

Sorry, Chuck, I'll
have the 181
Monday

THE CALIFORNIA TECH

I'm not Dan
Ashlock-PJS

Volume XC, Number 5

Pasadena, California

October 21, 1988

ASCIT Suspended

IRS Levies \$3,000 for Failure to File Tax Returns & California Dissolves Corporation

by Brian Lemoff

"The rights, powers, and privileges of this corporation have been SUSPENDED for failure to pay the amount due or file the required return."

So began the letter, dated July 1, 1988, from the Franchise Tax Board of the State of California to the Associated Students of the California Institute of Technology (ASCIT). In addition to having its corporate identity suspended, ASCIT has received notice that the IRS intends to put a lien on one of its bank accounts to force payment of over three thousand dollars in outstanding debt. The debt is the result of a penalty, levied against ASCIT by the IRS, for failing to file a tax return for fiscal year 1985 (March 1985 through February 1986) on time.

Dini Shotwell, who works in Caltech's General Accounting Office, has prepared ASCIT's tax returns for many years. She explained that prior to 1986, ASCIT had almost never sent its books to her before the filing deadline. Each year, ASCIT would be granted a six month extension to file its return, and usually the books

would be organized in time to meet the new deadline.

Occasionally, even the extra six months would not be long enough. When this happened, Shotwell would include a letter with the tax return, explaining the extreme time constraints put on Caltech students as well as the special nature of ASCIT. Since ASCIT had never actually owed any taxes, the IRS would typically look the other way.

In 1986, ASCIT Treasurer David Bruning organized his books and delivered them to Shotwell with time to spare before the filing deadline. The return could not be filed, however, until the *little t* and the Coffeehouse had also turned in their books. Since they were late, ASCIT applied for and was given the standard six month extension.

During this time, Shotwell was unable to locate Coffeehouse Manager Joe Williams. No one at the Coffeehouse knew where to find him, and no one had any record of the previous year's accounts. *Little t* business manager Sam Wang, although locatable, was slow in delivering records which were themselves incomplete.

Finally, Shotwell gave up and filled out a return using estimates

based on previous years' accounts. By this time, however, the six month extension had elapsed, and the return was late.

A letter of explanation was included with the late return, as Shotwell had done in previous years. This time, however, ASCIT soon received a bill for the late filing penalty. Shotwell wrote several letters to the IRS explaining ASCIT's special circumstances and asking for an "abatement", the term used to refer to a cancellation of the penalty. The IRS, however, has no record of any correspondence from Shotwell or anyone else regarding ASCIT.

Little was heard from the IRS until July of this year. The first week of that month, the State Franchise Tax Board, the state agency responsible for overseeing taxation and corporations, sent ASCIT a Notice of Suspension, which informed the corporation that it was effectively out of business. According to the notice, ASCIT has forfeited the right to use the name "ASCIT." Also, ASCIT can no longer "...transact business, defend or present an action in court, protest assessments, or claim for refund of taxes paid." The notice goes on to state that any contracts entered into by ASCIT are "voidable by the other party through legal action."

A few days after the suspension notice, the IRS sent a final notice to the former "ASCIT" that the corporation owed \$3,102.95. If this was not paid within ten days, the IRS warned, a lien would be put on ASCIT bank accounts to recover the money. Because ASCIT Treasurer Mike Salisbury was away for the summer, both letters went unread. Thus, two weeks later, the IRS sent notice that it had attached a levy to an ASCIT account with Sanwa Bank for the amount of \$3,136.19. Through all of this correspondence, however, no one was opening ASCIT's mail.

It was not until about two weeks into first term that ASCIT Secretary Jeff Flint, while cleaning off his desk, came across three official-looking letters, all dated early July. It was only then that the corporation first became aware that, if it still existed, it was in BIG trouble. Flint and Salisbury quickly

turned to the Caltech Administrator for Student Affairs, Stanley Borodinsky, who agreed to help out.

The Tech interviewed Borodinsky, hoping to find out exactly how ASCIT is to be affected. Unfortunately, neither he nor anyone else yet knows. Borodinsky is convinced that ASCIT should not have to pay the penalty. He argues that it is unfair to charge a group of students, none of whom are business majors, such a stiff penalty simply for filing a late return.

Furthermore, he continued, it seems ridiculous to pay three thousand dollars in late filing penalties given that ASCIT never actually owes any taxes. As to whether or not the IRS would buy his argument, Borodinsky was unsure. At the time of the interview, he seemed to think there was a reasonable chance of finding a sympathetic soul at the IRS who would cancel the penalty. Since then, Borodinsky has spoken to the IRS, and he now seems much more pessimistic.

It now looks as if ASCIT will have to pay the penalty. According to Salisbury, the ASCIT budget is about fifty thousand dollars. Of that, there is about a ten thousand dollar surplus. The BOD had discussed the disposition of this money, possibly setting aside five to ten thousand dollars for future years. Thus, the loss of three thousand dollars is not a complete catastrophe, but, says Salisbury, "Three thousand dollars is a big chunk of money."

It is also unclear whether the IRS levy attached to the Sanwa Bank account means that the penalty has already been paid. According to Borodinsky, the Sanwa account had practically no money in it to begin with. Salisbury thought the account had more money in it, but he is not certain now whether or not that money is still there. In either case, both believe that the IRS will continue to attach levies to ASCIT accounts until the penalty is paid in full.

As for the suspension of ASCIT as a corporation, Borodinsky is not worried, despite his statement, "If the letter were interpreted in the vein in which it was meant, it would mean that ASCIT would

cease to exist."

Borodinsky explains that corporations like ASCIT, i.e. nonprofit student organizations that disburse all of their income in the same year that it was earned, are very rare.

Borodinsky seems to feel that ASCIT can continue to function virtually unaffected by the suspension. That is not clear to all ASCIT officers, but regardless, everyone agrees that ASCIT's corporate status should be revived as soon as possible. As soon as it is confirmed that the IRS has received payment of the penalty, Salisbury intends to submit an "Application for Certificate of Revivor" to the State Franchise Tax Board.

All persons interviewed seemed confident that, once the three thousand dollar fine was paid, ASCIT would be returned to its corporate status; however, in point of fact, there is still a lot of confusion on this issue. Whether or not re-incorporation would allow ASCIT to keep its original charter or force it to draw up a new one is not certain.

Also, corporate laws have changed since ASCIT's original incorporation, and student bodies are no longer permitted to incorporate. In addition, there is a small chance that ASCIT would be forced to reactivate its incorporation under a different name.

It is likely that, despite its current problems, ASCIT will be more or less back to normal in a couple of months, possibly with some few cosmetic changes, but both Borodinsky and Shotwell see this as a good lesson for students. All of ASCIT's troubles began when two students who had been chosen to fill positions of responsibility neglected those responsibilities.

The lesson to be learned, they say, is twofold. First, students who volunteer to fill managerial positions should be aware that a neglect of their duties could result in far-reaching consequences for the entire student body, possibly years down the line. Secondly, when electing leaders and appointing managers, ASCIT members should be careful to select people whom they know will be prompt and diligent in performing all of their duties, not just those most visible.

ASCIT Corporate Functions Form Important Part of Student Life

by Al Petterson

Just what would happen if there were no ASCIT? Since no *little t* yet exists for the frosh and others who may be unclear on the subject, let us begin by reviewing just what ASCIT is and what it does for the student body.

ASCIT, the Associated Students of the California Institute of Technology, (or ASSOCIATED STUDENTS OF THE CALIFORNIA INSTITUTE OF TECHNOLOGY), the latter being the IRS's official abbreviation, "has been a nonprofit corporation registered in the State of California since the mid 1930's. Thus, you are not only a student, but also a shareholder in what is easily the most loosely-operated corporation in the free world" (from the 1987-88 *little t*). How true that quote seems now.

ASCIT functions as the student body organization for the students of Caltech; the corporation holds and sponsors social events, runs elections (such as last and this Friday's), allocates and disburses funds to student organizations, from the Rambo Club to the Caltech Lesbian and Gay Society, provides an official structure within which student government bodies such as the IHC and the BOC exist (one may assume even frosh have heard of these by now), and in general collects and spends sixty dollars per student per year.

The last two statements are the most crucial. ASCIT is not governed in any way by the administration of Caltech. Its articles of incorporation provide for relations among the houses (IHC) and disciplinary relations between the undergraduates and the faculty and administration (BOC).

In case anyone wonders where the famous Honor System actually

exists on paper, check out Article 3 of the ASCIT bylaws. Without ASCIT, there is no BOC and the existing enforcement mechanism of the Honor System disappears. It's that simple.

The IHC, in addition to being a shouting match among the seven most politically competent Techers, is the body which appoints undergraduates to faculty committees, including such inconsequential committees as Admissions, Curriculum, Student Housing, and UASH. The IHC as a recognized entity would cease to exist, and the existing mechanism for the appointment of student members to faculty committees would also disappear.

ASCIT's existence as an independent entity also guarantees the ability of the student body to allocate its own social budget in a manner equitable to its members. If ASCIT were to go up in smoke through failure to resolve the current crisis, the ability of the student body to bill itself for social events, the Big T, and kegs of beer would be subject to the whim of the administration: this means that the administration could deny funding to any club it chose.

How much would actually change is a matter of absolute conjecture. What is indisputable is that the dissolution of this independent entity would create the potential for the administration to grab much of the control currently held by the undergraduates over their social and academic affairs.

Those members of the administration interviewed by the staff of the Tech downplayed the potential for detrimental change inherent in the current problems faced by ASCIT, but they are also the ones to whom final authority over student affairs might pass in the absence of ASCIT.

ASCIT/BOC Bylaw Changes Pass by Wide Margin, Dabney Seizes Control of the Tech



Photo by Elaine Lindelef

ASCIT elections were held Friday, October 14 for the office of Tech editors and changes to the ASCIT/BOC bylaws. In addition, Junior and Senior class officers were voted on.

The Al Petterson, Paul J. Ste-Marie, and Tom Tucker team defeated John Woolverton, *et al.*, by 166-109. All of the serious ASCIT and BOC bylaws changes passed overwhelmingly.

In the Junior class elections, Viola Ng beat Tom Capellani and NO for treasurer by a vote of 46-21-18. The race for president resulted in a runoff between Cliff Kiser and Margi Pollack.

Both Senior class races resulted in runoffs, between Christopher Chu & Derek Woolverton for treasurer, and between Tom Bewley, Bassem Mora, & Pierce Wetter for president.

Editorial Stabs at Meaningful Prose

Now that we know what publishing an issue feels like, let's get down to making things consistent. These are lines to guide you in dealing with us, to help you understand what we're willing, unwilling, and likely to do, and to tell you what we want from you. Also, though we violate rules of form to admit it, we have some space to fill.

We appreciate those staff members who have continued to submit copy under the new leadership. However, we do not feel that a paper this size needs separate Sports, Entertainment, or Inside World Editors, regardless of who conferred those titles in the past, or why. Sports and entertainment reporters are welcome and needed, but the number of editors has been inflating pointlessly for some time. When we have an Entertainment or Sports staff, then an editor to oversee that staff makes sense. When only one person is writing all the material in a section, he's a reporter, not an editor.

We will accept copy for the current issue from anyone at any time until 12 noon Wednesday. Late copy might get in, but bet on it not. We assume the right to edit all copy to fit, to improve readability, to satisfy the conventions of literate English, and to conform to sound principles of journalistic newswriting and the style of The Associated Press.

In particular, The Inside World will serve as our infinitely editable space buffer. We'll set it in six point type from now on to devote as little space to such shit as possible. If we're tight on space, The Inside World is the first thing to go, so the pithier those entries the better. Of course, we'll edit to preserve meaning, but this implies that chunks of The Inside World which mean something are most likely to survive. We'll let you guess what "mean something" means. With luck, Inside World writers won't waste their time submitting texts which offer nothing to the general reader. If dubiously clever inside jokes about sheep, frosh and lambskin condoms grow scarce, and we read less about what the BOD y BOC said to Gooney in Puffer's bed with seventeen Secret KY Cucumbers, perhaps we'll all sleep more easily.

Let's mention censorship, as long as we're talking about The Inside World. We're editors. We edit. This editorial staff isn't going to be too squeamish about profanity, nudity, and other strong traditions of good journalistic lineage. We're not censors; we don't censor. We'll resist the temptation to reduce all four-letter words to four-point type so that no one can read your writing shit. We will not fuck with profane or nude copy which artfully expresses meaning the way it was meant to be. We won't cut shit, but we may just edit it out. You'll have to trust our judgement, which fortunately leans toward the obscene.

In a related vein, letters in last week's Tech raised the question of whether the advertisement for Population-Environment Balance should have been printed. The present business manager, Gavin Claypool, is responsible for procuring ads for the Tech and must see that those ads which have been paid for appear in the paper regardless of the wishes of the (erstwhile) editors. Had we been editors last week, we might have considered that ad to have been bigoted and offensive, and we might then have encouraged Gavin not to accept the ad. Then again, the ad seems to have sparked some controversy and criticism from the student body; it may therefore have been no bad thing. Never let it be said that we will not readily waffle.

You know, there're a great many other editorial policies we might put forth here. Had we thought before writing this we might then have arranged these policies into an editorial not only topical and well-written, but also worthy of this sentence.

letters

To the Editors:

Easily the stupidest facet of student life, house rivalry has now been rubbed in all our noses in a permanent and abiding fashion. I am referring to the Fleming House yearbook.

This atrocity in red has been given to me as the Caltech yearbook I purchased last year. It is not. All four previous yearbooks I have fulfilled their obligation to be non-partisan in presentation. Hell, the last time Fleming House did this they printed "the Big F" on a removable slipcover, leaving a perfectly normal Big T underneath. Show some class.

The most irritating part of this is the attempt to make the cannon into a campus-wide symbol. I have spent hours trying to explain to students of Harvey Mudd that the reason that Tech students helped them take the cannon was because the students that helped were not from Fleming. They made a successful prank against one-seventh of the student body and claim that they put one over on us all. They will quickly inform you, should the subject arise, that you are a wimp for not replying to their prank against you. Well, it is not against me and I resent Fleming House members casually assuming I am willing to carry their ego for them.

-Doug Bloomer

committed by some non-Caltech people or if it was someone's incredibly imaginative and hilarious prank. In any case, I would just like to point out that the Fleming Cannon is over 90 years old, and examples of its class are very rare. As such, any severe damage can only be fixed at great difficulty and expense. Taking off pieces of the cannon's carriage as described above could conceivably cause the wheel to collapse, sending three tons of steel crashing to the pavement on top of whoever was dumb enough to try it. Repairing or replacing the wheels would easily cost a few thousand dollars. At any rate, the morals of this letter are: 1. Please don't mess with the cannon—it's a bona-fide antique that's very hard to get parts for, and the IHC has declared it off-limits to pranks. 2. If you see someone messing around with the cannon who doesn't belong (i.e. isn't me or my duly-appointed surrogate) then tell them to cut it out, call security, or come and tell me about it and I'll tell them to cut it out (and no, Harvey Mudd does not have a service contract with us to clean the cannon).

Sincerely,

-Kent B. Nordstrom
Cannonmaster of Fleming House

To the Caltech community:

The Coffee House Users Group (C.H.U.G.) has just finished replacing the comics lost or stolen over third term and the summer. The cost to replace these issues was 128 dollars. This is a daunting amount of loss.

To remind upperclassmen and inform the frosh, the coffeehouse comics are for reading in the coffeehouse only. They are not a lending library. I know that you are an honest person and will return them, but while they are in your hot little hands it is my luck that a horde of fanatics will all show up in the coffeehouse and start accusing me of having not purchased their pet titles. And if you, heaven forbid, forget to return them... well, it would be bad.

Three terms of replacing sizable amounts of missing comics is

beginning to chafe on C.H.U.G. Anything we have thought of beyond labelling the comics has been too draconian. Do you really want to have to ask for comics at the counter? (Show your ID?)

Please don't take the comics out of the coffeehouse.

-Doug Bloomer
Chairone C.H.U.G.

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ASCIT FRIDAY NIGHT MOVIE

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BAXTER LECTURE HALL 7:30 & 10:00 p.m.
\$1 for ASCIT members \$1.50 for others

NEXT WEEK 3-D! The Creature from the Black Lagoon

SURF Forever, Dude!

[CNB]—Caltech has established five new funds for the purpose of endowing, in perpetuity, the Summer Undergraduate Research Fellowship (SURF) program. The \$50,000 endowments will commemorate five late, distinguished members of the Caltech faculty. To encourage contributions to these funds, Mr. Hugh Colvin, chairman

of the SURF board and president of The Caltech Associates, has underwritten each endowment in the amount of \$10,000.

"Hugh Colvin has been an enthusiastic supporter of Caltech for many years, and we are deeply appreciative of his commitments to SURF and to the gifted undergraduates who benefit from the program," said Caltech's President

Thomas Everhart. "His generous gift will help in providing our students with unique opportunities to discover the challenges and rewards of research. In this way, they will also gain experience that will be extremely valuable to both their academic and professional careers."

Now in its 10th year, SURF is highly regarded in academic and corporate circles for the special opportunities it offers undergraduates to design and carry out research projects on a one-to-one basis with a senior researcher in a field of the student's choice. Each Caltech SURF receives a summer stipend of approximately \$3,000 to support ten weeks of research, conducted in close association with a Caltech faculty member or with a staff scientist at the Caltech/NASA Jet Propulsion Laboratory. The program also sponsors research seminars and career workshops throughout the summer, and many SURF students subsequently publish the results of their work in professional and technical journals.

SURF is supported through a combination of private contributions, institutional funds, and corporate grants. Sponsors for 1988 included the Caltech Alumni Association, IBM, General Motors, Ford, Bristol-Myers, the *Los Angeles Times*, and the National Science Foundation. More than 170 undergraduates, including twelve students from other institutions, participated in SURF this year, along with 94 Caltech faculty members, 17 JPL technical staff members, and 5 outside research sponsors.

In announcing the gift, Colvin

said: "For over sixty years Caltech has been one of the world's great centers for pioneering work in science and engineering. The SURF program follows in that tradition by providing exciting opportunities for Caltech undergraduates to participate in an unparalleled learning experience with many of the world's leading professors while undertaking fundamental research. No other school we know of provides this kind of intensive research opportunity at the undergraduate level."

Dr. Frederick Shair, professor of chemical engineering and director of the SURF program, said: "I cannot think of endowments which have more potential, or are more suitable, than these. These endowments encourage the player/coach relationship between our undergraduates and our faculty, while simultaneously honoring the persons who participated—with great passion—in the growth of our young people years ago. Hugh Colvin's spirit and generosity will be long appreciated."

The five Caltech faculty members commemorated by the new endowments are:

Donald Sherman Clark (1906-1976), a Caltech alumnus and pioneering metallurgist, who served on the Institute's faculty for more than 40 years;

William Noble Lacey (1890-1977), a principal founder of Caltech's chemical engineering program and a member of the chemistry and chemical engineering faculty from 1916 to 1977;

Thomas Hunt Morgan (1866-1945), professor of biology at Caltech from 1928 to 1945 and

recipient of the 1933 Nobel Prize in Physiology or Medicine for his discoveries concerning the relationship of chromosomes to heredity;

Arthur Amos Noyes (1866-1936), the founder of Caltech's chemistry program, the director of chemical research at the Institute from 1919 to 1936, and a principal founder of Caltech's undergraduate research program;

Ernest Haywood Swift (1897-1987), a Caltech alumnus, member of the Caltech chemistry faculty from 1920 to 1987, and chairman of Caltech's Division of Chemistry and Chemical Engineering from 1958 to 1963.

Hugh Colvin received his B.S. in applied chemistry from Caltech in 1936 and his MBA from Harvard in 1939. He became a director and assistant to the president of Consolidated Electrodynamics in 1947 and was named the firm's president in 1956. In 1963 he became president of Unitek Corporation, a manufacturer and marketer of orthodontic and dental materials. Unitek was acquired by Bristol-Myers in 1978, and Colvin served as a vice president of that company until his retirement in 1982.

Colvin served on the board of directors of the Caltech Alumni Association and was editor of *Engineering & Science* magazine in the early 1940s. He was elected president of The Caltech Associates, a major Institute support group, for the year 1988, and is a member of the President's Circle, a select group of donors within The Associates. He became a member of the SURF board of directors in 1984.



Alan Corcorran and Diana Lettman form a classic hero-heroine pair, complete with Bermuda shorts. Photo courtesy Ron Gidseg and TACIT.

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CALTECH *public events*

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CIT Students - \$6.00 rush tickets go on sale the day of the show.
 CIT Faculty & Staff - Buy TECHTIX (half-priced tickets) on Friday between noon and 4:30 p.m. at the Caltech Ticket Office.

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BLOOM COUNTY

by Berke Breathed

The Inside World

This week's Inside World is brought to you by:

Blacker: Glenn Eychaner
 Dabney: Lyle Scheer and Erich Schneider
 Fleming: Chris Habecker
 Lloyd: Doug Peterson and Paul Socolow

Page: Nobody
 Ricketts: Su-Lin Wu and Help Wanted
 Ruddock: David Proctor

Blacker: Blacker Inside World Editorial Policies: While I write the Inside World, I will not:

1. Use the suffix -OR.
2. Use the word f**k, except in conjunction with the numbers 95, 98, and 106.
3. Single out individuals like Brad, except when I feel like it.

Now for some house events:

Despite the kindly help and witty conversation of the upperclassmen, none of our poor, weak frosh were able to complete the arduous Lounge Run. From the results, you'd think they never even tried. (Frosh are Wimps.) (Anyone who hasn't been here for at least six years is a wimp. -AJ)

Kudos to the social team for pi time; the pies were many, varied, and delicious. Kudos to the celebrity judges for enduring the poetry competition. Their checks are all in the mail, right, Steve? Gee, without the bribes, the rating sure would have been a lot harder. But we have an alley ordering now, so Challenge, dammit! Besides, challenging is the one of the best ways to make the veep's life a living hell. What else does he have to do?

Kudos to Brad for his car. By the way, Brad, what did Ann promise you to get your keys, and when are you going to collect? And why was a frosh girl at Foster's with your car without you, anyway? (Random gossip comment for the day.) Quote of the week, by Christina: "I'd change my major if I could think of something." (It's just sooooo Christina.) The next time Page sends biased umps to one of our games, we'd appreciate it if they would be anti- instead of pro-Fleming.

Well, now that I've singled out a bunch of people and written an overly long and often tedious but with its high points Inside World for the week, just sign me...

(you guessed it)
 -PermaFrosh!

Dabney: Hello, and welcome to the guided tour of DabniCorp™ for our new employees. We shall start with the Agrifarms. Here, you will see some of the most technologically advanced planting and harvesting techniques known to man. Look, here come a few happy employees who have personally seen the results of our labors...

"Wherewithal, I thought YOU had the wherewithal."

"No man, I brought the heretofore, you were supposed to bring the wherewithal. Wait, here comes 'S', he has some wherewithal. Hey, 'S', do you have the wherewithal?"

"Yeah, I just happen to have it with me. Do you have the heretofore?"

"You bet. Now all we need is the whywithwhat."

"I thought you had the whywithwhat. It usually goes with the heretofore."

"Sorry, I guess we'll have to use matches."

Ahem, anyway, we are very proud of our Agrifarms. Our methods are so sophisticated, they are now being used to take over small Central American countries.

We shall now move on to recent DabniCorp™ news. According to sources, the world famous Dabney Applied Biology Research Library has moved. By my accounts, it appears that the library was too large to fit into the librarian's new and spacious quarters (All hail the Goddess Dark N for our wonderfully huge and perfect rooms: so great that nothing could improve them.) In any case, the library made a temporary move to the Party Suite, and then to its seminal location of the living room at "2 pi".

Rumor has it that a weekend trip to the laserium was a success. Last Thursday's premiere of the "Room 16 Movie Night" featured the memorable phrase, "11 guys and one girl in Erich's bed in the dark, that's DISGUSTING!!"

The new employees were quickly indoctrinated into corporate life. This indoctrination includes higher mathematics, such as the famed Gestalt Number Theory. Much rejoicing occurred when we discovered that ALL of the new employees were able to conquer this difficult and confusing aspect of number theory.

In further news, this fiscal trimester plays host to many company social events. First and foremost is the "New Employee Barbecue" (Which does not imply that the new employees are hosting the barbecue.) However, the Director of New Employees, "S", appears to be an on-the-ball go-getter. It was he who suggested the procurement of "Research Gases" for "Scattering Experiments" on Add Day. Also in the works is the "4 days to general election party" (aka. Frosh Wash & Crisco Party). New employees, don't be intimidated!

And finally, the DabniCorp™ Joke of the Week:

Q: "Why is 'Dark N' like the Central Committee?"

A: "The Soviet Union is the Worker's Paradise. Why should we grant exit visas? Who wants to leave the perfect society?"

-Triplet

Fleming: This week's inside world begins with a disclaimer:

If you're gonna be offended by this column, don't fucking read it! Let's start this week off right, shall we? page sux! page sux! page sux! Aah, I feel much better now. It seems that the Big Red Editing Team of Doom was not to be. Perhaps it had something to do with the Big Red T [not to mention the invisible little red t-PJS] this year? Nah, couldn't be. Anyway, from what I read of their statement I feel that the new editors should provide some much needed improvement, mainly in the fucking inside world. I don't expect to see any more cheesy barnyard scenes or random farm animals interspersed with my oh-so-witty prose! And even though they're Darbs I totally agree with their "fuck the administration's concept of journalism" attitude. [Good Lord, a reasonable Flem - PJS] After all, if they want to read a real paper they should shell out the lousy four bits and buy one. The last editorial team crumbled before the pressures of those people who think we need to be told how to run a paper. Then again they would have crumbled before a stiff breeze too, not that they're pencil necked geeks or anything. Enough of this shit, it's time for...

Today's Top Ten List!

- The Top Ten Reasons Russia doesn't try to create its own Caltech:
10. Good taste.
 9. Russians love their kids.
 8. RF stands for Ready, Fire!
 7. Barefoot idiots stick to frozen sidewalks.
 6. Wearing argyle socks and shorts is a capital offense.
 5. Not even the KGB uses torture anymore.
 4. Even Russia hates geeks.
 3. Ditch Day is already a national sport.
 2. KGB run housing would be too lenient.
 1. Dabney, Ricketts, Blacker, and the generic north house.

The week at a glance:

- Basketball vs. Ruddock We won
- Softball vs. Dabney cough, cough [i.e., 14-4 Dabney----PJS]
- Softball vs. Lloyd did you hear the one about...

Our softball prowess has been waning of late, but hell, if a no rate limp-dicked team from L.A. can win two World Series games, anything can happen.

And what the fuck happened Sunday? Discobolus challenge number two was basketball against Ruddock. They showed up in unbelievable numbers. I haven't seen that many Rudds in one place (outside their house) since I got to this dump. And some of them actually realized that one of the teams on the floor was theirs. We on the other hand only had ten people show up. Two starters and our regular subs were nowhere to be found, forcing Burleigh to warm up with some one-on-one with Betsy. Our desperation for players was fully revealed when I entered the game, although I didn't get to try out my 180 degree turnaround fall away jumpshot. We even let Vomit Mop play despite the fact that he didn't get time to change out of his ARGYLE socks. But you know what? We still kicked their pathetic butts 38-28. In the words of Bill, "I hope you all learned a lesson." This weekend is volleyball vs. Blacker. Let's not just be there, let's fucking be there.

This week's social event is the J. D. treasure hunt. Kent tells me that it's kind of like a scavenger hunt, except that it's more of a treasure hunt... for some J. D. Also in the works... Interhouse! We've decided on all the basic ingredients: Some water, food, gambling, courtyard, lounge, play, and some paper mache thing that like has liquid nitrogen dripping out of it into a punchbowl. I think there might even be a theme to kind of tie all this shit together. In any event it'll beat the shit out of whatever death ride page puts together out of baling wire. No one will let us use their tables for our stage, so this year we've been toying with the idea of constructing something that won't fall to pieces beneath our feet. Stay tuned.

The new RA's finally had all the alleys over to their apartment for donuts and conversation. It turns out that Barry and Anita are way bitchin', even though they ran out of donuts on alley Five night. I think now they realize where all of their socializing budget is going. Welcome to Fleming!

Build Interhouse frosh!

-The all-knowing, all-seeing master Albino.

Lloyd: Here's tonight's card from the LWF:

Andre "the Giant" Ohanission vs. Keith "the Oriental Spike" Akama: This grudge match promises to be exciting, with each midget having something to prove. Keith is trying to make a comeback from a devastating hair injury suffered at the hands of Andre's manager, Bassem "the Barber" Mora; and Andre vows to put Keith "down for the count."

Michael "the Hammer" Samoilov vs. Republican Raif Majeed: The "summit" of wrestling, but there will be no peace talks here. The match will be followed by a debate between the wrestlers concerning their respective ideologies.

KAZOR (poet laureate of the LWF) vs. Ben "One Man Gang" Funk: Needless to say, this will be a bloodbath from start to finish, as Ben continues his romp through the lower ranks of the LWF.

Doug "the Corker" Corcoran vs. John "Swamp" Gass: Doug, hailing from Parts Unknown, squares off against the unpredictable Bayou Brawler in this Texas Death Match. It will be interesting to see what weapon each wrestler brings into the ring.

She-wolf of the North and Denim Dave Jeitner vs. Yvonne "Iron" Lung and "Iron Mike" Ida: This long awaited tag-team has finally arrived, with both teams in top condition. Insiders say look to the women to decide the match.

"Cowboy" Steve Carson, Brian "Hitman" Fuller, and Jack "the Body" Boyce vs. Alan Golightly, Rick Berge, and Nathaniel Hieter: Three newcomers to the LWF take on the veteran Topless Trio. The three frosh will surely be taught a lesson at the hands of the merciless Trio.



Folks here are still talking about "The 1952 Incident." For some reason still unknown, a certain graduating class at a certain university missed what was certainly the opportunity of a lifetime.

The chance to meet with a recruiter from the National Security Agency.

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The Tech needs one or more persons to do on-campus circulation Friday mornings. Duties include picking up the Tech at the printer in Glendale, delivering it to the undergraduate houses, and bundling the faculty & staff copies for distribution via campus mail. This is a paid position and takes approximately 3 hours each week. A car (or driver) is required. Call x6154 if interested.

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Feminists Hold Forum for Candidates in Nov Election

by Erica Harvey

On Friday, October 28 at 12 noon, the Organization for Women at Caltech and Caltech WorldWork will co-sponsor a forum of candidates for the 22nd U.S. Congressional District, the 21st State Senate District, and the 41st State Assembly District. The forum will be held in Winnett Lounge, located in Winnett Center (south of the point where San Pasqual dead-ends west of Holliston). The forum is free and open to the public.

Attending the forum will be John Simmons (D), candidate for U.S. Congress in the 22nd District, Louise Gelber (D), candidate for State Senate in the 21st District, and John Volbrecht (D), candidate for State Assembly in the 41st District. The incumbents in these three races—U.S. Representative Carlos Moorhead (R), State Senator Newton Russell (R), and State Assemblyman Pat Nolan (R)—were invited in early September to attend this forum any day between October 17 and the election on November 8. The proposed format was a 10-minute period for statements by the candidates, followed

by a question-and-answer period with the audience moderated by a representative from the League of Women Voters. However, Senator Russell and Assemblyman Nolan found themselves unable to attend on any of these days, and Representative Moorhead did not wish to participate in such an event before the election.

Neither the Organization for Women at Caltech nor Caltech WorldWork (a coalition of the Environmental Study Group, Central America Study Group, and Space Weapons Study Group at Caltech) is formally endorsing any candidates. The forum is motivated by a desire to encourage informed discussion about the issues and the varying stances taken by the candidates in Caltech's districts. We applaud the three candidates who have shown their willingness to be responsive to their possible future constituents by participating in this event. We hope that coverage of such events by the media and feedback from voters will encourage similar responsiveness on the part of all the candidates in the future.

Barr Graph, Barr

[CNB]—Alan H. Barr, assistant professor of computer science at Caltech, has won the 1988 Computer Graphics Achievement Award from the Association of Computing Machinery's Special Interest Group on Computer Graphics (SIGGRAPH). Barr is the third Caltech-associated person to earn this honor in the award's six-year history. Previous Caltech winners were James F. Blinn (1983) and Robert Cook (1987).

SIGGRAPH recognized Barr for advances he has made in the field of computer graphics modeling. Problems in computer graphics fall into two categories: the realistic rendering of three-dimensional objects on the two-dimensional computer screen, and the realistic modeling of shapes and motion. Barr and his students have developed an approach to modeling in which the person creating a moving graphic image need only specify goals of an object's motion. The computer, using a technique Barr calls "dynamic constraints," applies the rules of Newtonian mechanics and automatically calcu-

lates the forces and torques necessary to achieve the preset motion goals. This technique has several important advantages: It is flexible and easy to use, it produces results that are intuitive and very realistic, and it brings about types of motion that were previously all but impossible. In addition, Barr's work may find application in areas far removed from computer graphics, including computer-assisted design (CAD), robotics, goal-oriented motion, self-assembling mechanical systems, and computer vision.

Barr was educated at Rensselaer Polytechnic Institute, where he earned his B.S. (1973), M.S. (1976) and Ph.D. (1983). From 1982-83 he was a senior research scientist at Raster Technologies, Inc. He came to Caltech in 1984.

Scriptorium!!! (What's that?)

It's a workshop on calligraphy and manuscript illumination (i.e.: medieval-style illustration), with some Heraldry tossed in... Anyone who'd like to see what it's about is welcome to attend, so stop by Winnett Clubroom 1 anytime between noon & 6pm this Sunday (Oct. 23). For more info, call Amy (449-4391) or Sean (577-7953).

Big T Editors Decanonized

by Paul J. Ste.Marie

The ASCIT Board of Directors met Tuesday night and discussed the status of the various ASCIT publications. The **Big T** has been distributed, and the *little t* will return from the printers November 14.

The salary and bonuses for the **Big T** editors were the first topic of discussion. The bonus was forfeited by the editors due to the late distribution of the **Big T** on a 6-0-1 vote of the BOD, as required by the bylaws. The issue of satisfactory completion of the annual, as required to distribute salaries, was then voted on. In a vote along straight house lines, the **Big T** was ruled unsatisfactory due to the cannon cover on a 6-1-1 vote. The BOD then voted 5-4-0 to give the editors \$150 each as a payment for the satisfactory portion of the work performed.

The *little t* delay was then discussed. The delay in publication was due to the failure of the business manager, John Woolverton, to acquire sufficient advertising to pay for printing until after the start of the term. The BOD then discussed the business manager's salary, but the ASCIT bylaws provide only for a straight commission with no performance bonuses or penalties. The BOD postponed discussion of the editors' salaries and bonuses until after distribution of the *little t*.

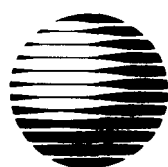
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TIME: 8:00 a.m. - 5:00 p.m.
DATE: Thursday, October 27, 1988
PLACE: Career Development Center

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Harriers Run Best Race Yet

by Scott Kister

Last Saturday, the Caltech cross-country teams traveled to the desert of San Bernadino, to compete against Whittier, Masters, LaVerne, and Cal State San Bernadino.

The Course

The course looks easy at first. The men run a flat two mile loop, disappear behind a hill, and finish on a fast two mile out and back. The women run the same course without the initial two mile loop.

Looks can be deceiving, though, as anyone on the team will tell you. The 20-30 mph Santa Ana winds brought clear, beautiful skies; but they also blew dust in one's eyes and introduced the strategy of drafting to this race.

After battling the wind, the runners looked up to see a wall of dirt in front of them. After the first steep hill, a series of hills continued

for the next three-quarters of a mile. Once at the top though, shouts of "it's all downhill from here" lessened the pain. The runners let loose down the hill, and sped in the last two miles.

The Women

Coach Jim O'Brien usually gives a talk every Friday, telling each runner which opponents he or she needs to beat. If everything goes as planned, Caltech will win. An example of this is, "Margi, this Newey girl from Masters beat you by two minutes at our last meet. You have to get ahead of her. Bibi, you need to be up with Margi."

The amazing thing is, Margi Pollack and Bibi Jentoft-Nilsen beat her, and the rest of the team did what they needed to. Caltech tied Masters in the scoring, but won because our sixth runner beat theirs.

Even O'Brien said he didn't expect

the women to win. Masters beat Caltech earlier this season, and in this race, Caltech was handicapped by the absence of their number one runner, freshman sensation Jerri Martin. It seems she thought classes and a geology field trip were more important than running (just kidding Jerri.)

In addition to beating Masters second runner, Margi and Bibi beat all of Whittier's runners. This is quite an improvement from the last time they raced, when FOUR Whittier women beat them.

Margi finished seventh overall with a time of 22:50 on the 3.1 mile course. Bibi, who has been steadily closing the gap between them, finished next, just seven seconds behind. Golda Bernstein finished third on the team in 15th place in 24:22.

Freshman Emmeline Naranjo and Mary Rowe finished close together in times of 26:22 and 26:23 respectively. Liz Warner was next in 27:48. And Betina Pavri cracked the top seven for the first time this year with a time of 28:48.

Dee Morrison, Maria Toronto, Ami Choksi, Teri Englehard, Cynthia Wittman, and Carmen Shepard all finished close behind, within two minutes of the seventh runner.

CSUSB won the team scoring. Caltech was second, beating Masters, Whittier, and LaVerne. The women improved their dual meet record to seven wins and five losses.

The Men

The men's team ran an outstanding race too. Masters beat them twice earlier, by scores of

19-37 and 20-35. In this race, the team closed the gap by ten points to lose a close one, 25-30. CSUSB won the men's competition easily. Caltech was third, beating Whittier and LaVerne.

Tech's top two runners, Scott Kister and Dan Flees, were beaten by four Masters runners the last time they raced. This time, however, Masters could put just two in front of them. Kister also improved relative to Whittier and CSUSB.

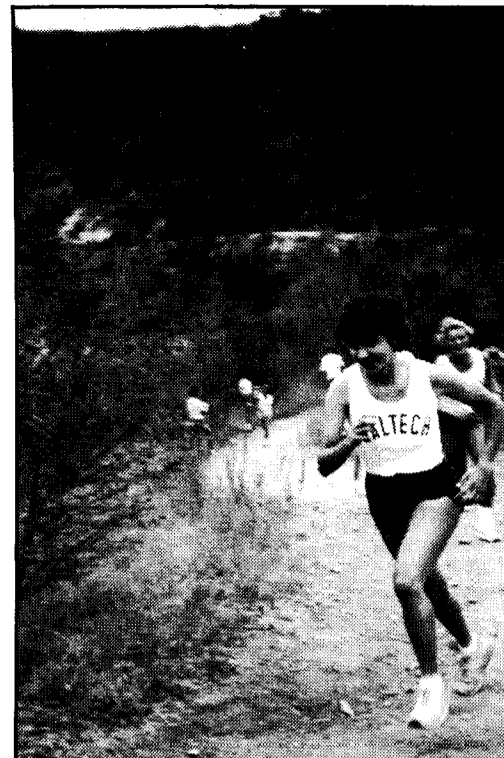
Kister finished fifth overall in 30:56 on the 5.2 mile course. Dan Flees was the next runner, twelve seconds behind. Chris Campo was third on the team, in 12th place in 32:27.

Ed Naranjo, who joined the

team in the middle of the season, continued to improve and has moved into the fourth spot. His time was 33:59, seven seconds better than freshman Mike Mahon. Kurt Storm, who is having an excellent season, ran a strong race, finishing in 34:55. Junior transfer Derek Slye held off John Raguin by one second to capture the seventh spot in 35:23.

Also finishing for Tech were Mark Lyttle, Jeff Willis, Ray Hu, Andy Crews, Paul Socolow, Mike Ida, John Bowers, Chris Goddard, Steve McLaughlin, Erice Stout, Delwyn Gilmore, Joe Fierro, Andre Ohanissian, Mark Land, Neil Brandt, Todd Kaplan, and Matt Fetterman

continued on page 8



Who said running isn't fun? Margi Pollack uses a big smile to beat her opponents up the hill. Margi was Caltech's top female runner last week.

sports

Did the Big T editors get what they deserved?
Please respond to Sam Weaver, 1-59:

- I think they deserved less than \$150
- I think they deserved about \$150
- I think they deserved more than \$150

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what goes on the back page

Announcements for *What Goes On* should be submitted on an announcement form available in the SAC copy/mail room (Room 37) or on a plain piece of paper. Please indicate the date(s) you want the announcement to run. Send announcements to 40-58, or put them under the door of Room 40A of the SAC. Announcements *must* be received by the Tuesday prior to publication.

Get Ready To DooDah!

The twelfth occasional Pasadena Doo Dah Parade has been scheduled for Sunday, November 27, 1988 from noon to 2:00 pm. Rain or shine! We have entry forms, mail order forms for T-shirts, caps and pins. If you're interested in participating in the parade or would like more information, come to room 64 in the Student Activities Center.

Women's Glee Club Signups

The Women's Glee Club is still welcoming new members. We meet in Room 1, SAC on Monday nights from 7:30-9:30 pm and Wednesdays from 5-6 pm. All members of the Caltech community are welcome. Women undergrads and grad students especially enjoy the chance to get together and build community through music. Previous singing experience is a plus, but not necessary. For further information contact Ami Choksi or Elaine Lindelef in Dabney or the Women's Glee Club office at x6260.

Need A Club Mailbox?

If your club or student organization does not have a mailbox on campus, and you would like to have one, see Nancy Matthews or Milly Pena, at the Student Activities Center, 1:30-3:00 pm, Monday-Friday.

Free Coupon Book!

This year the Student Activities Center, in coordination with local store owners, has put together a coupon book for all undergraduate and graduate students. The coupon book gives discounts and buy-one-get-one-free items at local delis, restaurants and other establishments of interest to students. Come by the Student Activities Center, Mon.-Fri. 1:30-3:00 pm and pick up your coupon book from Nancy Matthews or Milly Pena, Room 64, SAC.

Oh No, Another Totem!!!

Attention writers, poets, and artists! The second *Totem* in as many years will be coming out this year, in the spring. Within the *Totem* will be a complete and diverse collection of Teachers' expressed wisdom and imagination. If you want to see your creative efforts in print, send in those stories and drawings. Address works to mail code 116-58. For additional info contact Sam Dinkin (1-59 or x3828), or Erik Russell (Annex #5, 1-59, x6188). Also available are extra copies of previous issues of the *Totem*.

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Scandinavian Scholarships

The American Scandinavian Foundation of Los Angeles (ASFLA) is offering 6 scholarships for 1988 to upper and graduate students with demonstrated interest in Scandinavia. Applicants must have strong academic qualifications and be majoring in business, arts, science, journalism, linguistics or music. The deadline for applications is Nov. 15. To request an application, write (or call) Jane Sandler, 217 N. Irving Blvd., Los Angeles, CA 90004. (213) 463-5394.

The Muppets Take Caltech

Do you have a talent for drawing? . . . painting? . . . making puppets? Well, have we got a competition for you! Jim Henson's (yeah, the Muppet Man!) *Character Design Competition* can actually win you **BIG BUCKS!** Your assignment is to create "a two-character team of any nature or creature type." Lotsa leeway, huh? The "jury" will be looking for originality of concept and quality of execution—but the actual style of the characters is up to you! The sky's the limit: anything from a three-faced animated fire hydrant to a purple Spuce (of course, everyone knows REAL Spuces are green with yellow and orange beaks).

The presentation can be in any medium: slides, 2D or 3D, puppets, videos, software—but Puhleeze, no "live" performances! The deadline for all entries is February 24th, 1989, so start concocting some goodies now. Only entries from full-time undergraduates and graduates will be accepted. The deadline for receiving the artwork at Jim Henson Productions is March 1st, 1989.

Now for the important part: First Prize—\$1000; Second Prize—\$800; Third Prize—\$600; Fourth Prize—\$500; and Fifth Prize—\$400. To receive an entry blank, call Will Morrison at Jim Henson Productions, (212) 744-5207 (a 24-hour open line), or write to the same fella at the same place (Come see the posters in the SAC at the California Blvd. entrance and at the Orange Walk entrance).

Good luck—and remember, it takes Teachers to come up with the truly freaky.

C.M.R.S. Meeting

The Caltech Medieval/Renaissance Society will hold its first meeting of this term on Sunday, October 23 from 2 pm 'til whenever at Winnett Lounge. Potluck—bring munchies, if you can (if you can't, come anyway!). For more information, contact Sean Johnston (577-7953), Erich Schneider (356-9314), or Amy Carpenter/H. Douglass Bloomer (449-4391).

Red Cross Disaster Training

Citizens interested in learning how to be of assistance to their friends and neighbors may become a volunteer for American Red Cross and sing up for free Disaster Services training courses and workshops on various facets of disaster work.

Call the Pasadena Chapter at (818) 799-0841 for more information.

Y Book Exchange

Bring your used, unwanted textbooks to the Y. What we do is: we take them, display them on our bookshelves, and sell them to the poor suckers who will use them in the future. They get a good deal on textbooks, you get some of your money back! Let's band together to beat high textbook prices! They Y also has ring and report binders, and novels new and old.

Theatre Arts Gets Organized

Caltech Theatre Arts will hold its organizational meeting on Sunday, October 9 at 2:00 pm in Winnett Lounge. Anyone who is interested in Theatre: be it acting, being on technical staff, playing in the orchestra, watching shows or just interested in having fun should be sure to attend. If you have any questions about the program, feel free to contact us at 356-6259 before the meeting. Hope to see you there!

Electron Microscopy \$\$

The EMSA Council (Electron Microscopy Society of America) is offering an undergraduate scholarship program to further the educational and research potential in students intent in pursuing electron microscopy as a career. The applicant must be a U.S. citizen or resident alien and a full time undergraduate. The application deadline is Nov. 15. For further information please contact:

Dr. Robert Price
Bio-Architectonics Center
Case Western Reserve University
2119 Abington Rd.
Cleveland, OH 44106
or contact the Financial Aid Office, 515 S. Wilson.

More Engineering \$\$

Equal Opportunities Publications, Inc. is offering two non-renewable \$500 scholarships to honor outstanding women, minority, or handicapped students who are pursuing a career in Engineering. For further information please contact the Financial Aid Office, 515 S. Wilson.

Goddard Memorial Scholarship

The National Space Club is awarding a \$7,500 scholarship for the academic year 89-90 in the memory of Dr. Robert H. Goddard. The 1989 award winner will also be introduced to the nation's leaders in science, government and industry. The applicant must be a U.S. citizen, in at least the junior year, and have the intention of pursuing undergraduate or graduate studies in science or engineering during the interval of the scholarship. The deadline for applications is Jan. 6. For further information please contact the Financial Aid Office, 515 S. Wilson.

Interviews Are Coming!

Now is the time to do something about getting a job after graduation. On-campus interviewing for B.S. and M.S. students will begin Monday, October 31. The first sign ups for interviews went up on Monday. If you haven't turned in your recruiting questionnaire to get yourself put on the CDC mailing list for receiving recruiting schedules and other information, pick one up in the CDC office.

Find out about the numerous new companies coming to recruit on campus. Visit our company library to find out more information.

The B.S./M.S. Resume Book will be sent out to employers the beginning of December. Be sure to be included and take advantage of this wonderful opportunity to advertise yourself. Stop by to have a counselor go over your resume with you and answer any questions. The deadline for submission of your **ONE PAGE** resume is November 4.

Come in and talk to us about resume preparation, career counseling, interviewing—anything at all. The Career Development Center is located in 08 Parsons-Gates, or call x6361.

AT&T Bell Labs Interviews

AT&T Bell Labs will be conducting on-campus interviews on Thursday, October 27 for B.S. and M.S. students in EE or CS. Bring a resume with you and sign-up in the Career Development Center, 08 Parsons-Gates. Deadline for sign-ups is noon on Wednesday, October 26.

NSF Graduate Fellowships

The NSF Graduate Fellowship Applications have finally arrived. Pick up your copy at the Career Development Center, 08 Parsons-Gates. Deadline for entering the competition is November 14, 1988.

Fly High!

The Caltech/JPL Flying Club will be having a general meeting on Tuesday, October 25th at 7:30 pm in 269 Lauritsen. Anyone interested in flying is welcome to attend. For more information on the meeting or about the Flying Club, contact Jay Ebersohl at x6182.

Japanese Film Fest!

Free films! 2 films will be shown on Japanese music and dance—"Music of Modern Japan" and "Kabuki, Noh, Bunraku." Each film is about 30 min. long. When: Oct. 31, 1 pm. Where: 19 Baxter. Questions: Prof. Amy Catlin, x3614.

Discount Tickets!!

Discount tickets are available for the Western Americana Show. With the discount, admission will be \$4.25. Live performances feature Guns-Swords-Knives-Militaria-mountaineers and Wells Fargo Country/Western Music Festival. The dates for these events are Nov. 4-6 and Dec. 9-11 at the Los Angeles County Fairgrounds. The discount tickets have been placed at the Orange Walk entrance to the Student Activities Center, on the bulletin board marked SAC News.

International Student \$\$

The seventh annual International Student Scholarship Competition—a nationwide essay competition for international students studying in the U.S.—is now underway. First prize is \$1,500 to be used for academic or professional advancement. International Underwriters/Brokers, Inc., also will award \$350 to the International Student office of the first-place winner.

Deadline for the competition is December 1, 1988. International students interested in entering must submit an essay of no more than 1,500 words on the topic: "Important cross cultural clues are often found in humor. Compare humor in your country with humor as you find it in America. Include examples of humorous situations resulting from cross-cultural misunderstandings, either in the U.S. or on your first visit back to your home country."

Additional scholarships will be awarded for second place (\$1,000), third place (\$500) and five honorable mentions (\$100 each). The International Student Scholarship Competition is open to all full-time foreign students enrolled in a prescribed degree- or certificate-granting program at an accredited high school, junior college, college or university with in the U.S. Also eligible are students enrolled in an English training program who plan to pursue higher education in the U.S.

For additional information, rules and entry forms, write: Essay Competition Coordinator; DSD Communications, Ltd.; 10805 Parkridge Boulevard, Suite 240, Reston, VA 22091.

Bookbuilders West \$\$

Bookbuilders West is offering \$1,000 scholarships to students in their junior year who are interested in pursuing a career in the book publishing industry. Each scholarship recipient will also be eligible for participation in a summer internship program. The deadline for application is October 31, 1988. For further information, please contact the Financial Aid Office, 515 S. Wilson.

Amelia Earhart Memorial \$\$

The Zonta International Foundation is offering grants of \$6,000 each to qualified women for graduate study in aerospace-related science or engineering in memory of Amelia Earhart. The deadline for application is December 31, 1988. For further information, please contact the Financial Aid Office, 515 W. Wilson.

Engineering \$\$

The National Society of Professional Engineers is offering scholarships to undergraduate and transfer students who are pursuing a degree in engineering. The deadline for application is December 1, 1988. For further information please contact the Financial Aid Office, 515 S. Wilson.

Railway Engineering \$\$

The American Railway Engineering Association (AREA) is offering two undergraduate research fellowships for engineering students who have a potential interest in railway engineering careers. The fellowships are in the amount of up to \$4,000 each. The deadline for application is October 15, 1988. For further information please contact the Financial Aid Office, 515 S. Wilson.

Planetary Society Scholarships

The Planetary Society is offering five \$1,000 awards to students majoring in engineering and science. Awards will be made on the basis of scholastic achievement, a commitment to a career in planetary related science, and a written essay on a relevant topic. The deadline for completed applications is April 15, 1988. Mail-in cards for further information are available in the Financial Aid Office, 12-63 (515 S. Wilson, 2nd floor).

More Cross-country

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Next Week

Caltech hosts the three conference powerhouses Saturday. Occidental, Pomona-Pitzer, and Claremont are running at the Lower Arroyo Park tomorrow at 9:30 AM.

The only outcome in question for Caltech is how high can Jerri Martin place in the conference. She has beaten every runner from every conference team she has met so far. The only two she has not run against are Occidental and Pomona-Pitzer.

If you are interested in helping with the race, would like to see the top teams in the conference battle it out, or just want to cheer on the Beavers, your support would be greatly appreciated.

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