

Whoever Cleaned
the Office,

The CALIFORNIA Tech

Thank You!

Volume LXXX

Pasadena, California, Friday, January 5, 1979

Number 12

Come and See

Unbeaten Beavers

by Grant T. Yokum

Strong victories by the Caltech Hockey Club have already been reported in the *Tech* (over U. C. Irvine and Cal. State Northridge), leaving unreported the outcome of the Dec. 10 contest with Pierce, last year's league champion and powerhouse. The Caltech-Pierce competition of last season left Caltech at the short end of a 0-6-1 rivalry. However, a new story is revealing itself this year as evidenced by this recent news release.

(BP)† Pasadena, Dec. 10, 1978. Pierce, leading at the end of the first period by the score 2-1, fell victim to one of the nation's most serious concerns when they ran out of gas and allowed Caltech to outscore them 4-0 in the second period. Partially recovering in the final period Pierce matched Tech at one goal each and thus allowed the Beavers a 6-3 victory in this season's first meeting of the two teams.

The Caltech scoring was started by Norm Bobroff who scored 2 goals and was continued by Jean Pierre (a hot handle) Bardet (pronounced bar-day, as in happy hour extended) who collected three goals (a hat trick) and one assist. Being JP's first hat trick in this country, he showed some confusion as to the meaning of the term, and he was greatly embarrassed when he offered his hat to a pretty young lady on the sidelines and received a sharp slap in the face. Fred, *The Jet*, Culick was credited with the team's final goal. Assists go to Chris Friedman (2), Joe Minahan, and Andy Gellman.

After the game the *Jet* was heard bleeding in the dressing room, "The ref screwed me out of an assist on JP's second goal, just ask him!" Trying to calm him JP agreed, "Anything you say, Fritzie," but the *Jet* continued with his head dangling between his ankles, "How can I face my son. He has more points than I do. I have failed him. He may never speak to me again. Job!" All the team's sympathy and 40 cents bought Fred a cup of coffee.

As the hockey season moves into full swing this January and February, these three pre-Christmas victories leave the Beavers without the taste of defeat and with high hopes for repeated victories. Come to the next game this Sunday, Jan. 7 at 4:45 pm at the Pasadena Ice Apades Chalet, when Caltech will have a rematch with Pierce. **ADMISSION IS FREE!**

In other hockey news the hockey club budget has been cut this year and the increasing cost of ice rental has plunged the club into financial difficulties. In an effort to alleviate this situation the Pucksters have endeavored to produce a product that will sell like wildfire across the campus. To this end Hockey T-shirts have been manufactured and will soon be available. So, keep your eyes peeled for the Beaver T-shirts.

Beaver Press



Photo by P. Files

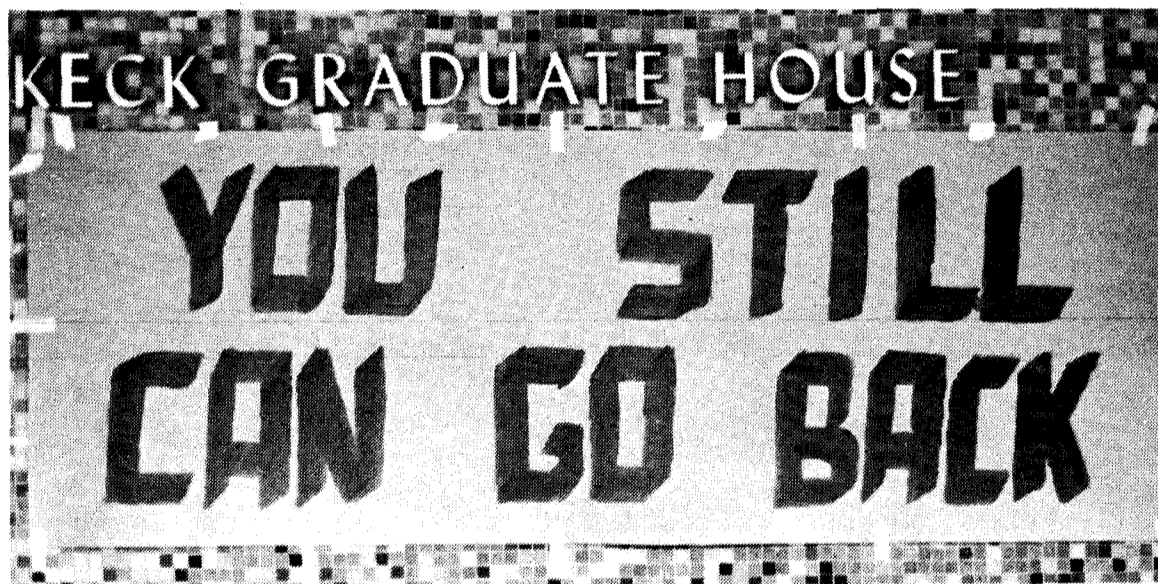


Photo by Alan Loh

NUFF SAID

An Open Letter to the On-Campus Readers of the *Tech*

It appears that the on-campus readers of this newspaper need to be reminded of just what the permissible and the non-permissible ways of getting a copy of the *Tech* are. For on-campus undergraduate members of ASCIT, the newspapers are delivered to the lounges of the houses, generally prior to noon of the date of publication. Some copies may be hand-delivered to members of the houses who are awake at the time of distribution, and some copies may be made available in the Coffeehouse. Your ASCIT dues pay for one copy of the *Tech* per week per ASCIT member, and you should, in general, pick up your copy in your house lounge.

For faculty and staff members, the Institute pays for subscriptions, and copies will generally be delivered to the mail drops in all buildings throughout campus in either the morning or afternoon mail on the date of publication. Faculty and staff members should pick up their copies at the appropriate mail drop.

Copies are available in Flora's office in Winnett for off-campus ASCIT members.

Graduate students and undergraduates not members of ASCIT should arrange for subscriptions with the circulation department of the *Tech* at the current subscription rates, payable either by check, cash, or quad form.

Copies of single issues for non-subscribers and extra copies for anyone are available in

Flora's office for \$.15/copy.

You should not: Remove any copies from the Student Publications offices without first consulting the circulation manager, as in general these copies are dedicated and possibly pre-sorted.

Pick up copies from a mail drop other than your own. If you do so, it will generally mean that someone with a subscription at that drop doesn't get his copy.

If you have any questions regarding the circulation of the *Tech*, please contact me. If you have any complaints, the solution of which will entail any significant amount of effort, please contact the editor and business manager of the paper and let them know that you want to do the circulation.

-Carl J Lydick

The Y and Your Support

Greetings, sports fans. The Caltech Y is once again after your money. The next ten or so days will be the Caltech Y fund drive.

Try and remember your last term bill. Lots of big numbers, with three or four digits to the left of the decimal point, huh? Well, there are these little bitty numbers, too, like your ASCIT dues, yearbook fee, gameroom fee, WATS line charges, etc. Do you ever really notice those? Probably not. And you probably wouldn't notice another one, either.

I'll touch base with you again soon, but keep us in mind, because "We're coming to your town next (week)". Your contribution can take the form of cash, check, or a little number on your term bill. With the latter, even a \$30 contribution (\$10 per term) can be relatively invisible and painless.

-The Caltech Y

Health Advocate Training Starting

Openings exist for a limited number of places in the student health advocate program. The training is based on a core course to be given at USC starting Feb. 6, which centers on first aid, CPR, health education, and crisis intervention. Applications will be processed this month and information meetings will be held at the Health Center lounge at 4:15 pm Wednesdays Jan. 10th and 17th. Further information may be obtained from Dr. Marlene Coleman or Bev Pray, Campus Liaison Nurse at x2393, or from current Health Advocates Warren Lai (x2078) and Richard Willson (x2173).

2 on K-2

On Thursday, January 11, at 8:00 pm, the Caltech Y will bring Jim Whittaker and Dianne Roberts to Ramo Auditorium for a multimedia presentation of slides and movies as well as a talk by these two mountaineers on "The Ascent of K-2." Jim Whittaker led the expedition up the world's second highest peak, and Dianne Roberts was the expedition still photographer.

Jim Whittaker is one of America's top mountaineers. He was a member of the first successful American expedition to the top of Mt. Everest, in 1963, and in fact was the first American on the summit. Whittaker led the expedition to K-2 early last year.

The expedition contained many of America's finest climbers. They all had extensive mountaineering experience worldwide, and one other team member besides Whittaker had been to the top of Mt. Everest. The 1978 expedition was the sixth by Americans and only the third successful one.

The Rivet Are Coming

Also Darbs, Scurves, Moles, Rudds, Lloydies, and Page Boys

Flems are People Too

Get to know a few

To the ed.

The recent interhouse antagonizations, most notably the tacking of the Fleming showers, point up one of the most serious drawbacks of the house system—the limited “people horizon”. As soon as Rotation is over and the frosh are moved, people befriend the 70–100 in their own house, while largely overlooking the “foreigners” from the other six houses. This tendency is not limited to a few houses. It is true of many people throughout all the houses. A vast pool of potential friends remains untapped. This is not good.

Worse yet, a common attitude inside the houses is that there is no one outside one’s own house worth knowing. ‘Outsiders’ are not judged as individuals, rather they are lumped into sub-human

herds. This is the sort of impersonal, indirect attitude which allows someone to perpetrate the sort of actions which cause physical harm to “some Flem”. If the perpetrator had known some Flems as friends (tricky, but possible), he/she/it might have acted more reasonably.

Meeting people from other houses is not very difficult. You’ll see them in classes (if you go), at lunch, at Interhouse sports events, at the ASCIT movie (advertisement), or wherever. Beyond coming in contact, however, you must make a conscious effort to expand your “people horizons” to include these people. They may not be as “foreign” as you think.

Jim Meador

Rolling Your Own on the Food Scene

Shopping at the supermarkets can be a puzzle. Even if one notices the advertisements in the paper, two stores are rarely advertising the same items, so it can be hard to compare them. A full index of current prices at all the stores might tell the story better, but it would be an exhaustive work, so here is my general impressions from my year’s experience of shopping in the area.

The *Pantry* is closest to Caltech and it appears to have a captive audience of the young (us) and the very old (Them). For whatever reason, its prices are the highest you can find in the area, unless you happen to be a wandering compuner who stumbles into *Jurgensen’s* by mistake. Some good features of the *Pantry* is that it usually has quality meat and good produce, but you have to pay a price for that. [Further point, and at times a vital one, is that the *Pantry* will cash checks on a Caltech ID. HOWEVER, they have, of late, been getting a large number of bouncing checks from Techers, and may have to change their check policy unless the situation improves.—ed.]

Market Basket, at Lake and Walnut, is about the next nearest. It is well stocked, but it usually has long checkout lines. I have written it off, though, because of several bad experiences with it. I am no longer willing to tolerate the rudeness of its staff. On one occasion, a checkout girl accused me (I am 19) of trying to purchase liquor. What I was actually doing at the time was loaning my friend (he is 21) the money to pay for it and he was going to hand the money to her. We walked out of the store without our groceries or booze. [If, however, you are stricken by an attack of the very-late-night munchies, the *Market Basket* is the only close market open 24 hours.—ed.]

Albertson’s at San Pasqual and Sierra Madre, is almost as near. The prices are not exorbitant and the staff is very friendly.

The *Safeway* store is at 2355 East Colorado Blvd. It has the widest variety of most items with exceptions being cheeses and processed meats. Its prices tend toward the high side, but often it has good prices for meat.

Last but, not least, I come to *Ralph’s* at 900 North Lake.

The Gypsy Good Place to go To

And Coffee You Can Chew

The Gypsy, 924 N. Lake.

It is a quiet small restaurant, with panelled walls, and the requisite dim lighting. The owner, a soft-spoken Lebanese, speaks of good food and caring about the way things taste rather than dragging people in with promises of entertainment.

And he is right. The food is Armenian, but not the greasy, highly spiced Armenian we have come to expect. There is a magnificent pilaf. The Kebabs are not overdone, and are gently flavored. The house oil and vinegar dressing is not filled with floating oregano, but with the touch of things we don’t even recognize, much less expect. Fresh vegetables abound. An occasional marinated onion appears as a garnish. The subtlety of tastes almost belies modification of recipes for the American palate, for I found none of the fiery spicing and heartburn that I have come to expect from Kebakians, but rather great enjoyment.

The mushroom kebab is highly recommended, as is the lule kebab, a meat roll with many things added. And of course, the Turkish coffee—thick and strong with a half an inch of residue at the bottom. The house kebab is one I have not yet tried, but the owner assures me that it is only for true lovers of the cuisine. Well, after a few exploratory romps, I think that I will soon fall into that category. (Low to moderate prices—dinner can be had for \$5.)

—J. Copeland

Overall, prices seem to be lower here and often it has special low prices on produce. Upstairs is *Zody’s*, a discount department store which is handy if you need some film, socks, dishes or a new frisbee. The drawback to this shopping combination is that the parking lot is the most dangerous of those I’ve mentioned. Also, once you are there, you are in the not-so-nice section of Pasadena. [i.e., fast food row.—ed.]

—Eve Bennett



The Party Life

“It does seem that Tech undergraduates are less socially active than persons in their age group attending colleges... shyness is a behavior trait of many Techers.”

“There is a lack of opportunities for socializing.”

“The social life at Caltech is as good as you would expect with the current female/male ratio. Horrible!”

“...everyone here is also totally immature. They spent all their time in high school studying instead of dating.”

—Comments from the recent poll of Caltech undergraduates.

Friday night. Friday night for me has always been getting together with the guys to see the ASCIT movie, get plastered, go to Tommy’s, play cards, drink more beer, go to the Coffeehouse, sit around and bullshit. Caltech is a strange school, and as far as I can tell this is the extent of the Caltech social scene.

Girls? Well, this is Caltech, and, with a very few exceptions, there doesn’t seem to be much socializing with girls at Caltech.

Parties? I have never been successful in meeting a girl at a Caltech party. If any show up, it is too easy to go up to the balcony in Dabney Lounge. I don’t know what to do at a party, anyway.

Nevertheless, I cannot be satisfied with this state of affairs. I’m sure that at least 85% of us know deep down that there really and truly are girls out there. And I am one of the 70% of those who is really bothered by the fact that he doesn’t know where a birthmark is on a single one of them.

You are reading the words of someone who has drunk too

much beer and seen to many 50-cent movies. Though I, as a typical Caltech troll, probably by real-world standards a social clod and a nurd, I prepared to seek out the fab Southern California blond.

So, starting this weekend, and every weekend for the next ten, I will try to live the Party Life and will describe my experiences in a weekly column. You and last I will learn if it is possible for J. Random Troll to survive the world of Joe Cool. My hope is to become a Joe Cool with brains, like in the movies, but can face the more likely prospect of at least some episodes of humiliation by knowing that they may make interesting reading in *The California Tech*.

If anybody has any ideas how to hunt down a party, let me know. [Drop a note in the Tech office.—ed.]

—Woody B. Sw

The CALIFORNIA Tech
Volume LXXX Marci Number 12
Friday, January 5, 1979
Published weekly except during examination and vacation periods by the Associated Students of the California Institute of Technology, Inc. The opinions expressed in all articles are strictly those of the authors and do not necessarily reflect those of the editor or of the corporation. All articles submitted become the property of the Tech. © 1979 by the Associated Students of the California Institute of Technology, Incorporated.

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The California Tech
Publications Office: 115 Winn Center 107-51, California Institute of Technology, 1201 E. California Boulevard, Pasadena, California 91125. Telephone: 795-6811. Editor—ext. 215. Business Manager—ext. 215. Printed by News-Type Service, Glendale, California. Second-Class postage paid at Pasadena, California.

Subscriptions
\$1.50 per term
\$4.00 per year
\$100 per life

THE CALTECH Y . . . fly by
Friday, January 5, NOON CONCERT with OFF THE WALL, an improvisational comedy group. Noon on the Quad. Bring Your Lunch.
Monday, January 8, LEADERS IN AMERICA SERIES presents WILLIAM F. BUCKLEY JR. speaking on “Some of the Problems of Freedom.” At 8pm in Ramo Auditorium. CO-sponsored by the Caltech Y and the Graduate Student Council.
Tuesday, January 9, NOON CONCERT with the MIT CHORALLARIES (Singing Scientists) at Noon, on the Quad. Bring Your Lunch.
AND READ THE FRONT PAGE !!!!

Interviews When & Who They Want

Aerojet Electrosystems Co.	All/EE, ME, Ph	21 Feb
Aero Products	All/EE, Ma, Ph	7 Feb
Aerospace Corp.	All/Ph, Ch, Ma, Eng	20 Feb
American Hospital Supply Corp.	BS,MS/ME, EE, Bi, Ch	16 Feb
American Microsystems, Inc.	MS/EE, Ph	1 Feb
AMOCO Research Center	All/ChE	5 Feb
The Analysts		25 Jan
Applied Physics Lab. Johns Hopkins Univ.	All/Ph	25 Jan

Continued on Page Three

ASCIT MOVIE
Friday Night Marci ASCIT Members 50¢
Baxter Lecture Hall Others \$1.00
7:30, 9:30, and 11:30

WOODY ALLEN
DIANE KEATON
TONY ROBERTS
CAROL KANE
PAUL SIMON
JANET MARGOLIN
SHELLEY DUVALL
CHRISTOPHER WALKEN
COLLEEN DEWHURST

ANNIE HALL


Next Week
SILENT MOVIE

From Page Two

ARGO Systems, Inc.		9 March
Argonne National Labs.		16 March
Beckman Instruments, Inc	BS,MS/ChE, Ph, ME EE	24 Jan
Bell Telephone Labs.	BS,MS/EE, ME, CS APh	17-19 Jan
BNR, Inc.	All/EE	25 Jan
The Boeing Co.	BS,MS/Eng	19 Feb
Bolt, Beranek & Newman, Inc.		1 Feb
C. F. Braun & Co.	BS,MS/ChE, CE	15 Feb
Burroughs Corp.	BS,MS/CS, EE, ME	6 March
Chemical Systems Div.	BS,MS/EE, Ae, ME	23 Feb
Chevron Corp.	All/ME, ChE	13 Feb
Cubic Corp.		18 Jan
Cummins Engine Co.	BS,MS/EE, ME	19 Jan
Data General	BS,MS/Eng	26 Jan
Department of the Navy		13 March
DOW Chemical USA	BS,MS/Ch, ChE	19 Jan
Earl & Wright Consulting Engineers		23 Jan
Emerson Electric Co.	BS/Eng	7 March
Energy Resources Co., Inc.		19 Jan
ESL, Inc.	All/EE	20 Feb
Exxon Research Development Corp.	All/ChE-BS/Eng MS/ME-PhD/Ch	23-24 Jan
Fairchild Camera & Instrument Corp.	BS,MS/EE, ChE, Ph Ma	8 Feb
Ford Aerospace & Communication Corp.	BS,MS/Eng	31 Jan
Ford Motor Co.	BS,MS/ChE, Eng	22 Feb
Garrett Airesearch Manuf. Co.	All/EE, ME	2 Feb
General Dynamics	All/Ph, Eng	14 Feb
General Motors Corp.	BS,MS/ChE, Eng	12-13 Feb
General Motors Corp. Technical Center	MS,PhD/Eng, ChE Ph, Ch	12-13 Feb
The B. F. Goodrich Co.	BS/Ch, ChE, Eng MS, PhD/ME, ChE, Ch	24-25 Jan
GTE Sylvania, Inc.	BS,MS/EE, CS, Ma Ph-BS/Eng	30 Jan
Harris Corp.		29 Jan
Hewlett Packard Co.	All/Eng	13 Feb
Hughes Aircraft Co. Research Labs	PhD/EE, ME, ChE Ph, MS, APh	16 Feb

Hughes Aircraft Co.	BS,MS/Eng, Ph	7 Feb
Intel Corp.	All/ChE, EE, CS	5 Feb
IBM Corp.	BS, MS/All Options	27-28 Feb
International Rectifier	All/ChE, EE, Me	2 Feb
Intersil, Inc.	BS,MS/EE-BS/Ph ChE, Ma	26 Jan
ITT-Telecommunications Technical Center.	BS,MS/EE MS,PhD/CS	19 Feb
Kaiser Engineers, Inc.		22 Jan
Kimberly Clark Corp.	PhD/Polymer & BiCh	26-27 Feb
Lincoln Labs.	MS,PhD/Eng	2 Feb
Lockheed-California Co.	BS/Eng-MS/Ae, EE Me	2 March
Logicon, Inc.	BS,MS/EE, Ph, Ma	15 Feb
McDonnell Douglas Corp.	All/ChE, Ch, Eng	9 Feb

Continued on Page Four



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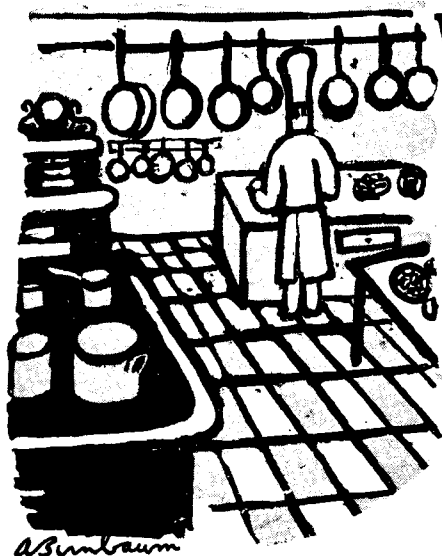
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House of the week **FLEMING**
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Attention Graduate Students: Tuesdays are Beer Days. Buy 1 pitcher, get the second one free!

From Page Three

Megatest Corp.	BS/Eng	31 Jan
Memorex Corp.	BS,MS/EE, ME, CS	5 March
Monolithic Memories, Inc.	Marci	30 Jan
Motorola, Inc. Scottsdale	BS,MS/Eng	14 Feb
Motorola, Inc. Ft. Worth		6 Feb
Motorola, Inc. Schaumburg	BS,MS/EE	18 Jan
NASA Ames Research Center	BS,MS/Ae, EE, Me	17 Jan
National Semiconductor Corp.	BS,MS/CS--MS/EE MS,PhD/Ph	8 Feb
Naval Ocean Systems Center	BS,MS/Eng	21 Feb
Northrup Corp.	BS,MS/Ae, ME, EE, Ph	6 March
Occidental Research Corp.	MS,PhD/ChE, Env Org. & PhyCh	7 March
Pacific Gas & Electric Co.		15 Feb
Ralph M. Parson Co.	BS,MS/ChE, EE, ME	23 Feb
PDA, Inc.	MS/Ae, ME, CS, Ma EE, CE	22 Jan
Physics International		16 Jan

Pratt & Whitney Aircraft Grp.	BS,MS/Eng	8 March
The Proctor & Gamble Co. Product Development	BS,MS/ChE, ME	22-23 Jan
The Proctor & Gamble Co. Manufacturing & Plant Mgmt.	BS,MS/CE, EE, ME ChE	23 Jan
Riverside Instit. of Research		29 Jan
Rockwell International	BS,MS/Eng	16 Feb
Schlumberger-Well Services		6 March
Siliconix	All/EE, Ph	1 March
Silicon Systems, Inc.	BS,MS/EE	8 Feb
Spectra-Physics		1 Feb
Storage Technology Corp.		23 Feb
Tandem Computers	All/EE, CS	26 Feb
Tektronix, Inc.	BS,MS/Eng	28 Feb
Texaco, Inc.	BS,MS/ChE--All/Eng	5 Feb
Texas Instruments, Inc.	BS,MS/CS, Ma, ME EE, Ph	22-23 Feb
Transaction Technology	All/CS	13 March
TRW	All/EE, ChE	21-22 Feb
TRW-VIDAR	All/EE, CS	1 Feb
USC Grad. Sch. of Bus. Adm.	All/ All Options	16 Jan
USC Grad. Sch. of Engrg.	All/ All Options	29 Jan
U.S. Air Force	BS/Eng	30 Jan
U.S. Navy-Officer Recruiting	BS,MS/Eng	5 Feb
Watkins-Johnson Co.	BS,MS/EE, Ph, APH	7-8 Feb
Westinghouse Electric Corp.	BS,MS/Eng	6 Feb
Weyerhaeuser Co.	All/ChE	26 Feb
Xerox Corp.	All/EE, ME, Ph	31 Jan

Marching Beavers
What does a marching band do when football season is over? Play at basketball games, what else! If you would like to join the Band, come to the first rehearsal Tuesday, January 9, in Beckman basement at 7:30 pm, and bring your instrument. If you can't make the rehearsal please contact Ken Shrum, 240 Ruddock.

MONEY!
The Consulting Engineers Association of California (CEAC) has announced its Third Annual Competition for undergraduates with scholarships in Engineering. Applicants must be U.S. citizens who are entering their junior or senior year in the fall of 1979 and are interested in consulting engineering as a possible career. CEAC awards one \$1000 and four \$500 scholarships, and two \$250 cash prizes. The deadline for submitting applications is January 31, 1979. Contact your Financial Aid Office in Dabney Hall, room 208, for application forms and for more detailed information.

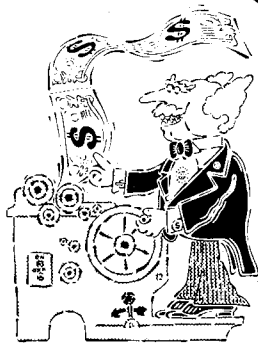
LOST
One National Semiconductor CMOS and Memory Databook and SC/MP Microprocessor Applications Manual. Contact Don Bacon, Lloyd House, x2180.

Marathon Flick
Anyone interested in running the Mission Bay Marathon in San Diego on Jan. 14 should contact R. C. Colgrove in Page.

Corrected Correction
Alumnus Stan Johnson, together with several people on campus, has developed the format for a Caltech Student Investment Fund. A similar fund at Scripps College was established by Stan's wife, Mary Johnson. A Fund at Occidental College was established by someone else who prefers to remain anonymous. It is in honor of Charles R. Blythe.

Postage paid at Pasadena, California. *The California Tech* is published weekly except during examination and vacation periods by the Associated Students of the California Institute of Technology, Inc., Winnett Student Center, Caltech 107-51, Pasadena California 91125.

UNLESS YOU PRINT YOUR OWN . . .



... it seems like a student never comes up with enough money to cover school expenses and have anything left over to just enjoy. If you're one of those people who has to spend too much study time earning school money, read on. Air Force ROTC offers a four, three or two-year scholarship for those who can qualify. The plan pays \$100 a month for expenses, plus all tuition, book costs and lab fees. While you're working on your degree, you're also working toward a commission in the Air Force. After graduation and commissioning, you'll enter active duty, and discover a whole new world. You'll find challenge, responsibility, a demand for your talents, and a high regard for what you're contributing. There's more. As an officer in the Air Force you'll have an excellent salary with a full slate of benefits. Look into AFROTC scholarships. And while you're at it ask about the Air Force way of life. You'll discover more than just a way to make your finances come out while you're in college. You'll discover a whole new world of opportunity. Caltech students can complete AFROTC at USC (741-2670), UCLA (825-1742), or Loyola (642-2770).



ENGINEERING/PHYSICS CAREER OPPORTUNITIES

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Sun. 2pm-12mid