

Renovation Confrontations

by Josh Kurutz

"They're not your houses," was an expression of the administration's view made by Jim Minges at the first weekly meeting of the Renovation Committee Discussion Group on Friday, November 21. The Director of Business Services was explaining how the students' feelings were weighed among those of the Housing Office, alumni, trustees, maintenance personell, and the administration in house maintenance policy decision-making.

This subset of the Renovation Committee was formed to garner student input about the renovations and new maintenance policies and problems relating to them.

Most of the discussion at the two meetings centered around "decoration" and "improvements" made or proposed by students. The addition of graffiti and murals without administrative approval was the subject of much of the debate.

To establish the position of the members of Blacker House, a vote had been taken that indicated that 31 to 1 house members wanted free graffiti anywhere even if some disapproved of parts of it. "We'd rather have the ability to do graffiti than to have the restriction," according to Ron Goodman.

Administrators at the meeting held a different opinion. "There is no support for any graffiti in any campus house," said Jim Morgan, Vice President for Student Affairs. He also emphasized, "There is considerable support for murals and for artwork generated by students. The administration is undivided about this. We know the difference between graffiti and artwork."

Tom Aldcroft proposed at the November 26th meeting that Blacker House would be satisfied with the concession of two alleys being reserved as "graffiti alleys." Morgan replied, "A negotiating position like that is acceptable, speaking for myself." Morgan reminded the group, "Many people don't understand that (graffiti) isn't destructiveness on your part."

Response from the main com-

mittee might be presented at three o'clock today, when the subcommittee meets again.

The need for and versatility of paintings on canvas was stressed by MOSH Chris Brennen at both meetings. He has continually presented this as an attractive solution to all parties involved.

Divergent Views

The students believed very strongly in several key issues. It was believed that previous years' policies had allowed the liberties the students are requesting now. They felt it crucial that they be permitted to alter the houses they live in to make them more comfortable.

Jeff Greason expressed another widely held view, "All of a sudden, I need permission for everything and if I don't get that permission, it's going to cost me. There are certain things that should be within my sphere."

Dawn Meekhof seconded Greason's opinion, "The freedom of undergrads at Caltech attracted me here. We were not treated like little kids. That's changing, I'm afraid."

"If you think the issue is that you can make any alterations that you choose in your physical environment as an individual or small group, that's changing," asserted Morgan.

The administration, as the owner of the property, considers itself to have the right to, as told by Morgan, "maintain its investment in the houses so that they will not fall apart on the time scale of a few years - so they really will, with adequate maintenance, will be preserved for much longer periods of time."

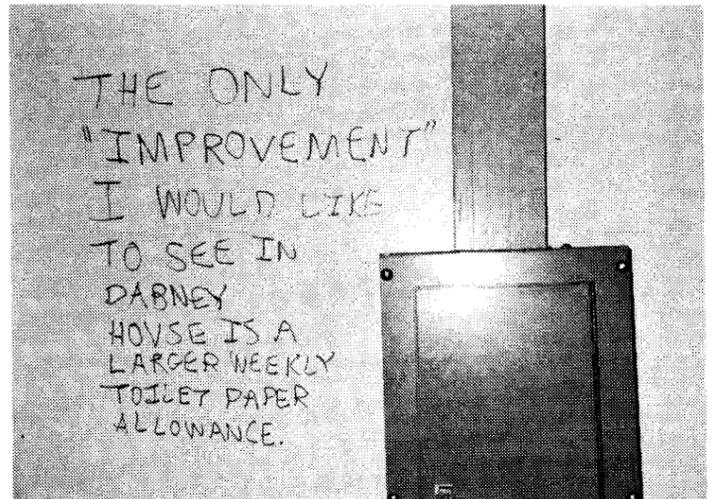
Graffiti Destructive

The administrators attending the meeting disapproved strongly of graffiti because they felt such "damage" could result in the cessation of contributions to maintenance and additional renovation plans, Associate Professor Glen Cass reported. "Believe me, there

are people around here who hold the purse strings who have the attitude, 'Hell, why should we pay another quarter million dollars to improve a paint job if people are going to mess it up in three weeks anyway?'"

Goodman pointed out that many students do not feel that donors should feel like their contributions were not appreciated. "The good things that happened no one doesn't appreciate. Still, despite the good things, that doesn't mean it can't be better," he said.

continued on page 4



Anonymous Dabney Hovse contribution to the renovation debate.

Photo by Glenn Tesler

Goldreich: Ring Around the Planet

by Glenn Tesler

Until ten years ago, the only planet known to have rings was Saturn. Its rings were discovered by Galileo in 1610, and studied intensively during the seventeenth century by Cassini and Huygens. Later, Maxwell correctly hypothesized that its rings are made up of many small particles, and later still, in 1976, it was discovered that Saturn is not the only planet to have rings. In this year's third Watson lecture, Peter Goldreich, Ph.D., discussed what has been discovered about Saturn's rings during since 1610, and the recent discoveries of rings around other planets.

Before the discovery of rings around planets other than Saturn, and before probes were sent to explore any ringed planets, a lot had been discovered about the structure of Saturn's rings. By examining the infrared spectra of light coming from Saturn, it was determined that the primary constituent of the rings was water ice. Radar signals, reflected off the rings and detected here on Earth, were used to determine that the sizes of the particles composing the rings range from a few centimeters to a few meters. It was also known that the particles in the rings orbit at 20 kilometers per second, and take about a half day to complete an orbit.

The presence of rings on other

planets was discovered by accident. Astronomers were examining the occultation (roughly speaking, the change in intensity and other properties of light) of a star as it passed by Uranus when they noticed that there were a few times that the intensity of the light from the star diminished tremendously for a short time. This could be explained by rings around Uranus blocking the star's light. Unlike the wide rings around Saturn, the short periods of low intensity indicated that Uranus has very narrow rings.

Exploration by Voyager has revealed more about the structure of Saturn's rings. During its Saturn flyby it performed an experiment called Radio Occultation Geometry, in which it deliberately allowed Saturn's rings to be situated between itself and Earth. All normal radio communication was cut off, and 3.6 cm and 13.6 cm continuous signals were sent through the rings to Earth. By examining the signals received here, models of the ring structure could be refined. Among other things, it was discovered that each particle in the ring is involved in about one collision per day. The particles closer to Saturn move with higher velocity than those farther away, but since the relative speed of the orbiting particles that collide is about three to four millimeters per second, the particles remain mostly intact. Erosion does occur, but since the bits of ice that chip off in these collisions don't have anywhere to go but right back into the ring, nothing is lost in these collisions.

Goldreich's studies focus on theories that explain the structure of planetary rings. One theory that he and collaborators proposed, which was later verified by data from Voyager, involves what other researchers later named shepherd satellites: some rings are held together by means of a pair of satellites, one on the inside of the ring and one on the outside of the ring, whose gravitational forces on the particles of the ring serve to keep the particles in a ring of roughly constant size.

In 1984, the ring system around Neptune was discovered. Though all the rings around Saturn and Uranus completely circle their respective planets, none of the rings around Neptune form a complete circle; all of them form arcs. One theory that has been proposed to explain this is that all the rings around Neptune have a satellite in their orbit that somehow prevents a full ring from forming. Something of a similar nature has been observed in the orbit of the planet Jupiter; there are asteroids in its orbit 60 degrees away from it in either direction.

Peter Goldreich, the Lee DuBridge Professor of Astrophysics and Planetary Physics, came to Caltech in 1966. He has won many awards, including the California Scientist of the Year in 1981, the Chapman Medal of the Royal Astronomical Society in 1985, and the Dirk Brouwer Award of the Division on Dynamical Astronomy of the American Astronomical Society in 1986.

New Teaching Questionnaires

by Jennifer Low

Students aren't the only ones who will be rated next week. Along with finals, the professors of undergraduate courses will be distributing teaching quality feedback questionnaires. This new program, not to be confused with the student-run TQFR, is an attempt by the administration to improve teaching quality in undergraduate courses.

A suggestion for a full-scale attempt to improve the quality of teaching came up last spring during the semi-annual student-faculty conference. Caltech's Provost, Dr. Robbie Vogt, adopted the idea by the end of spring.

The two main proposals are installing ombudsperson-type communication between students and professors and providing students a way to evaluate a course and receive almost immediate response and redress.

The questionnaires the students fill out next week will be read by department and executive chairmen and the provost. Individual professors will each be consulted and

informed of the comments and ratings he or she received.

Since it is the department chairmen that decide on course assignments and salaries in their department, these reports will be taken seriously by the administration and faculty. All that is left is student participation and enthusiasm.

However, as Vogt points out, "It is crucial that students participate. We are... serious about this and mean business."

"I'd like to see a 90% and above response rate," adds Gary Lorden, Dean of Students. Obviously a high response rate will make the statistics that are compiled more reliable and difficult to ignore.

As of yet, though, it seems that only the administration and faculty members will find what opinions were expressed on these questionnaires. Vogt does not want the information to become public because of the undue humiliation it may bring upon some professors, one of the complaints about the TQFR. Lorden believes there will be more discussion on this matter.

For some departments this will be very little change from what they have already been doing. The Humanities Department already hands out questionnaires and the Biology and Chemistry Departments are familiar with the ombudsperson system. This year, however, is the first year the school has tried to make a uniform and widespread evaluation of its quality of education.

A teaching manual, "principally useful to new instructors," says Lorden, is also in the making. This guidebook mentions essentials like when and how much homework to assign to students, among other useful hints. Vogt and Lorden hope this guide will be useful to older professors as well as new T.A.'s.

Vogt's primary concern is with undergraduates because they spend much more time in the classroom than graduate students.

The enthusiasm about this project is obvious in talking to the Deans and to Vogt. Says Vogt, "I think this will solve more than half the problems we have now with teaching."

Football To Play Cops: Child's Play For Beavers

by Amanda Heaton

Caltech's almost-undefeated football team moves on to what could be the most fun, if least serious, game of the year. This Saturday at eleven, the team will play the Pasadena police force in the second annual "Tournament for Tots."

"The price of admission, which is optional, is a wrapped toy," Chris Brennan, the Master of Student Houses, said. "It's a charity kind of thing that we and the police organize. The presents go into a collection and are distributed to needy children."

In addition to the humanitarian part of the contest, the participants enjoy the camaraderie of the game.

"There've been a surprising number of motorcycle policemen at the practices, so there's been some

talk of spies," Brennan said. "And last year there was a considerable amount of joking back and forth about meeting after the game for the bonfire."

The team has been embroiled in practice, hoping to maintain their undefeated record.

"We won it last year," Brennan said. "The police practice maybe once or twice. They're usually bigger, but quite a bit less organized. It was a fun and fairly competitive game last year."

The game will take place at the Caltech field. Spectators are encouraged to come, especially bringing gifts.

"I particularly like to see a large number of students there, not only to cheer on our successful football team, but also to contribute to this cause," Brennan said.

LETTERS

Truth Distorted

To the Editors:

I write in response to Amin Abid and Khuram Afridi's letter concerning my article about the proposed sale of AWACS (Airborne Warning and Control Systems) to Pakistan. However, before I say anything, let me at the outset thank them for unwittingly acknowledging that the article was a "paragon in the skillful use of language." But their assumption that the article was a distortion of the truth, is incorrect.

Mr. Abid and Mr. Afridi maintain that my description of Pakistan and India as "two mutually suspicious governments" is incorrect. The truth of my statement should however be patent to anyone even vaguely familiar with Indo-Pak politics. Further, they qualify their stand by saying that "Pakistan's government has made a very solemn effort to normalize relations..." Firstly, even if this is true, it does not imply that Pakistan is not suspicious of India. Secondly, by saying this, Mr. Abid and Mr. Afridi are falling victim to the very vice they accuse me of—exaggerated use of language to distort the truth. They err similarly yet again by saying, "Pakistan's inventory of armaments is insignifi-

cant." This statement can be refuted by simply considering the size of the U.S. military aid (in sophisticated arms) to Pakistan.

Further, their imputation that I suggested that the sale of AWACS would "improve Pakistan's offensive capability" is not a distortion, but a lie! I had simply quoted a statement of the Indian government and the phrase was void of any insinuation from my side. In fact, I cannot deny their statement that the AWACS are largely defense-oriented, but then again they should address this not to me but the Indian government!

Also, I feel that their mighty, two-pronged attack on my one word "innocuous" was belabored, perhaps due to their misinterpretation of what I meant. In fact, it was hard for me to believe that they drew fleeting conclusions about my lack of culture, sensitivity or even humanity based just on my use of the harmless word "innocuous." In the context of the passage, my use of this hitherto mild word, was simply to indicate that the incursions and bombings and strafings (by Afghan planes) were not as severe as they were made out to be. The very fact that one does not hear any concrete statistics about these incidents makes one wonder how destructive they really are. However, I concede that perhaps a milder word would be better

sued to the passage.

We, in the Outside World, try to achieve a balance between expressing fact and opinions. In this case, Mr. Amin and Mr. Afridi perhaps misconstrued my article, failing to distinguish fact from opinion, or possibly distorted the truth of what I said to justify their point.

Which, I cannot say. Anyway, I hope that these lines will unequivocally put my article in the right light.

—Maneesh Jain

Visual Noise

To the Editors,

Sometimes when you're quietly looking the other way, doing your homework or whatever, some funny things happen on this campus and catch you by surprise. This year it was renovations. Some delightful new kitchens, a new laundry room and some glorious baby blue walls—and that's where the controversy is set in. Much to our surprise, the administration is dead set against our painting on these baby blue walls without asking their permission (on paper) first. We must pass the MOSH's judgement on their aesthetic value first. Approved murals only. Isn't that good enough?

Not at all. The spontaneous graffiti that the administration deplores has been a cherished part of the south houses for years now. In Blacker, graffiti was mostly confined to the alleys of Tunnel and Cannes. It was great fun to be in Tunnel when alumni came by, because often they could tell you the story behind a picture on the wall. I never did hear any good stories about, "Then I waited till Monday, presented the MOSH with a sketch of the mural for approval..." Murals just don't make for house history. Murals aren't folk art.

Beige walls have a few stories, too. When Tricia Stodard, an ex-president of Blacker, was told about the problems we were having, (e.g. physical plant would paint over our graffiti and charge us for "fixing" the "vandalism") she told me about the visit of Jules Feiffer, a Pulitzer prize winning cartoonist. He was shown Tunnel, thought it was cool, and drew a cartoon on the wall. Everyone was quite pleased having an official Feiffer on the wall, so they were pretty disappointed when, one summer, the housing office painted over Tunnel without warning.

One of the special things I quickly discovered about Caltech was the freedom and responsibility given undergraduates. This is in the honor system and it used to also be in the control we were given over our houses. I noticed that my friends at other colleges lived in dorms that looked no better than cheap hotels, whereas at Tech we were able to put up skybeds and decorate our Hovse as we saw fit. It's part of what made the house system better than dorms. I hope this doesn't fade into the past.

Our complaints (and disobediences) have led to the Renovations Committee Discussion Group that meets on Friday afternoons at 3PM in the Millikan Boardroom. The painting policy has been a major point of dissent at these meetings. We've argued that paint isn't damage: we don't want to tear up the walls, hurt the plumbing or change any of the improvements of the renovations. But, as Professor Glenn Cass told us at the last meeting, "Graffiti demoralizes." Apparently the Administration feels that if we are allowed to paint on the walls, this will lead to a "visual noise." People will then forget how nice the houses once looked, and begin to vandalize. Apparently they don't believe undergrads can make that distinction.

Renovating the South Houses is an honorable goal. These are beautiful buildings, and should serve many more generations of students to come. The motives of preservation and personalization are not in direct conflict here. I hope that those in power in this matter will put some more weight on what the students who live in those houses want from renovations.

I encourage anyone who is interested in these issues to come to the meetings. It is very easy to let changes like this go by, to be resigned to the power of the administration, or to just be too busy doing homework to get involved.

Then again, if you like living in a hotel, you're all set.

—Dawn M. Meekhof
Blacker Hovse

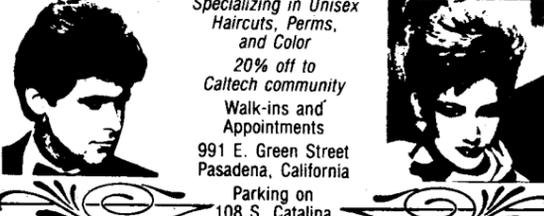
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FEATURES

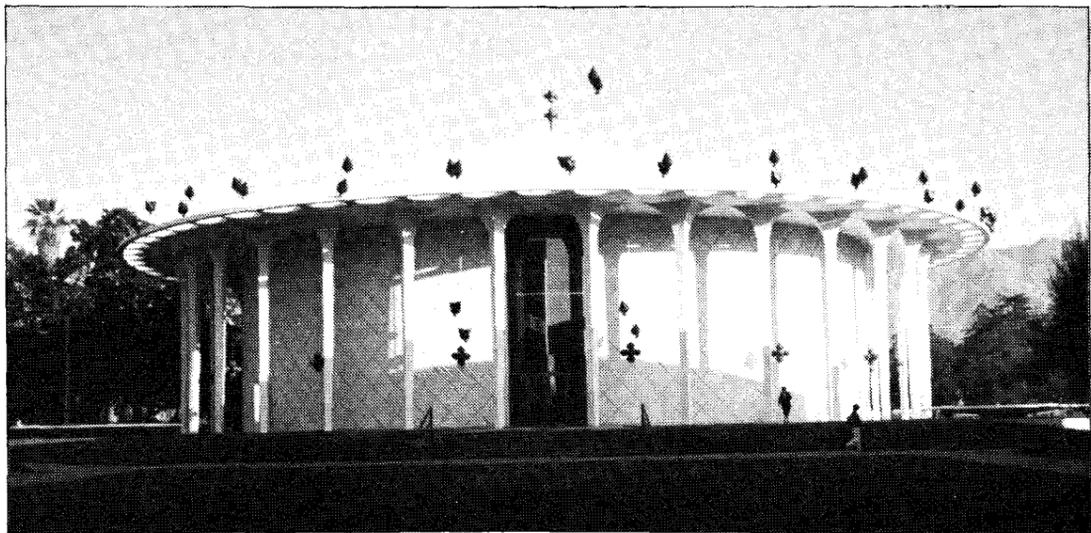


photo by Glenn Tesler

Frosh Fail: Beckman Blow-out

by Glenn Tesler

A group of wayward Frosh, who in a communication to the *California Tech's* Pasadena offices identified themselves as the Beckman 6, unsuccessfully attempted to fly away from the roof of Beckman Auditorium in a last ditch attempt to earn extra credit in their Phys 1a Recitation sections.

A ring of seventy helium filled garbage bags ("balloons") was placed around the auditorium early on the morning of December 3, apparently in expectation of the

Watson lecture that evening on planetary rings. The balloons were placed in pairs through adjacent holes along the perimeter of the roof and key points underneath the roof.

Though this was the first reported sighting of a ringed building in Caltech history, the ring did not last long. By lunchtime, about half the balloons were gone, and more disappeared as the day progressed. By the end of the Watson lecture, the only significant cluster of balloons left was a group

of five situated over the main entrance of the auditorium.

The Frosh, who would not identify the individuals in their group, apparently are all in danger of failing Phys 1a, and hoped that by demonstrating their knowledge of the content of the course by a means other than the homework or tests, they could convince their T.A.'s to alter the grading scheme of the class. Now that their attempt has failed, however, their only hope left is to pull off an even better stunt before finals week.

Survival: Chem-Book Cookery?

by Glenn Tesler

It's 4:30PM on a Saturday afternoon, and hundreds of Techers are waking up, hungry after their only ten-hour sleep of the week. The first thought on their minds is "food!" and the second is "I just can't get enough of that B.C. food during the week," so they all run down to Burger Continental.

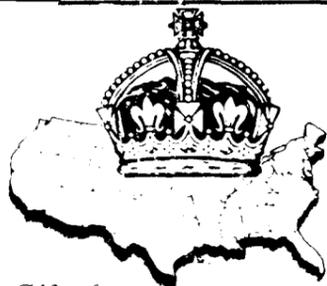
For ten undergrads who attended the Caltech Y's cooking class, "A class in weekend survival," this scene will no longer occur. Taught by Pat Robb of the Red Door Café, this class included demonstrations in preparing everything from pre-packaged Rice a Roni to Taco Chicken Wings. All the foods were designed to be prepared in a microwave, Robb's favorite cooking tool, in which things "don't

burn [and] don't stick."

Students were given a sheet with directions for preparation of each dish. To the new cooking student, these directions may have appeared reminiscent of a Chem 3a lab manual, without the prelab questions. But unlike Chem 3a, cooking does not require one to be meticulous: as Robb demonstrated eyeballing measurements, she said "You don't have to be too precise; sometimes it comes out better when you're off." There is no danger of contaminating reagents; chocolate chips spilled during the preparation of Rocky Road were thrown right back into the mixing bowl. There's great flexibility in the apparatus that may be used; though crushing the Doritos used to coat the Taco Chicken Wings should have been

done with a rolling pin, poor Caltech students, and those new to the world of cooking in particular, would probably not own a rolling pin, so Robb demonstrated how to crush chips with a hardcover textbook. No error analysis is necessary, but those students venturesome enough to cook for other people will quickly learn not to make errors in the first place.

A poll taken at the end of the class indicated that all the students would be interested in a follow-up class that would include more than just what was necessary for weekend survival. Some of the topics that may be included in future classes are preparation of pasta and pies, and how to choose fresh produce and other articles at the supermarket. For more information, contact the Caltech Y.



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The Inside World

Blacker: *A Modern Fairy Tale (as told by Sue R.)*

Once upon a time, there lived a bright boy named Scott, who went to Caltech. He had two kids named Lushalan and Alex. Scott was very smart, but he was also very bad, and he beat up his kids every day and always made them do his physics homework. Finally Lushalan and Alex ran away from Caltech. They walked for a long time, and finally reached a place called BC. Since they were hungry they went in and ate lunch, but they thought the food was yucky and said, "This is as bad as the food Dad gives us." Lushalan and Alex both got stomach-aches and called Scott to take them home. Scott beat them up again and made them do his EE project, so the two abused children ran away again. This time they ran all the way to a building called Bridge. Inside they found Professor Cowan. Dr. Cowan didn't like Scott at all, and he took Lushalan and Alex home with him, where they all lived happily ever after and never had to do physics homework again (now you know that this is only a fairy tale).

-Arex

Fleming: Fleming Hovse has been losing soccer games like a maniac lately. It looks like what we need is a paramedic or two on the field to administer the Heimlich Maneuver so that all of the choking that goes on out there does not cause instant death. Oh well, maybe discobolus is not completely out of sight.

Now that Eddie "My Main Man" Murphy has finally skedaddled, those of us who live on the courtyard can finally get some sleep. Or at least could have gotten some sleep if the temporary 24-hour around the clock set building had not been almost immediately replaced by the permanent 24-hour drilling of the foundations.

The UCC pick will be next week, along with a room pick, or so one would imagine, assuming the power-fattened, terminal Senioritic Officers can get off of their fat asses and accomplish one of their last duties before elections roll around.

Around about Interhouse time, Steve Gómez personally informed me that the Moles could wipe our fannies in Ultimate (frisbee, that is) any day of the week, and twice on Sundays. After drying the tears of mirth from my eyes, an ugly thought occurred to me: he might have actually been serious. Imagine that! Oh well, any time Mr. Gómez feels like it, we'd all be happy to adjust his opinion.

Vegas is awesome this time of year.
Snake, Frosh! Finals are coming.
Ditch Day is tomorrow.
Until next week...

-Al Fansome

Lloyd: Well, it's that time of year again! Do your shopping early at the Lloyd Bookstore, with sale prices on over 18,000 books. These are just a few of the fine selections available:

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Includes advanced techniques such as the "French Inhale."

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Complete instruction on learning any bass part in five minutes, plus anecdotes on the author's experiences in teaching bassist Geddy Lee as a novice.

Bitches, Ah! by Doug Cheney

The frightening autobiography of the Mail Order Bride mogul.

Living With the Image by Kurt Hargenbarger

Hardcover: \$4.95.

Dinner Etiquette by Bassem Mora

Tips on which wines to spill with which entrées.

Unsafe at Any Speed by Lev Nayvelt

How to make even short trips into a real adventure.

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A nostalgic look back to a long-haired carefree time.

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Includes tips on how to make your pentagrams more regular.

Supplies are limited, so hurry on down!

Now back to reality for a moment...

Don't forget the paper airplane contest/picnic on Saturday, and sign up for the ski trip! Get psyched for swimming; remember, Habas sink like a rock. Drink of the week is "Neon Soup." I part each of Midori, Rum, Mountain Dew and Sweet and Sour Mix. Serve over ice. We were going to call it "Chernobyl Fizz," but we decided it was a bit too tasteless.

-Jethro, Skeeter & Enos

Ricketts: It's Drop Day! This means that its the time of year when all your professors are snowing you by pulling "conclusions" out of thin air, all of your homework is coming due for real now, and it's nearly Finals so you're beginning to feel sick. Don't despair! (Well, maybe you ought to despair a little, after all, they frown on dropping to 24 units.) Anyway, there is life after Finals, as well as little spurts of it now.

For one thing, tomorrow is my birthday. I can tell you I'm going to party this weekend—homework or no homework. For another thing, when people are under pressure their personalities squeeze out the edges. For instance, Cookie and David Lee had a duel to the "death" with red whiteboard markers. Tripod managed to skin most of his knuckles on the punching bag. Amanda hasn't taken her skates off in weeks [No! It's not true! I took them off at least once, uh, I think, a week ago?—AAH]. Charles Budney has been going to classes and Gonzo's been doing homework. Will wonders never cease?

Let off some steam this weekend, and then for a change of pace, absorb a bit of high class and go to the Glee Club Concert.

Until next time...

-Shithead #1 and Giggles

Ruddock: Yes, we're all happy here in Ruddock. There haven't been any alley challenges in weeks and Wayne doesn't remember the standings anyway.

We still have discobolus (cross-country vs Dabney sometime...) but where are our shirts? Ed Impressive Mao says that if you can dive, you can swim, so you will dive and you will swim.

Inquiring minds want the answer to this week's big question: Who is going to wear the super deluxe Santa Claus suit in the Alley 4 storeroom? Biff... Gary... someone else? Find out Friday at the Christmas party.

Decorate your doors for the RA's n'th annual Christmas door decorating contest.

And now for a new addition to the Ruddock Inside World: The Ruddock List of the Week:

Why Beers Are Better Than LI* House**

- ① It's harder to shower a beer.
- ② Beers can't be found in the computer room.
- ③ Beer is ready to party when you are.
- ④ Two beers are better than one.
- ⑤ I like beer.

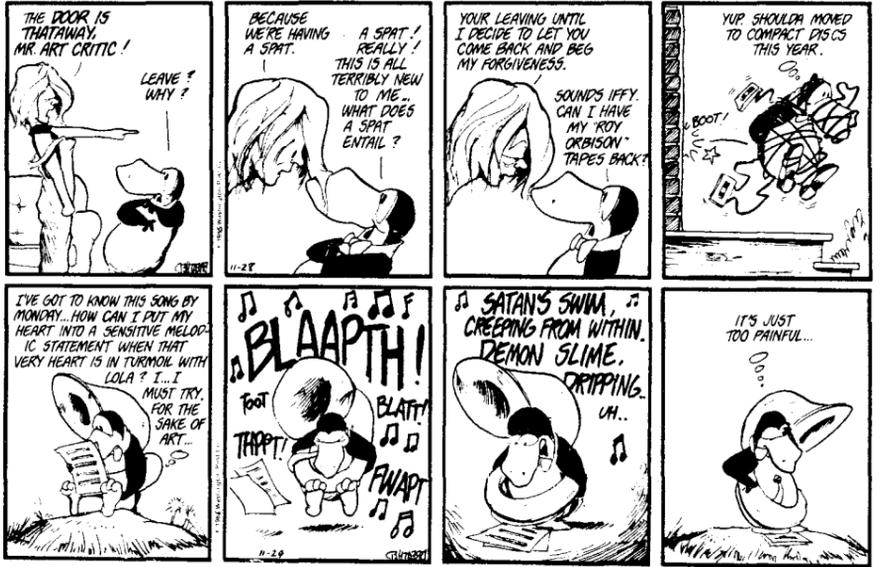
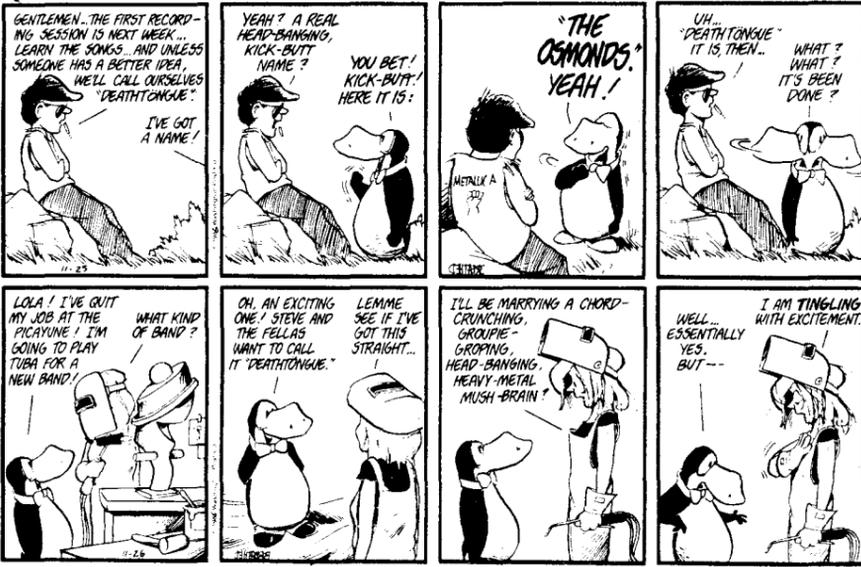
Mug Sign-ups are up so sign up!

-BETSY THE, B. the, Bets the, Betty the, Barney The, Buford the, Benny the, Bessie the, FROSH.





Bloom County by Berke Br



Renovation Confrontations

from page 1

Cass also pointed out the possibility of linked effects that could stem from graffiti. "Eventually, there gets to be such a high level of visual noise in the system that pretty soon you start not noticing that the wiring is hanging out of the walls, (and other assorted damages and safety hazards).

"The people who are doing the maintenance get demoralized. They don't know what's out of place and what isn't, so they don't fix anything. Pretty soon, you have not just a bunch of visual clutter, but you have a lot of real, downright safety hazards on your hands."

The students did not seem to

think this was a valid argument because they did not believe there were any links between the cause, graffiti, and the effect, decay of the houses.

Problems and Suggestions

The painting of alley walls colors different than those currently existing was an issue that came up briefly during the first meeting. David Nice of Ricketts House complained that he had been, "bounced around between the MOSH and the Housing Office," when he tried to get approval for the painting of his alley.

Brennen responded, "I

apologize. We weren't all clear as to how this process was going to work."

Bibi Jentoft-Nilsen voiced the impression that most students seemed to have, "In the past, the reason we went to the Housing Office when we wanted to paint an alley was because they would pay for the paint."

The MOSH corrected this idea. "That's not true. You were always supposed to get approval."

The issue of alley repainting grew in importance since it became apparent that much of the renovation paint job was substandard. Castor Fu brought in a handful of paint that had peeled from a wall

in Blacker. He and many others brought up examples of damage due to poor quality painting.

"Physical plant or their contractors should make good on painting that was not correctly done," was the response from Morgan.

Dealing with unreasonable charges billed to the houses was also a point discussed at the meeting. It was stressed by the administrators and the members of Ricketts House that a house member must accompany the inspection party on their tour to prevent such charges.

Members of Ricketts and Blacker now accompany the group when they look through their

respective houses.

It was also proposed that the period between inspections be lengthened to allow the houses to repair some of the damage themselves and alleviate the impression that there were eyes constantly looking over the students' shoulders. Morgan said, "The shorter the interval, the better we feel." He also said that the administration would examine the idea.

The subcommittee meets, with a few exceptions, every Friday at 3:00 in the Millikan Boardroom. (This includes today!)

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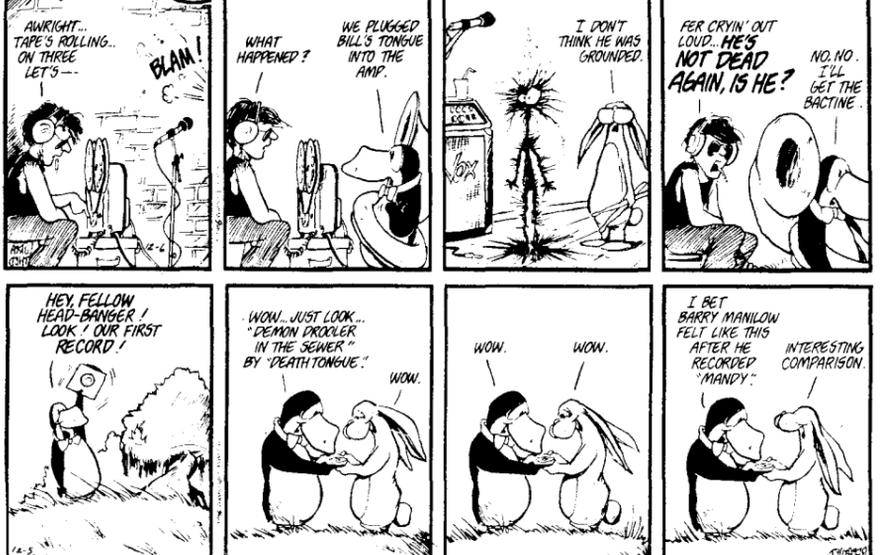
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The Outside World

SALT II Treaty Breached by U.S.

by Hasok Chang
 The United States has formally reversed its policy of adhering to the SALT II Treaty. The U.S. nuclear forces last week exceeded the maximum number of strategic delivery vehicles (ICBM's, bombers, etc.) allowed by SALT II, by their deployment of the 131st bomber equipped to carry the cruise missile. Both superpowers have been abiding by the treaty since it was signed in 1979 although it was never ratified by the U.S. Senate. However, the Reagan Administration has been accusing the Soviets of subtly violating the treaty.

There are two main lines of objection to this action. Some, such as Congressmen Les Aspin and Sam Nunn, worry that scrapping SALT II will give the Soviets an excuse to expand their arsenal very rapidly. They argue that the Soviets are more ready to produce a large quantity of weapons than the U.S. Others think that the recent action will complicate dealings with the Soviets. There are already signs of Soviet frustration, such as their recent declaration to resume nuclear testing unless the U.S. join the moratorium by 1987. The American renouncement of SALT II may worsen their attitude further.

Soviets Ahead In Strategic Defense

by Huy Cao
 Jane's Weapon Systems, a British military publication, reports that the Soviet Union is ahead of the U.S. in "Star Wars" research. According to its editor Bernard Blake, the Soviet Union has the world's only anti-satellite system and is now building a new, more accurate radar network. Blake also reports that Moscow has an extensive laser program employing 10,000 scientists and engineers.

Robert Gates, the CIA's second-in-command, estimates that over the last 10 years the Soviets have spent nearly \$150 billion on strategic defense, or about 15 times what the United States has spent. In addition to anti-ballistic missiles, Gates said, the Soviets have pursued advanced technologies for strategic defense, including laser technology.

Gates also says that to "preserve the Soviet monopoly in defense against ballistic missiles," the Soviets are currently waging an intense propaganda campaign to dissuade the United States from pursuing its own strategic defense.

Claims and Counter-Claims

by Hasok Chang
 The Iran arms scandal reached crisis dimensions when it was discovered that millions of dollars of the profit made by selling arms to Iran was diverted to the contras in Nicaragua. Congress is strongly demanding the clarification of all matters. Major questions remain to be answered. President Reagan has said that Colonel Oliver North was the only official with full knowledge of the diversion of funds. However, members of the Senate Intelligence Committee expressed a strong suspicion that many top officials knew about the matter, after hearing the 7-hour testimony by the former National Security Advisor Robert McFarlane. The President also said that "another country", obviously referring to Israel, was responsible for "funneling money" to the contras. Israel has denied the charge repeatedly.

East German Would-Be Defector Shot

by Huy Cao
 East German guards shot over 30 rounds with submachine-guns to kill a man trying to jump the Berlin Wall. West Germany and other Western governments have noted that the action shows contempt for human life. The shooting is the latest of over a hundred and marks a new phase in the use of weapons at the wall.



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WHAT GOES ON

from page 8

Research Associateships

The National Research Council announces the 1987 Resident, Cooperative, and Postdoctoral Research Associateship Programs for research in the sciences and engineering to be conducted in behalf of 26 federal agencies or research institutions, whose laboratories are located throughout the U.S.

Approximately 450 new full-time associateships will be awarded on a competitive basis in 1987 for research in the sciences and engineering. Most of the programs are open to both U.S. and non-U.S. nationals, and to both recent Ph.D. degree recipients and senior investigators.

Awards are made for one or two years; senior applicants who have held the doctorate at least five years may request shorter tenure. Stipends for the 1987 program will begin at \$26,350 a year for recent Ph.D.s and be appropriately higher for senior Associates. A stipend supplement of approximately \$5,000 may be available to regular (not senior) awardees holding recognized doctoral degrees in those disciplines wherein the number of degrees conferred by U.S. graduate schools is significantly below the current demand.

Applications to the National Research Council must be postmarked no later than January 15, 1987 (December 15, 1986 for NASA), April 15 and August 15, 1987. Initial awards will be announced in March and April (July and November for the two later competitions) followed by awards to alternates later.

Information on specific research opportunities and federal laboratories, as well as application materials, may be obtained from: the Associateship Programs, Office of Scientific and Engineering Personnel, JH 608-D1, National Research Council, 2101 Constitution Ave., N.W., Washington, D.C. 20418. Phone (202) 334-2760.

Soroptomist Fellowship

The Soroptomist International of Los Angeles is offering a \$3,000 fellowship to an outstanding woman graduate student for 1987-88. To apply you must be a U.S. citizen and a California resident. Consideration is given to the student's potential contribution to society. Field of study is open. The Financial Aid Office (12-63) has more info. Deadline is February 15, 1987.

Korean Scholarships

The Korean American Scholarship Foundation is offering scholarships for 1987-88. To qualify you must be a full-time student of Korean American heritage. Scholarships average \$1,000 per student. Deadline is 31 January 1987. TO receive an application write to:

Scholarship Committee
Western Region Office
Korean American Scholarship
Foundation
Box 3388, Santa Ana, CA 92703

Excellent Juniors?

For the second year in a row, *Time* magazine is initiating a nationwide search for 100 college juniors who excel in academics and extra-curricular activities. Called the TIME College Achievement Awards, the selections are a recognition of the nation's most outstanding college students.

Twenty winners will receive awards of \$2,500 each and their achievements will be showcased in a special promotional section of the April 6, 1987 campus edition of *Time*. Eighty merit finalists will receive \$250 each and honorable mention in the section. All 100 winners will be given first consideration for internships with Time, Inc. and other major participating corporations.

The 1986 *Time* College Achievement applications will be reviewed by a panel of regional judges under the auspices of *Time* magazine. In addition to academic excellence, the judges will consider exceptional achievement outside the classroom in such categories as community service, student government, journalism, entrepreneurship, visual arts, athletics, and the performing arts.

To qualify for the Awards, student candidates must be juniors enrolled full time in an accredited four-year American college or university. The deadline for the completed application is December 31, 1986. Winners and finalists will be notified by mail on or before March 31, 1987.

Applications are available at the Deans' Office or by calling 1-800-523-5948.

Wise Internships

WISE, Washington Internships for Students of Engineering, is looking for a few good third-year engineering students. Students will study the roles of engineers at government hearings, as staff members of legislative and regulatory bodies, as lobbyists, as members of corporate staffs interacting with governmental agencies, and as representatives of professional engineering societies, standards setting organizations, or public interest groups.

In addition, each student will complete a project that will document a specific engineering-public policy issue, address topics of concern to the participating societies, and/or form the basis for technical papers and case studies to be disseminated by the sponsoring societies. There is a stipend and a travel allowance.

For application forms, write to:

WISE
American Society for Engineering
Education
Eleven Dupont Circle
Washington, D.C. 20036.
Application Deadline, December 31, 1986.

CIC Fellowships

The Committee on Institutional Cooperation Minorities Fellowship Program is offering 40 fellowships to members of under-represented minority groups seeking PhD degrees in a wide variety of fields in the areas of Social Sciences, Humanities, Sciences, Mathematics and Engineering. The member universities are the midwestern Big 10 plus the University of Chicago. (If you don't know who's in the Big 10, find a sports section—this is football season).

Each CIC Minorities Fellowship is for four academic years. For 1987-88, each award will pay full tuition plus a stipend of at least \$7,000. The eligibility is kind of complicated, so contact them as early as possible. Application deadline is January 7, 1987. Write: CIC Minorities Fellowships Program, Kirkwood Hall 111, Indiana University, Bloomington, IN 47405, or call toll free (between 6 am and 1 pm Pacific time) (800) 457-4420.

SWE Scholarship

Women majoring in engineering are eligible to apply for the 1987-88 Society of Women Engineers Scholarship. Applicants must have an overall grade average of 3.5 or better. Scholarship amounts vary from \$250 to \$2,500. Applications are available from the Financial Aid Office, 12-63. Deadline is February 1, 1987.

Naval Scholarship

The American Society of Naval Engineers is offering a \$1,750 scholarship for 1987-88. To apply you must be a full-time student in your junior or senior year, a U.S. citizen, interested in a career in Naval Engineering. Information available from the Financial Aid Office, 12-63. All application material must be received at ASNE Headquarters by 15 February, 1987.

Bok Fellowship For Ph.D.s

Recent or almost Ph.D.s take note: a fellowship is being offered in Astronomy and Astrophysics at Steward Observatory, University of Arizona. The designated fellow will receive a stipend of \$24,000 per year, commencing in September, 1987, and the designation is normally for a two-year period of research. There is also a small research fund, as well as a small transportation allowance. Applicants should submit a brief resumé of proposed research as well as a personal resume and references. For more information, contact: Director's Office, Bok Fellowship Committee, Steward Observatory, University of Arizona, Tucson, AZ 85721.

SAM/PE Money

Engineering, physics, chemistry, and metallurgy students studying materials and processes are eligible to apply for the Society for the Advancement of Material/Process Engineering \$1000 scholarship for 1987. Applicants must be full-time undergraduate students. Application forms and information are available in the Financial Aid Office, 515 S. Wilson. Deadline is February 1, 1987.

Scholarships For the Blind

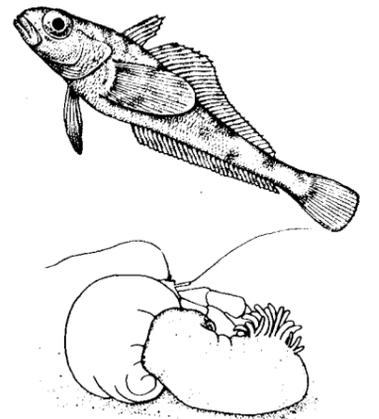
The National Federation for the Blind has six scholarship programs available for 1987-88. Applicants must be legally blind. Scholarships are awarded on the basis of academic excellence, service to the community, and financial need. For more information contact the Financial Aid Office, 12-63. Deadline is March 31, 1987.

No Food During Finals

The Caltech Coffeehouse will be closed for London Ski Season from Saturday, December 13 until the start of next term. Last orders will be taken on Friday the 13-14th until 1PM.

Gay/Lesbian Discussion Group

The topic for next week's Gay and Lesbian Discussion Group meeting will be "dealing with your lover after you've broken up" and other related issues. The group will meet (in Bruce's lamented absence) on Tuesday, December 9 in the Young Health Center Lounge from 7:30-9:30 p.m. The Discussion Group is open to all members of the Caltech community who have an interest, from whatever perspective, in gay and lesbian issues.



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BY THE WAY, IF YOU HAVEN'T BEEN IN LATELY, OUR STORE DOES LOOK QUITE DIFFERENT. HOWEVER, BAREFEET (FOR THOSE SO INCLINED) IS STILL ALLOWED!!!

UNTIL NEXT WEEK...

GNP HOURS: M-F 10-8 S/S 10-6

CALTECH
public events

GLEE CLUBS' ANNUAL HOLIDAY SHOW THIS WEEKEND

Kick off the holiday season with the Men's and Women's Glee Clubs. They will perform in concert tonight and Saturday at 8 p.m. and Sunday at 3 p.m. in Dabney Lounge.

Featured in the first half of the program will be the combined voices of the Caltech Men's and Women's Glee Clubs in Vivaldi's "Gloria." The second half will feature the Glee Club's performing separately and the Caltech Chamber Singers singing traditional songs of Christmas and Hanukkah.

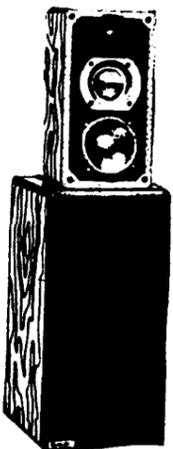
The Men's Glee Club is under the direction of Donald Caldwell; Monica Hubbard directs the Women's Glee Club.

Tickets to the Glee Clubs' Holiday Show are priced at \$5.00; students \$2.00.

You can hear even more holiday music next weekend when the New Christy Minstrels come to Beckman Auditorium, Friday, December 12 at 8 p.m. This renowned group will sing your holiday favorites in their own inimitable style.

CIT student prices are \$8.75-7.50-6.25; CIT faculty and staff prices are \$15.50-13.00-10.50 for advance sales and TECHTIX - half price tickets for \$8.75-7.50-6.25 - on Friday, December 12, between noon and 4:30 p.m. (Limit 2 tickets per CIT I.D.)

For further information about the exciting Public Events scheduled this season, call campus ext. 4652.



SPORTS

Football Streak Ends in Vic'ville

by Bat Masterson

Tomorrow the Battlin' Beavers football team will finish their season at home in their annual bowl game against the Pasadena Police Officers Association. The Beavers are coming off their first loss in 21 games.

Two weeks ago the team traveled to Victorville to play the skillful Victor Valley J.C. Rams. The Rams are a highly organized junior college team coached by Gene Toshima, a former Caltech coach.

The Beavers returned with a 24-6 loss but with heads held up and eyes on a new era of Caltech football. The players took it hard, but they also took it as part of the road to improvement. Said one astute linebacker, "You can't get better if you don't play better teams."

Indeed the Rams were a tougher, more organized team than most of Tech's opponents, and the Battlin' Beavers should be proud of the strides they have made toward becoming a better football team.

The Beavers pounced on their opponents early and appeared to have things going their way when

the Rams fumbled on their first possession. But the Rams' defense was very tough and would not give ground as easily as some of Tech's less organized opponents. The Beavers punted away and the Rams scored on their next offensive drive.

The Battlers were not shut down yet, and QB Martin Brouillette passed to freshman All-American Dwight Berg for a touchdown on their next drive. It was Berg's first touchdown of the year and would be the Beavers' only score of the day. The score at halftime was a close 14-6.

After the half however, it was apparent that the Caltech squad had suffered some devastating losses. Brouillette was moved to fullback because of an arm injury that prevented him from doing his job at quarterback. Steve Roskowski, Tech's number-three man at signal calling backed him up at QB, as the injured Steve '29-er' Collins remained on the disabled list. Though the Beaver Dam Defense played a solid second half, the offense never got back on track. The final score

was 24-6.

Early in the third quarter it appeared that the Beavers would jump back into the game, led by a magnificent play by offensive Guard Raoul Turcios. The Beavers were threatening to score from inside the Rams' 20 when a Tech pass was intercepted on the one yard line. But the careless Ram couldn't find the handle and fumbled the ball away. Turcios instinctively rolled off his pass block, scooped up the loose ball, and took it in for the TD. The play was subsequently called back for a penalty, but Turcios' effort sparked the team.

Tomorrow's game begins at 11:00AM at the Caltech Fox Stanton Memorial Track and Field football stadium. The charity game will benefit children in Pasadena and admission to the game is one unwrapped toy (value \$5.00 or more). It would be a fine exhibition of Caltech generosity if members of both the faculty and the student body were in attendance of this worthy cause. Freshmen attendance is mandatory; no excuses will be accepted.

New Facilities

Stanton Track and Field Dedication Set For Today

[CNB]—The Fox Stanton Track and Field, a new all-weather track and field facility, will be dedicated today at 11:30AM by Caltech officials and members of the board of directors of the Lon V. Smith Foundation. Caltech President Marvin L. Goldberger will officiate at the ceremony on the athletic fields south of the Scott Brown Gymnasium.

The new track is named in honor of the late W. L. "Fox" Stanton, Caltech's athletic director from 1921 to 1942.

During his 21 years at Caltech, Fox Stanton coached football and track, leading the Institute's football team to championships in the Southern California Conference in 1930 and 1931. In 1923 the team tied for the championship, with Pomona College.

When Coach Stanton retired in 1942, a writer for The California Tech wrote of his career: "In a school which does not pick men for athletic ability, he has formed championship teams. In a school

where no credit is given for athletic work, where it must be carried entirely in addition to regular studies, he has developed outstanding football material."

The new Fox Stanton Track features a rubberized surface and two new sprinting lanes. The irrigation and drainage system for the track area has been improved, and new runways were created for the long jump, pole vault, steeple chase, and discus throw—all of which have been relocated to accommodate new contours of the track.

The \$450,000 in funding from the Lon V. Smith Foundation was provided with the support of Foundation board member W. Layton Stanton, who is the son of Fox Stanton and a Caltech alumnus. Dr. Layton Stanton received his B.S. in 1927 and his Ph.D. in 1931, both from Caltech. Since 1984, he has been a member of The Caltech Associates, a major Institute support group.

WEEKLY SPORTS CALENDAR

Day	Date	Time	Sport	Opponent	Location
Fri.	12-5	TBA	Basketball	Washington U. Tournament	St. Louis
Sat.	12-6	TBA	Basketball	Washington U. Tournament	St. Louis
Sat.	12-6	11:00PM	Football	Pasadena Police	Caltech
Wed.	12-10	7:30PM	Basketball	Life College	Caltech
Wed.	12-10	9:45PM	Ice Hockey	UCLA	Pasadena Ice Center

Caltech Hockey Team Get Iced Over Again

by Jason

The past few weeks have been busy for the hockey team. First we played Cal State Fullerton, a division I team. As expected the game was rather lopsided, with the only highlight for the Beavers being their play during the last two periods. Mike Freeman scored twice, but Fullerton prevailed 12-2.

Caltech played Cal State Northridge the Sunday before the Thanksgiving break. The Beavers dominated the entire game but failed to capitalize on many opportunities. Because of this, Caltech could muster only a 2-0 lead going into the final minutes. J.P. Bardot scored a goal assisted by Jim Bower, and then Bower scored a goal. Pierre Harvey and Dwight Berg assisted on the second goal. Unfortunately the Beavers relaxed a little too soon and Northridge scored two goals in the last two

minutes for a final 2-2 score.

On Thanksgiving eve a Caltech team missing several key players took on U.C. Irvine for the second time this season. Though Irvine won again, the score was much closer than that of the previous meeting. The Beavers skated with Irvine for the entire game and the final shots-on-goal count was nearly even. Luck seemed to favor Irvine that night, and they scored four times against Caltech's none.

In these last two games Martin Brouillette played goalie for the first times in his career. Brouillette recently appeared on national television saying that he plays football because he likes to hit people. Evidently he plays hockey because he likes to be hit. Brouillette made a number of impressive saves in the Irvine and Northridge matches. Next Wednesday the hockey team will play UCLA at the Pasadena Ice Center. Game time is 9:45PM.

Interhouse, Discobolus Track Rules Change

by Michael Keating

At their regular Wednesday night meeting, the Interhouse Committee voted to restructure the events for both interhouse and discobolus track meets.

For interhouse track meets meter-based races have replaced all races that were formerly yard-based. The only significant consequence of this change is that the one-mile and two-mile runs are replaced by 1500-meter and 3000-meter races.

Discobolus track will now consist of all the events that comprise the interhouse meet excluding the 3000-meter run and the hurdle race. Point scores for first through fourth places have gone from 5-3-1-0 to 5-3-2-1 in individual events and from 5-0 to 3-0 in the

relay races.

John Beck, who is a senior and captain of the Caltech cross country team, proposed the changes. The new 400-meter, all-weather track prompted Beck to propose these changes. Beck stated to the IHC that "in light of the fact that it is a 400-meter track as opposed to the former 440-yard track," the metric events would be more appropriate.

As for eliminating the javelin throw, Beck believes the event "is too dangerous for the chaotic situation that is found at the interhouse track meet."

The IHC voted unanimously in favor of the new rules. These will be in effect for the interhouse track meet second term of this school year.

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WHAT GOES ON

Announcements for *What Goes On* must be submitted on an announcement form (available outside 107 Winnett) or on a plain piece of paper. Please indicate the date(s) you want the announcement to run. Send announcements to 107-51, or put them in the mail slot in the door of 107 Winnett. Announcements *must* be received by the Tuesday prior to publication.

Tech Staff Meeting

This week's *California Tech* staff meeting is today, Friday, at 12:15pm in 125 Baxter. If you are on the staff, would like to be, or just want to throw pies at the Editors (don't ask), be there!

Walk For Books

On Saturday, December 6th, AM/PM Mini Markets will sponsor a Walk-a-Thon through downtown Los Angeles to help raise money to replace the nearly 400,000 books that were destroyed in the two Los Angeles Public Library fires earlier this year. The walk will start at 10 am at the Central Library site, 630 W. 5th St. in downtown Los Angeles. Registration will begin at 8:00 am, and the entry fee is \$12. All walkers will receive a Save the Books T-shirt, and refreshments will be provided by AM/PM Mini Markets and Arrowhead Water. The walk is scenic, including the Music Center, Olvera Street and Little Tokyo. The route is 6 kilometers. For those not fond of downtown L.A. parking, the 485 bus on Lake Ave. and the 401 bus on Colorado will both drop you off at 5th street, about two blocks from the Central Library. Sure it's a Saturday morning, but it's a good cause, right?

Heidi's Ex-Couch

The last act of the California Couch Authority before its bankruptcy was to revoke Heidi's permit to own and operate the couch in the Ricketts Courtyard. The couch is now open for unlimited public use unless Heidi appeals the CCA's action.

Putnam Exam Tomorrow

The Putnam Exam is **TOMORROW**, December 6. It will be held from 9:00AM to noon and 2:00PM to 5:00PM. Participants should show up at the first floor lobby of Baxter by 8:45. Bring pencils, erasers, good luck charms and security blankets. *Don't* bring calculators, slide rules, scratch paper, or anything written. If you're signed up, but won't be taking the test, or you're not signed up but want to take it, contact Rick Wilson at x4362 or Lillian Chapelle at x4335.

The little t is Here!!

Yes, after enormously long printing and shipping delays (not *our* fault, mind you) the *little t*, your indispensable guide to everything, is finally here. "Here" denotes the hallway outside 107 Winnett: that's as far as your humble Editor was able to drag them. Each house gets two boxes of 60, so if there are no copies in your lounge go grab your boxes.

One copy per bona fide undergraduate, please! Extra copies will become available in a few weeks after students have had a chance to get theirs.

Please address comments on mistakes, missing or out-of-date information, general gripes, or even neat new stuff that should be in next year's edition, to: *little t*, 107-51. Yelling at the Editor will be far less productive.

Choir Christmas Concert

The Caltech Glee Clubs and the Chamber Singers will present 'A Holiday Concert' in Dabney Lounge tonight and tomorrow night at eight and Sunday at three. Tickets are \$5, \$2 for students, and can be purchased at the Caltech Ticket Office. Some tickets may be available at the door.

Holiday Open House

All students and faculty are invited to a Holiday Open House sponsored by the Alumni Association. The place is the Alumni House, 345 South Hill Ave. and the time is 5:00-8:00PM on Wednesday, December 10. Refreshments will be served.

Salvadoran Prof to Speak

What kind of an impact does \$500,000,000 of U.S. aid annually have on a small Central American country? What does "low-intensity conflict" mean to peasants in Chalatenango? Find out for yourself, first-hand, in Winnett Lounge on Thursday, December 11, at 3:00PM. Father Jon de Cortina, S.J., will give a talk entitled "U.S. Foreign Policy in El Salvador and Its Effects on the Prospects for a Negotiated Peace." Fr. de Cortina is a professor of mechanical engineering at the Central American University in San Salvador, El Salvador. He has actively worked with the "displaced" (those who have been forced to move from their homes as a result of the war) in El Salvador, and recently accompanied Archbishop Rivera y Damas during the Archbishop's first trip into the "controlled zones" (areas currently being held by the FMLN rebels fighting the Duarte government). His activism on behalf of the poor resulted in him being targeted by the death squads and his house being bombed in 1979. He was recently designated by the Archdiocese to coordinate evaluation of structural damage in El Salvador following the recent earthquake.

The talk is sponsored by the Caltech Y; for more information, contact Marty St. Clair at x6576.

The Red Door Art Gallery?

Currently on display in the Red Door Cafe is a series of oil paintings by Caltech undergrad Bengt Magnusson. Bengt, a senior, is a resident of Blacker House. He used the House trunk room as his studio and the paintings on display were completed during the last year and a half. Please come by the Red Door any afternoon from 2:30 to 6:00, not only to see the exhibit but to enjoy a light snack and beverage in an easy, friendly environment.

Renaissance Workshop

The Caltech Medieval/Renaissance Society will be having a costuming workshop in Winnett Student Center on Sunday, December 7, beginning at 3PM. Bring munchies for the pot-luck.

CMRS Fighters' practice will be held on Sundays at 1PM outside Winnett for armor-making and combat practice.

Beyond War Awards Sunday

Caltech students, faculty and staff are cordially invited to attend the "Spacebridge of the Americas," 1986 Beyond War Award Ceremony in Beckman Auditorium on Sunday, December 14, 1:30-4:00PM. The fourth annual Beyond War Award will be given to the Contadora Group of nations—Colombia, Mexico, Panama and Venezuela—in recognition of their unrelenting efforts at finding non-violent resolution to Central American conflicts. Tickets are available at the Caltech Y, \$2.50 for students, \$5.00 for others. For more information, please contact Hasok Chang at 792-2659.

Return Peace Petitions

If you have been circulating the petition for peace in Nicaragua, please make sure to return the signed forms soon. It's time to get them to Washington, D.C. Mail them to Hasok Chang in Ricketts, mail code 1-59. If you have any questions, please call 792-2659.

Attention Writers!

The Literature Faculty is proud to announce the 41st Annual McKinney Competition. The Mary A. Earl McKinney Prize is awarded each year for excellence in writing. Only full-time students officially registered at Caltech as undergraduates are eligible to enter the competition. This year three prizes will be given in three categories: poetry, prose fiction, and non-fiction essays. All submissions must be typewritten and double-spaced. In the poetry category, entrants may submit up to three poems. Submissions of prose fiction should not exceed 12,000 words. Essays may be ones prepared for a humanities class or any good piece of original writing on a topic relevant to the humanities. The prize in each category will be \$300.

Each student is entitled to only one entry in each category. All contestants must submit their work to Professor Jenijoy La Belle, Division of the Humanities and Social Sciences, by no later than April 30, 1987. No entries will be returned. Each category will be judged by a three person committee from the Literature faculty. Essays will be judged on the quality of thought and the effectiveness of the writing. Winners will be announced the last week of May. The names of the winners will appear in the commencement program. There will be an Awards Banquet on May 28. The Committee may divide the award in each category in case of more than one outstanding essay. Previous winners in any one category are not eligible for the competition in that category.

If you have any questions, contact Dr. La Belle, x3606, or Betty Hyland, x3609.

De Karman Fellowship

Information regarding the Josephine de Karman Fellowship is available in the Financial Aid Office, 12-63, and the Graduate Office, 2-31. These fellowships are for seniors and third year or more graduate students for 1987-88. Grants are for \$3,000 for one year and are not renewable. For applications write to:

Fellowship Committee
Attn: Ms. B.J. Brown, Secretary
Josephine de Karman Fellowship Trust
P.O. Box 446, La Verne CA 91750
Application deadline is January 16, 1987.

Master's Tea

All undergraduates are cordially invited to the first term Master's Tea **TODAY**—Friday, December 5th, at 2PM. Come munch your way through Black Forest Cake, Raspberry Mousse, Lemon Mousse, Chocolate Almond...uuuuuum.

MacValley December Meeting

The MacValley Users Group announces that its December general meeting will be held Tuesday, December 16, at 7:30PM in the cafeteria of Burbank High School at Burbank Blvd. and Third St. in Burbank.

Ten to fifteen vendors of software, hardware and accessories will exhibit their products at the second Annual Holiday Vendor Faire.

For further information please contact Ruth Stever, 848-1277, or write MacValley Users Group, Box 4297, Burbank CA 91503.

NSF Engineering Program

A new National Science Foundation program, titled "Creativity Awards in Graduate Engineering," is being offered to make graduate study more attractive and to improve the quality of engineering education by encouraging creative activities. These new creativity awards will support students based on their ideas as embodied in a plan of research.

Approximately 30 grants per year will be awarded competitively to students, whether they are still undergraduates or have graduated in the last three years and have not done graduate work. Grants will be for up to \$30,000 a year for up to three years and could be used to produce a graduate thesis. The grant will go to the student's institution and will provide an annual stipend of \$11,100 plus tuition and fees as well as funds for research. To apply, a letter should be sent to NSF by February 1, 1987 describing the research idea. Full information on what should be in the letter is available from the Office of the Dean of Engineering or from Chairmen of Engineering departments. The applications will be evaluated by a review panel. The grant is portable and is conditional on the awardee being accepted into a graduate school.

continued on page 6

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