Vucanovich.

As I learned in Washington, the job of an intern is about the same in any Congressional office, although larger offices have more specialization. My office was rather small, having only nine staff members, so I got to try just about everything. The intern’s responsibilities, like most of the staff, lie in dealing with constituents. Most of the forty hours per week I spent in the office were used to enter the names and addresses of all constituents who wrote letters to the Congressman. Mail arrived three times daily so this was an ever-present task. Every letter from a Nevada receives a reply, usually a form letter that details the Congressman’s position on the issue addressed by the constituent. I also answered the busy phones, taking messages from constituents and transferring calls from staff to other offices to staff in ours. Making copies, sealing envelopes, faxing material, filing, moving furniture for some staff members while others were gone, taking constituents to the galleries, calling Nevada television stations with press release news, and dozens of other little jobs filled up the rest of the time.

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Tech prepared for quake

by Margaret Belska

With the recent disasters plaguing southern California (fires, fires, and most recently, earthquakes), questions have been raised about just how well prepared we are at Caltech in case of a major disaster. Will we be able to handle it if, for example, the Big One hits?

"We think we’re fairly prepared for the Big One," said Bill Irwin, Assistant Director of Physical Plant, "but I don’t think anyone ever really knows." Stan Borodinsky, Student Affairs Administrator, and Casimir Schiowski, Safety Officer Manager, agree. Although Caltech has set up the Emergency Preparedness Plan, a regularly updated emergency response plan, no one can accurately predict the effect of a nearby major earthquake. However, "We’re not completely unprepared," added Irwin.

Many precautions have been taken at Caltech for a major earthquake, or any disaster that would temporarily cut us off from outside aid. Caltech has enough food and water on hand for a population of about 300, (this includes about 1500 student residents, staff, and faculty), for a period of about 72 hours. The food in question is that kept in Chandler, the Coffee House, the Red Door Cafe, and the Food Court, each of which has enough food for three days, under the rubric: "earthquake."
Roopnarine article biased

This letter is in response to the article concerning Daanby's disco victory that appeared in the February 18, 1994 issue of the Tech, and "Mr. Roopnarine's unique journalistic style." Judging from the article, I can only assume that "unique journalistic style" means one that contains little to no talent, which is not itself is not at all demeaning, when one considers Mr. Roopnarine's undoubtedly vast fencing knowledge, the lights favored Morgan. Further evidence of Mr. Roopnarine's fencing experience can be found in the assertion that X Qan was clearly in control. Aside from being thoroughly beaten, what precisely was X Qan in control of? I mean, is it not a great story, but he was anything but in control of that match. Nor did Roopnarine mention the miscommunication that caused Matt to lose his second match. When it was 4-4, I called a time out and told Matt that he would have to win both primaries to win the bout, because it was likely that they would simultaneously. However, due to the rush, he misunderstood and thought I said it was Morgan's priority, and proceeded to go on the defense, which is a tremendous disadvantage in sabre.

Finally, the Honor Code is not taken into consideration in social situations. Inside the Houses, or at least my House, "friendly harassing" is a popular pastime. I don't see what is so friendly about it! People are careless about others' feelings, and the point of wanting desparately to leave (and some have).

An Honor Code presupposes honor, does it not? If everyone thought, or at least it was especially actions and words affect people in everything—everything—they do, the Honor Code may work. But for now, I don't see why we should get the benefits the Honor Code offers if we cannot accept the responsibility it presents.

I like to think that perhaps the Honor Code was taken seriously, but now it is essentially useless. People here really don't seem to care how they affect the other people around them. I have been at school and have a lot more honor, and it isn't because they have an Honor Code.

Cherish Bauer

Ernest Explains

Dear Ernest,

Where do you gather all the information you use in your column? It must be grueling to research each topic every week and compile the results into your column.

—Impressed in Ruddock

Dear Ernest,

Who is the greatest rock and roll artist of all time?

—Searching for Direction

Dear Searching,

Who is the greatest rock and roll artist of all time?

—Basketball articles

Dear Mike,

According to the principles of dialectical materialism, as put forth by Karl Marx, the means of production must eventually be owned by the workers. This means that one day, the Board of Directors would lose complete control to the workers by the Revolutionary Dabney. Every student will have to be allowed according to his ability and take according to his need; no one will be dissatisfied, and the controversy will cease.

—Basketball articles

Dear Ernest,

Do you think about the recent controversy over ASCIT?

—Soliciating Opinions in Page

Dear Mike,

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—Basketball articles
**Bosnia**

Although some heavy weapons remain, the Serbs have pulled out enough weapons to avert NATO air strikes. NATO and the United States say they are convinced that the reason for the delay was weather.

**China**

Officials report that forty-nine people were killed when paramilitary police moved in to stop rival religious groups from fighting. This announcement is a rare confirmation of Muslim unrest in China.

**Egypt**

Four people were wounded on Saturday when Muslim militants attacked their luxury train. The group known as Gamaa said the attack was in retaliation for the death sentence of an army officer and two conscripts.

**Mexico**

Before the rebel uprising can be settled, the Mexican government must decide whether or not to give death sentence of an army officer following the rebellion of Chiapas.

**World News**

by Connie Chang

The California Tech

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If you have any general questions about ASCIT, please contact me at dederkits@cco, x1400, Page

130, or MSC 550.

News from the new ASCIT BOD

by David R. Derkits

On Tuesday, the first of March, the new Board of Directors takes office. As the Secretary of this new BOD, I would like to bring the following to your attention.

For the remainder of second term, the BOD will continue to meet on Tuesday (March 1 and March 8) at 10:30 a.m. in the ASCIT office (SAC 64). Those with business should come at the beginning of the meeting with at least fifteen copies of any material they wish to present to the BOD. If you have concerns or comments you would like to share with the new BOD, feel free to join us.

Angie Bealke, the new President, will have office hours from noon until 2:00 p.m. this Wednesday--Friday (March 2-4) in the ASCIT office.

The following offices can be found in the following of the meeting with at least fifteen copies of any material they wish to present to the BOD. If you have concerns or comments you would like to share with the new BOD, feel free to join us.

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Swimming ends strong with record set

by Agota Spitz

The year was 1968. A short, muscular man from the California Institute of Technology traveled to St. Cloud, Minnesota for the National Swimming Championships. The race was the 100-yard freestyle. The man's name was Henry DeWitt, and his fourth-place finish was remarkable—his time of 49.20 would stand for twenty-six years as a Caltech record.

The record fell last week when sophomore Mike Greene, swimming in the SCIAC Conference Championships, took it down to 47.93. The swim was a lifetime best for Greene, who said after the race, "I wasn't sure I was going to make it back to the finish, I was so exhausted." Greene's race was one of the highlights for the Caltech team during the three days at the Championships.

Oldenburg named Athlete of the Week

by Tom Dnukauskas

The track team got off to a quick start in their first meet of the year on February 12th. In dual meet scoring, the women obliterated their competition, while the men were surpassed only by Biola. True, the Caltech Invitational I did not attract the likes of UCLA or even Oxy, but nonetheless, the outcome was a reason for optimism. Amy Oldenburg led the women by scoring 54 points via placing 2nd in the 100 m, 3rd in 200 m, 1st in shot, 3rd in discus, and running a leg of the 3rd place 4 x 100 m relay. This performance earned her the award of California-Nevada Track and Field Athlete of the Week.
Games and Puzzles: Chess Answers

by Wei-Hwa Huang

So, we made another mistake. Problem 1 in last week's issue lost its description somehow, so the solution will be deferred until next week, along with Problem 3, which has a long solution.

This is White to move and mate in two.

For a mate in three, Charles takes the pawn with his rook. If Black moves his king, R-B3 is mate, so Black must move his bishop. If it moves on the long diagonal, R-B3 is still mate, so it takes the knight or the rook. If it takes the rook, N-B3 forces the bishop to move, allowing P-N4 mate. If it takes the knight, R-B3 check forces B-R5, where Charles can then do P-N4 mate.

Without the white knight, Charles mates in four by taking the pawn with his bishop, threatening R-N4 followed by R-B4 mate in two more moves. The only way for Black to stop this is to protect his R5 square with his bishop in those two moves, e.g., B-K6 followed by B-N4. In this case, Charles does R-B4 anyway. Black must take the rook with his bishop, allowing P-N4 mate.

Without knight or pawn, Charles exploits his open king file route by moving R-N7, threatening to mate in three with R-N1 followed by R-KR1 mate. Black can delay this by sacrificing his bishop on his 5th rank for one move, but he does a bit better by attempting to interpose the bishop on the king rank file. He can do this in three moves on R5 or two moves on R7. If he tries R-B5 when Charles plays R-KR1 check, Charles gives Black a Trojan horse by sacrificing his rook at R2. Black’s only move is to take the rook with his pawn, allowing P-N4 mate. On the other hand, if Black tries R-B7, Charles moves R-K1. Moving the bishop leads to R-B8 followed by R-N1 mate, so Black must move his king to R8. After Charles moves his king to N6, Black has no way of avoiding R-K5 mate. (Of course, B-QR1 would have worked just as well.)

Without the rook, Charles moves N-B3, immobilizing the King and threatening to take Black’s pawn next move, followed by P-N4 mate. Black can’t take Charles’ Pawn since then P-N4 is mate, so Black must move his bishop. He must protect his pawn, so B-K1 is the only real move. Knight takes bishop, and Black still can’t take the Pawn because of N-B3 followed by P-N4 mate (nothing Black can promote to will help him), so Black moves K-B3. Charles moves P-B3. P-B4 by Black leads to N-B3 mate, so Black is forced to move K-B4. Charles then moves N-Q3, forcing K-B5. N-B4 forces P-R4, and N-N6 is mate.

Problem 4

The main theme is 1. R-B5 KeP, 2. RxN K-N1 3. R-K1 K-B1, 4. R-B5 mate. And now you know why it’s called the “Perimeter” marvel! If Black moves his knight instead of taking the pawn, P-R8 (R or Q) is mate; if Black moves his king to R4 instead of taking the pawn, R-B4 is followed by P-R8 (R or Q) mate. If Black moves to R3 instead of N1, R-B1 is mate; and if Black moves to R1 instead of N1, K-B7 is followed by R-B1 mate.

And, a bonus question: Sam Loyd’s “Excelsior!”

White to move and mate in 5. This problem is the basis of the “Excelsior” theme, obviously suggested by the poem by Longfellow.

The Occidental College Performing Arts Series Presents

Richard Grayson’s 25th Annual Classical Keyboard Improvisation and Live Electronic Music Concert

Friday, March 4, at 8 pm Thorne Hall Occidental College

On the spot improvisations based on audience themes. Synthesizers, Keyboards, and Computers galore.

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Student-Faculty conference needs your participation

by Flora Ho

Will the 1994 Student-Faculty Conference change the face of Caltech? The most important factor is, of course, attendance and active participation. Without students and faculty showing their support for the conference by showing up, how can there be motivation for change? We must realize that while we will not always be hundred percent satisfied with Caltech, we can make improvements. That’s what the Student-Faculty Conference is about—addressing prevalent concerns among members of the Caltech society, providing a vehicle for you to express your opinions and ideas, and finally, generating enough interest and support to actualize solutions to those concerns. Significant changes require persistence and time, and chances are we won’t be around to see the dawn of a brand-new Caltech perfectly suited to our needs. The recommendations we’re proposing at this conference probably won’t turn your life around, but they certainly will move Caltech in the right direction.

It has been noted, reasonably enough, that because the 1991 Student-Faculty Conference produced few tangible results, this conference can avoid the same fate by looking at the lessons taught by previous conferences. Because attendance was high and many suggestions were approved, the conference itself was actually very successful—but because so many recommendations failed to be implemented, the overall outcome was less satisfactory. What have we learned from the last conference? Primarily, to keep our goals realistic and our ideas implementable; to limit ourselves to a few strong, concrete proposals per committee, because having too many makes it difficult to affect any; to phrase these proposals such that they can be presented, with necessary modifications, to the proper offices for more rapid approval and subsequent implementation; and to remember that albeit we’re hoping for campus-wide participation, the conference itself functions only as a forum—the work remaining after February 25th (that is, seeking implementation) will be the true determinant of the conference’s success.

As a reminder, the four panels will be dealing with: Improving Communication, the Core Curriculum, the Quality of Teaching, and the Honor System. The faculty board has asked that professors encourage attendance in whatever fashion they deem appropriate, whether through re schedul ing/cancellation of classes, bringing their classes to the conference, or otherwise. Refreshments will be provided, as well as an Olive Walk dinner at the conclusion of the conference, which we hope will facilitate student-faculty interaction and stimulate further discussion.

One final note. Endavors such as the student-faculty conference should always be approached with a certain degree of acceptance that improvements may be neither immediate nor drastic, but more importantly, with the belief that we have the responsibility to voice our opinions as well as the power to produce changes. These biannual student-faculty conferences are held with the intent of improving the quality of life here at Caltech. Isn’t it worth your while to grab this opportunity to make yourself heard? We hope to see you there!

ynews

by Sam Webb

Once again, the Y news is back to inform you of the nifty things going on with the Y. This Friday at noon in the Winsett Quad, the African American Drum Group will be performing for your lunchtime pleasure. Bring out your lawn chairs and listen for a while. On March 5th, Peter Russel, the author of “White Hole on Time”, will be giving a presentation entitled “Physics, Psychology, Philosophy, Computer Science, and Business: A New Perspective on Humanity’s Place in the Universe” in the Beckman Institute Auditorium. If you’re interested in your place in the universe, contact the Y for more information.

And last, but certainly not least, Boffo Nosecrusher Broomball is back again! Once again, eight teams will emerge on the ice. Spaciers are limited, so sign up quick. Promised to be better than ever, so even if you don’t play, come by to watch. Remember, that’s on March 5th. If you have any questions on coming Y events, contact the Y at stb63.
Wilson at the behest of Professors Robert A. Millikan and George Ellery Hale in order to allow the government to have ready access to a single, unified body which would be able to provide them with information on political topics vitally connected to the sciences, and to facilitate more efficient use of government research money. The communication between the government and the National Academy of Sciences is carried out by the National Research Organization, which is essentially a subcommittee of the National Academy. Another committee, the Office of Science and Technical Policy, also exists to provide the government with information about scientific issues. However, Dr. Press noted that, since the OST is actually part of the government, many of the positions in it are rewarded to individuals as political favors, with no regard to complete lack of technical background. Both the National Research Organization and the Office of Science and Technical Policy report to the President's science advisor, whose responsibility it is to brief the president on scientific issues, and is also required to appear before Congress to provide them with necessary information. Dr. Press then went on to give some examples of how a science advisor should go about informing a president or prime minister on a variety of issues by giving a short exposition on several subjects as if he were advising such a leader. For example, when dealing with the subject of global warming, he pointed out that, while the effects of increased global temperatures due to greenhouse gases might be catastrophic, the connection between carbon dioxide emissions and the greenhouse effect has not yet been established to a point that it can be said with certainty that changes in climate are due to human actions rather than natural fluctuations, and, even if this fact were to be established, the cost of legislating the phasing out of hydrocarbons as a source of energy would be prohibitive, costing up to several trillion dollars over many years. Thus, Dr. Press said that his advice would be to institute a kind of "insurance policy" by creating legislation to encourage conservation of energy and the development of alternate energy sources, which are relatively inexpensive measures which make good financial sense in and of themselves. According to Dr. Press, the communication between science and government is sometimes less comprehensive than it ideally should be. As a case in point, he gave the example of the Strategic Defense Initiative. Apparently, Ronald Reagan announced this as a presidential initiative of vital importance while his science advisor was away in Europe, and had not consulted with anyone in the scientific establishment about it. Not surprisingly, then, this project was of a type that the advisors never would have decided was urgent, because the amount of money needed to fund such a project was utterly prohibitive, the technology to build such a thing in any useful way did not (and still does not) exist, and its costs far outweighed its probable benefits. Nevertheless, the project was funded by Congress. Dr. Press made many such examples, and, in the end, he concluded that, while it is often difficult and frustrating to advise the government on scientific issues, this difficulty is far preferable to doing nothing, and thus, his answer to the question "Can scientists provide credible advice in Washington?" was yes, though a qualified yes. The qualification, as he stated it, was that they give advice the way porcupines make love—very carefully.

Ricketts wins bridge trophy
by Jeff Goldsmith

For the second year in a row, Ricketts House won the Interhouse Bridge Tournament. They beat Lloyd, Page, and Ruddock. The Ricketts team was Dan Xystus, Jim Schaal, Steve Farris and Jeff Goldsmith.

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IHC minutes for Monday, February 21, 1994

by Craig Smith

Present: Asif Hasan (chair & late), Eric Slabyack (chair-elect), all the presidents, Stephanie Haussmann, Laurent Stadler, Steve Skovron, and Tom Mannion. Dave's (Perriman) World: Let's impeach Asif (for being late).

He wants to know if any other Houses have invitation-only parties. He is dealing with how to disinvite people from Apache in a fair way. There was a vote to impeach Asif (for being late).

Among his misdeeds: sleeping in Professor Ruddock loading zone, and having a tall, blond guy causing trouble in his House. He is dealing with how to make a policy and stick to it on this particular issue. What if we were to actually follow the bylaws and require the Ath Lists to be submitted to the IHC each term? Then decisions could be made at the beginning of each term, and we wouldn't have the votes before each term. The problem is a conflict in attitude toward interhouse athletics: competitive vs. non-competitive. The Houses have the right to define their own membership (or do they, with respect to interhouse athletics?). We eventually decide the following:

- Ath Lists shall be submitted to the IHC at the first meeting of the term (the first meeting after Rotation for First Term) clearly indicating potential members who do not fall into the following two categories: registered undergraduates and RAs. At the next meeting of the IHC, the Ath Lists for the term will be finalized.

The above passes, 7-0-0. The IHC seeks that a good policy for athletic teams to follow in the instance that they want some non-Athletic members not on their athletic list to participate in a particular sport is to, before the sport commences, agree with all other athletic teams whether the individual may play or not. This will hopefully be better, as Athletic managers will not be forced to directly tell an individual at the scene of the event that he/she may not participate.

TODAY, Dave Townsend and Albert N. Lee approved for Fleming list for the rest of the term, 6-0-1. Dave Townsend and Albert N. Lee approved for Fleming list for the rest of the term, 6-0-1.

Parking: Asif, Mooen, and Eric Callam spoke about undergraduates reserved parking in the parking structure. We may get some tokens reserved parking somewhere if you have any questions or concerns about parking, talk to Asif.

Seclusions: Ruddock and Steve Skovron have a plan. They basically want to create (if their House is for it) a non-profit organization to provide ASCIT-El services, and more. Darbs. They want more control in how their money is spent, and feel that they can give the people of Dabney House more rewards from the equivalent of ASCIT dues. They would basically pay ASCIT for some of its services to make the transition easier. Logic: ASCIT is a basically a North House Club. Darbs aren't really members of many clubs anyway. Raging discussion about incompetence and competence of ASCIT omitted.

If you want more information, talk to Lauren or Steve. (It is probably on net news in all its full glory, as well.)

Discobolus: Ruddock beat Dabney in luge (i.e., ice block racing in the SAC). Blacker has challenged, and the next to challenge in IHC. Current order is: BI Pa Ri Li Fi Da (Ruddock has the trophy). Important: there will be no challenge next week, due to Murphy day.

IHC minutes, February 14

by Craig Smith

Present: Asif Hasan (chair), James Honaker (Bl), John White (FL), Mike DeBar (Li), Jim Murdoch (Da), Dennis Ugolini (Ru), Mike DeBar (Ri), Michael Ng (Pa), Eric Slabyack (chair-elect).

Dennis: Page has one of the most far-fetched ideas ever. Darbs aren't really members of any clubs anyway. Mike (Ng) had no idea that Page had one of the masts. Haun (Honaker) was asked if I referred to his letter about fraternity as "nasty." I am really sorry Han (Haun), it was extremely negative.

Dennis: The IHC feels that a good policy for Athletic managers to follow in the instance that they want some non-Athletic members not on their athletic list to participate in a particular sport is to, before the sport commences, agree with all other athletic teams whether the individual may play or not. This will hopefully be better, as Athletic managers will not be forced to directly tell an individual at the scene of the event that he/she may not participate.

Asif: they gave a proposal, as had been done in the past. The logic was that OPI is a party which has in the past been widely attended. Ruddock also received extra money last year.

John: if you take the scoreboard, please return it in the same condition. Page damaged the scoreboard when they took it after elections Thursday night. Mikey (Ng): "God damn my House!"

Asif: COO (Steve Fought in particular) is trying to establish an online edition of the Caltech Phone Directory. If people are interested, they can put student extensions on it as well. Jim: The only concern is the privacy of the information.

Jim: see the caltechweb discuss newsgroup for more about frats and the house system.

Discobolus: Dabney beat Fleming in Fencing; Ruddock has challenged; the next to challenge is Blacker. The current order is: BI Pa Ri Li Fi Da (Dabney has the trophy)

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The Ranger is a series about the Rangers, an American television show. It was created by Tom Ruegger, who also worked on other shows like "The Spider-Man" and "The Smurfs." The series was about giant robot dinosaurs that were supposed to be a new, hot toy. The Rangers were said to be the new, hot toy. The Rangers were said to be overwhelming both "Seinfeld" and "Beavis and Butt-Head" with a mix of concepts for a show, but I was willing to give the show a chance.

I'm glad I did. This is by far the funniest show on TV today, overwhelming both "Seinfeld" and "Beavis and Butt-Head" with a mix of concepts for a show, but I was willing to give the show a chance.

Within this framework, strange and wonderful things are sure to happen, and you are certain to come away from an episode a better person. The Rangers is shown locally on Fox at 5 p.m. on weekdays.

The Passadena Weekly selected the TACIT musical review "Side By Side Sondheim" as one of the "Hottest Tickets In Town." The review was a great success, and was especially well-received. The production provided the missing link to the world of musical hits and unknown treasures.

The cast and crew of the TACIT musical review "Side By Side Sondheim" were predicted to win the Tony Award for Best Revue. This work involved studying even the most esoteric aspects of musical theater. The cast and crew were predicting that the U.S. would win the first game and were going into the quarterfinals without having to deal with the potholes of the 20's. A couple of obsessed engineers took piano rolls played by Gershwin himself (and one from Frank Milne), scanned the rolls, digitized the information, and replayed the songs with a computerized 9-foot Yamaha Disklavier grand piano. Some of the songs, which were in a format that does not feature any information about dynamics on the rolls, were replayed on an antique pianola, which requires a human to adjust the volume of the music. I have no idea which tracks were done by which method.

The Passadena Weekly selected the TACIT musical review "Side By Side Sondheim" as one of the "Hottest Tickets In Town." The Weekly was delighted to learn that the cast and crew of students and staff were "not all engineers," and that the director went on to say that the show would "brighten even the crankiest of spirits.""Side By Side" is a compilation of musical hits and unknown treasures with words or music written by Stephen Sondheim. Featuring songs from the hit shows "West Side Story," "Gypsy," and "A Funny Thing Happened On The Way To The Forum," "Side By Side" has a little bit of everything. It runs from torch songs, such as "Losing My Mind," to comedic numbers like "The Boy From Tacarombe La Tumba Del Fuego" from "S\ Malatas Zacatecas La Junta Del Sol Y Cruz." Last weekend's performances were especially well-received. The audiences applauded greatly. We squeaked and picked up the following quotes:

"Diana Lorden was stunning"--Gary Lee, Los Angeles Times

"Side By Side was great fun"--anonymous JPL employee

"Bavel. Stupendous! A Milestone for TACIT"--Gino Vianelli, director of the highly acclaimed film "Revenger"

Purchase your tickets for this weekend's final performances. Major discount for Caltech students. Tickets can be purchased at the Ticket Office or by calling (818) 395-4093.
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Fault

rolled. Some suggest that it was because A Better Chance (ABC) programs began at other schools, and had more appealing financial aid packages and campus activities for minority students. Others sug­gest that the number of applications from minority students were low. If any of these statements were valid, it would mean something was wrong. Caltech received 1500 applications; it was the most the Institute ever had up to that year. So the question arises: whose fault is it that no minorities enrolled?

The Caltech community may have had part of the blame. The minority community looked somewhat appealing to applying minority students. There was a Black Students Union, and of the 30 Black, Hispanic, and Native Ameri­can students at the time, 10 were women. However, the retention rate was very dismal. Students dropped out and flunked out during their freshman year, while others had severe culture shock. Con­sidering the radical feelings of the 1960’s and the growth of militant organizations such as the Black Panther Party, many under-repre­sented students did not get along with their white colleagues. The Student Support Program (SSP), now known as the Bridge program, was an attempt to remedy this prob­lem, but it was only a band-aid on a larger wound. Lee Browne, the Director of Affirmative Action pro­grams, did not have enough sup­port from the Institute to recruit, retain, and graduate under-repre­sented minority students by himself. With a staff of one secretary and opposition from many in the “Old-Boy” network, Browne was against the odds.

The minority community at large may have had part of the blame as well. Although we do not know the number of applications the Insti­tute received from under-repre­sented minorities, it may not have been many. If we look at the applica­tions from the last few years, we may make a guess as to what the applicant pool was like twenty years ago. In 1989, the year Caltech first kept track of the ethnicity of the applicants, the admissions office received just over 1500 applica­tions. Almost 500 were from Latinos, 20 from African-Americans, and 1 Native American. That is, 3% of the applications received were from minorities. If we assume that this number is comparable to those in the 1970’s, we see that minori­ties were not applying to the Insti­tute. The same year, of the 500 that were admitted (30% of the appli­cants), as many as 20 (40%) were minorities. If a larger percentage of minorities were admitted, it would seem that Caltech was doing its best to enroll minority stu­dents.

Next week, we will see what the true answer is.

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Earthquake

given time.

“We made a decision that we weren’t going to have any special [emergency] food. We have food all the time,” said Borodinsky.

There are five large first-aid boxes placed around the campus, each with the capability of supply­ing basic aid for about 400 injuries. “Our staff [in the Safety Office] is all trained in emergency re­sponse,” Scislowicz said. On the whole there are about 150 to 200 people with up-to-date training in first-aid, and courses are offered to anyone who is interested.

Caltech also has its own emer­gency power generator, located at Central Plant, which could pro­vide the entire campus with mini­mum service indefinitely. All es­sential functions and life support services could be kept on-line in case of a city power outage, but a lot of research could not be contin­ued.

Even with electric and phone lines down, Caltech would still have a link to the outside world through CITARC, the California Institute of Technology Amateur Radio Club, who hold regular emergency response exercises and are pre­pared to go mobile if the need should arise.

If evacuation of the campus is necessary, the Red Cross will set up a shelter, and the athletic fields will be utilized to house students. However, all Caltech buildings were designed to exceed building codes by 50%, and with some of the world’s best structural engi­neers here on campus, Irwin be­lieves it would take a lot of shaking to cause any serious damage to the campus.

However, even in spite of this, after every earthquake an inspec­tion crew that includes individuals from Physical Plant, the Safety Office, the Security Office, and the Office of Student Affairs imme­diately gathered and sent out in groups of two or three to survey any damage and assess the safety of campus buildings.

Education is another important aspect of disaster preparedness. In 1982, five Mass Care Workshops were presented on campus. Four focused on safety goals, protection of campus property, and food and shelter issues. About 100 employ­ees see EARTHQUAKE, page 11

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Ranger Round-Up

<table>
<thead>
<tr>
<th>Monster bought</th>
<th>Sub-plot theme</th>
<th>Lesson learned</th>
</tr>
</thead>
<tbody>
<tr>
<td>Monday</td>
<td>Giant Orb</td>
<td>Science</td>
</tr>
<tr>
<td>Tuesday</td>
<td>Giant Flea</td>
<td>Saved the juice bar</td>
</tr>
<tr>
<td>Wednesday</td>
<td>Giant Jellyfish</td>
<td>Saved high school time capsule</td>
</tr>
<tr>
<td>Thursday</td>
<td>Giant Praying Mantis</td>
<td>Cockroach</td>
</tr>
</tbody>
</table>

Their's.

It started with a vision about propelling business into the information age. Then took off with the world's first relational database. It's now a billion-dollar, enterprise-wide software solutions company that keeps growing at about 25% a year—with new products, bold technological strategies and a head start down the information highway. There's nothing to do here but grow.

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We'll be on campus March 8-9. E-mail your resume TODAY!
Van de Snepscheut

Science department since 1992. Many students may have known him as the instructor of CS 20, a sophomore level computer science survey course.

Earthquake

...were set, prompting a large number of personal records to be broken this week. Will it work? Find out...

Track

...record to win the 440 yards. The lucky enough to be out of town, the best place to be will be the Caltech campus.

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Basketball

...was leading rebounder again with 11 and high scorer for the Beavers with 20, most of those coming off of a fine pass from one of his teammates, George Papa followed with 17 and Mouts with 16. The last game of the season will have been played by the time this article is published, but the submission deadline prevents the results from being printed immediately. Look for the final Beaver Basketball article in next week's Tech, as the Thursday night game against the C-M-S Stags is rescheduled.

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PASADENA COMPUTER

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Since 1988

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Events and Notices

**Senior Messengers**—This year, students can register messengers in the students' center in the Reg. 9. These messengers will begin appearing at the end of the senior section. If you would like to submit a messenger, you may sign up March 4 from 12:30 to 4:00 in the student mailbox. Forms will also be available in the career center. The registration fee is $3 per line for a size of up to 32 characters.

SURF’s U-pit—SURF applications are now available in the SURF office, 3-37 Beckman Institute. There is also a SURF information and research proposal for students who need help identifying a research proposal. Please call the SURF office at 625-0089 or stop by SURF for more details, which are due March 4.

**Events & Services**

**Holly Party**—Join Brian, Cheryl, and the rest of the 297 South Holliston for a winning evening of food, drinks, music, and people. The event will be the Sunday before March Break for those who are staying on campus.

**The Fourth Annual Tribute to African American History Through the Arts** will begin with an opening reception today from 4:00-7:30 p.m. in Dubney hall. The show will continue on Saturday and Sunday.

The Caltech Y also presents the "Shutter" Drama Group—The History of Black Innovation in Science and Technology, on Friday, February 26 at 12 noon in Beckman Auditorium. This talk will introduce you to the world of African American technological innovators. For more information call the Caltech Y office at 625-1020.

**Glee Club Concert**—The Caltech Men's and Women's Glee Clubs will present concerts, chant, and a reception, Thursday March 4 at 8 p.m. Tickets are $5.00 and available at the Ticket Office.

**Team Build-up**—Join the Caltech Alumni Band for a mandatory practice Monday, February 22 from 8-10 p.m. in Beckman Auditorium. This year's Student Telephone Campaign. Find out what it is all about! New and different, how will you fit in?

Caltech Vols—The Caltech Bicycle Club meets every Thursday at noon in Red Bear Café. The club members are always interested in adding new members, both road riders and trail. You can enjoy the ride, for all skill levels, from novice to advanced. The club meets weekly. If you are interested, please contact Michael Kestler at 622-1867 or e-mail to cyclos@caltech.edu.

Gay/Lesbian/Bisexual support group meets the first and third Sundays of every month at 5:00 p.m. in the Health Center Lounge. This confidential meeting is for all students, both heterosexual and homosexual, who are looking for a supportive and comfortable outlet to which to discuss concerns and concerns about sexual orientation. Referrals are encouraged. For more information, call 363-9331.

A women's psychology group for graduate and undergraduate students, meets every other week on Tuesdays from 1:30-3:00 at the Counseling Center beginning mid-March. The group will maintain a range of issues relevant to

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**The John Gay Job Tasting is offering financial assistance to Canadian and American students.**

The California Tech

**Events and Notices**

For more information call 363-9331.