

FOOTBALL?

Its
Fate Lies
With
the Students

A decision needs to be made. Is Caltech going to field a football team next year?

As many are aware, Caltech did not field a football team this season. Undergraduate interest in the football program was such that only fifteen students showed up for preseason training. This is far below the minimum needed, so the program was cancelled.

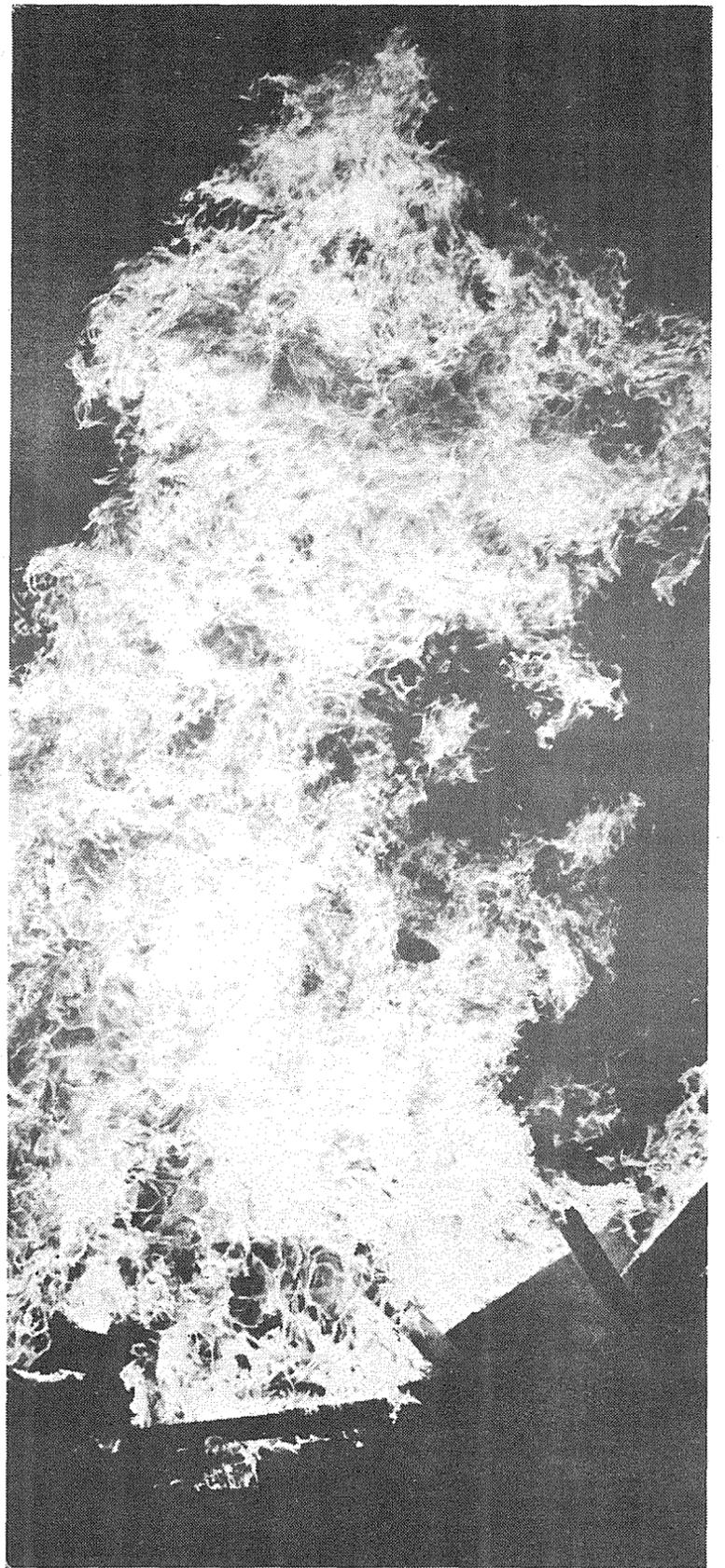
Undergraduate, extracurricular programs stay in existence based on the needs and interests of the students. It has come to the point whereby football needs a vote of confidence. It has been decided that Caltech will have a football team next year if enough students want to participate in the program. Due to department budgeting, a decision must be made soon.

To help make this final decision, a meeting is being called, asking anyone interested in playing football next season to be in attendance. This is a "do or die" situation. If you want to play football next year, it is important that you attend the meeting.

Thursday, January 12, at 4:30 p.m., Lecture Room 23, Gymnasium.

If a student is interested and cannot attend the meeting, please contact Coach Tom Gutman (ext. 2146) sometime before the meeting date. There must be a minimum of 25 participants in order to keep the program alive.

Caltech has had a football team since 1893. What about 1978?



Old Photos may soon be the only to
see Tech football and Bonfires.



Music, People, Plays, Places, and Things

Sunday, January 8—the Dabney Lounge Chamber Music Series resumes with a performance by the Pyramid Ensemble. Members of the ensemble include Jill Shires and Donna Hubregtse on flute, Julie Green on cello, and Patricia Mabee on harpsichord. Works of Bach, Couperin, Muthel, and de Caix d'Hervelois will be performed at this free concert beginning at 8 pm.

Thelma Moss, Ph.D., actor, play and screen writer, member of the American Psychological Association and of the Society for Psychic Research and Parapsychological Association, will appear in a Caltech Y sponsored lecture on Wednesday, January 11. The lecture is to be in Ramo Auditorium at 8 pm and is open to the public free of charge. The topic of the lecture is yet to be announced.

On Friday, January 13, the

Armchair Adventure Series of filmed travelogs continues in Beckman Auditorium. This month's adventure begins at 8 pm and the topic will be Israel, personally narrated by Clay Francisco. Limited seating is still available.

Saturday, January 14 at 8:30 pm the Pasadena Symphony Orchestra will make its first appearance of the new year. Conductor Daniel Lewis will lead the orchestra in Haydn's Symphony No. 99 in E flat and Stravinsky's Symphony in Three Movements. Solo pianist Emanuel Ax will appear with the orchestra in a performance of the second piano concerto of Rachmaninoff. The concert will be at Pasadena's Civic Auditorium, 300 East Green Street. For more information, call 793-7172.

Violinist Itzhak Perlman will appear this coming Sunday with the L.A. Philharmonic Orchestra

under the baton of guest conductor Calvin Simmons. Next week pianist Claudio Arrau will be appearing. Call the Music center for more information, or stop by the Caltech Y and see if they have any tickets left for these concerts.

Sunday, January 15 at 8 pm in UCLA's Royce Hall, Pianist Jeffrey Siegel will appear with Henri Temianka and the California Chamber Symphony in an all-Mozart program. They will perform the Divertimento in F, K. 247; the Concerto for Piano in E flat, K. 271; and the Symphony in G, K. 129. Call 658-8944 for more information.

The Broadway musical, *BEATLEMANIA* begins performances at the Shubert Theatre on Saturday, January 14th. It comes to Los Angeles complete with the original Broadway cast. Mitch Weissman (bass guitar), Joe Pecorino

(rhythm guitar), Leslie Fradkin (lead guitar), and Justin McNeill (drums) will re-create one of the most ambitious theatrical audio-visual productions to date.

BEATLEMANIA is a visual barrage and simultaneous performance combination of the

sixties with visual images spanning the era of JFK's last days as President through the Chicago Democratic Convention, Flower Power, Kent State and Viet Nam. Call 553-6009 for ticket information

—David B. Ritchie

In Memoriam

Mary Mundy

The Olive Walk

Over the last summer, The-Powers-that-Be, rammed through their plan to beautify the Olive Walk, and to keep students from parking on it. They seem now to have decided that driving, or even making deliveries on that immortal lane, is a no-no.

To that end, two "planters" and other hardware appeared, over vacation, in the end of the Walk.

Now the "planters" are not the big problem. I, personally, never cared for Early Concrete Modern, but at that, they match Throop Site. What I take exception to, are those pieces of pipe stuck in the ground.

To complain about preserving the "esthetics" of the Olive Walk, and then to set up such a visually offensive barrier smacks of stupidity at best, or of hypocrisy at the worst.

-ed. Bielecki

Thru the Rumor Mill

To the Editor:

One of the responses to my last letter made reference to my cowardice in not signing my name to what I write. This not too subtle jab caused me to pause and consider exactly why I had thought that an anonymous message would be more effective. I was forced to the unhappy conclusion that anything I said might not be listened to simply because I had said it. It occurred to me that mine was only a very minor case of the phenomenon of reputation-mongering in which a person's life can be strongly affected by what other people have been told about him. Reputations are powerful things and, in a school as small as Caltech, I believe we may have done several people a severe disservice by throwing their reputations around the way we do.

In the attempt to give advice or simply to make interesting conversation, we often give little "Flamers I Have Known"

anecdotes and repeat those that we've heard from others. In this way, a person's reputation can travel faster than he does. I personally, without any truly conservation-worthy attributes to my credit, have met my own reputation after it had circumnavigated the school; finally returning to its source. Some unfortunate people are forced to constantly follow in the wake of reputations others have made for them.

This situation is harmful to many people because a person reputed to be a jerk is treated as such and given little chance to prove himself otherwise. A person can thus be trapped in a role not of his own making; his relations with those around him poisoned; and his life made generally unpleasant.

People should be allowed to make their own reputations. Everyone (eventually) becomes known for exactly what he is, so nothing would be lost in the elimination of the reputation

Continued on page 3

The CALIFORNIA Tech

Volume LXXIX Number 16
Friday, January 6, 1978
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 the views of the editor or of the corporation.

Editor in Chief
Ed Bielecki

Business Manager
Kevin Drum

Writers
Pam Crane, Spencer Klein, Mike Kurilla, Sandy McCorquodale, David Ritchie, Mark J. Rosker, Steven Sawkins, Geoff Sommer, Brett Stutz, Bert Wells, Richard Willson

Photographers
Dave Wheeler [Darkroom Chairman], Don Bacon, Joe DiGiorgio, Al Kellner, Chris (Z 28) Wheeler

Production
Flora Boyer, Nick Smith

Circulation
Carl Lydick [Manager], Bill Gould

The California Tech publications offices are located in Winnett Student Center (107-51), California Institute of Technology, Pasadena, Ca. 91125. Telephone: 795-6811, Editorial-ext. 2153, Business-ext. 2154. Printed by News-Type Service, Glendale, Ca. Second-class postage paid at Pasadena, Ca.

Subscription rates: Term-\$1.50, Year-\$4.00, Life-\$100.

We cordially invite Caltech students and faculty members to bank with us.

Complete banking services including:

- Automobile Financing
- Bank-By-Mail
- Certificate of Deposit
- Checking Accounts
- Collateral Loans
- Drive-In Banking
- Escrows
- Foreign Banking
- Letters of Credit
- Home Modernization Loans
- Life Insurance Loans
- Money Orders
- Night Depository
- Personal Loans
- Real Estate Loans
- Safe Deposit Boxes
- Savings Accounts
- Travelers Checks
- Trust Services
- U. S. Bonds

Auto Banking Center at Colorado and Catalina Office, 1010 East Colorado and Citizens Commercial Trust & Savings Bank of Pasadena, hours: 9 to 4:30 daily; 9 to 6 Fridays

PASADENA
Head Office: Colorado and Marango
Colorado and Catalina Office: 1010 E. Colorado

LA CANADA
La Canada Office: Foothill and Beulah

Citizens Commercial Trust & Savings Bank of Pasadena

MEMBER FEDERAL DEPOSIT INSURANCE CORPORATION MEMBER FEDERAL RESERVE SYSTEM

A Letter on Tech, Science, & Living

To the Editor:

I want to tell a story about myself which I think is relevant outside its immediate context and which I would like to share. It has occupied and obsessed me enough that I hope it may be of interest to others.

I was raised in a fairly traditional manner, trained early to act along typically feminine lines. Any aggressiveness I displayed was firmly curbed. By various subtle means I was taught which emotions are OK to feel and which are not OK, and that passivity is desirable over activity.

I progressed into early adolescence traumatically. At age 13 I saw little logic to or basis for my social environment and I felt stifled and defeated by a continual sense of guilt. I saw nothing to lose by rebelling openly against either or both. The forcefulness of emotion I displayed and dramatized during this time culminated, not to my disappointment or surprise, in my being sent to a mental hospital for three months.

I appreciated and enjoyed the honesty of this experience. I had rebelled in an undisguised and candid manner against a subtle and insinuating process of guilt indoctrination. I forced a non-trivial, if unresolved, confrontation between people's absurd and self-destructive (I felt) expectations of me and my awakening sense of identity.

After this I progressively withdrew from the outside world. I spent my last two years of high school with essentially no social life, delving with an increasing interest and obsession into any and every math or physics book I could find and within reason understand. During this period I developed a fair amount of mathematical sophistication although physical sophistication I proved more resistant to. I thought I loved physics but any intuitive approach to a problem disconcerted me. I graduated a year early and sailed into Caltech with a fear approaching horror of interactions with other people yet with a powerful sense of identity.

At Caltech I reawakened to the world, and it to me. For essentially the first time in my life, and not from lack of previous effort, I managed to impress people with something other than my cuteness and shyness. In fact, Caltech undergraduates, in their abysmal ignorance of the proper forms of behavior towards females, committed the inexcusable sin of treating me as one of themselves; the most exhilarating feeling I ever experienced.

I was a frosh and sophomore between '73-'75, during which time I experienced what might not inaccurately be called a progressive nervous collapse. I went on leave for two years,

remaining in the Caltech area and trying to sort out and rebuild my life. I have recently returned as a junior.

I have always felt scientific and intellectual inquiry to be the most fundamental of my needs. Certainly they have evoked a greater passion in me than has anything else. It wasn't over discrimination which prevented or discouraged me previous to Caltech from developing many scientific interests but rather the ubiquitous attitude that they were and would continue to be at best unnecessary to me. This attitude I found stifling and impossible to learn productively in conjunction with. Consequently until coming to Caltech I had little conception of the existence and no conception of the value of personal interaction in the learning of science or in the conducting of scientific research.

I did satisfy my incipient passion independently, with no help and with very little guidance. I read a lot of mathematical and physical theory, I thought a lot, I learned a lot and I solved lots of problems. This is most of what my life consisted of for two years; all else, seemed pointless by comparison. I enjoyed these activities immensely.

The novelty to me of the Caltech environment is the candid acceptance of scientific

Continued on page 3



ARE YOU EASILY IMPRESSED?

Today's problems are complex, the search demanding. Los Alamos Scientific Laboratory is committed to the concept that America's greatest resource lies in its people.

Los Alamos is not looking for employees with assembly-line imagination, but those who will dare to question the obvious, and reach for dreams yet undreamed.

Our special search is for innovative, safe sources of energy created through our Laboratory's brainpower: energy alternatives such as

- Laser Fusion
- Magnetic Fusion
- Geothermal
- Solar
- and others still in the conceptual stage

It's your future! Make your mark with us.

Los Alamos representatives will be conducting interviews Thursday and Friday, January 19-20, 1978 at the Placement Office, Dabney Hall Building 8-40, or write to:

Los Alamos Scientific Laboratory
Recruiting Division
P.O. Box 1663
Los Alamos, New Mexico 87545

los alamos
SCIENTIFIC LABORATORY
OF THE UNIVERSITY OF CALIFORNIA

An Affirmative Action/Equal Opportunity Employer, Women, Minorities, Veterans, Handicapped Urged to apply. U. S. Citizenship required.

Cancer is often curable.

The fear of cancer is often fatal.

If you're afraid of cancer...you're not alone. But some people are so afraid that they won't go to the doctor when they suspect something's wrong.

They're afraid the doctor might "find something." This kind of fear can prevent them from discovering cancer in the early stages when it is most often curable.

These people run the risk of letting cancer scare them to death.

American Cancer Society

Continued from page 2

Rumors

grapevine. Further, comments I've heard such as "The one good thing about rotation is we won't get blank in this house!" or "Stay away from blank. He'll screw anything that carries a purse!", although entertaining, can cause the gossipees much undue grief. Finally, information whispered behind backs has a tendency to divide people against each other. So, an end to reputation-mongering could not only brighten the lives of those directly affected but could also benefit each one of us by making the Caltech community a friendlier place to live.

A Frosh

Wimpy Waiters

To the Editor:

(In response to the article about women at Caltech, signed "A Frosh")

Writing a letter and not signing your name to it is like the waiters in the undergraduate houses, WHIMPY!!!

Kurt English

Continued from page 2

Tech and Living

inquiry as a basic human need. This I identified with immediately and irrevocably. I have never felt as great an affinity to my environment as I do here.

The strength of this attachment caused me to feel insecure as to my right to be here. No previous experiences had suggested to me the existence of an environment such as this, a sanctuary if you will, much less the possibility of my belonging in it. I resolved to solve this in the same manner as I'd assured my entrance into Caltech and in the only manner I knew how, which is to overachieve so tremendously as to place the matter beyond doubt.

What I wasn't prepared for was the qualitative difference between Caltech's demands of me and previous ones. As far as math or science is concerned, the only interactive elements of my education from tenth grade onwards were my infrequent tests. The intrinsic personal interactivity of the Caltech program I reacted to as one long semi-continuous testing period. Due to my perpetual nervousness my powers of concentration dropped so low that the only reason I didn't flunk out during my frosh year was that the harder material of my courses was review to me.

It was obvious that I was functioning at best well below my capabilities and at worst simply inadequately. Though I never flunked out, by winter of my sophomore year my emotional state had deteriorated to the extent that I took a leave, thus vindicating my worst fears that I didn't belong here after all. Since by implication this meant that I belonged nowhere, I remained in the area to deliberate what it was about me and my past which made it so impossible to adjust to an environment so *a priori* compatible with my deepest needs and desires.

The past two-and-a-half years I have spent catching up on a

maturity and an attitude towards science I hadn't previously found possible much less necessary or desirable to develop. It's hard for me to accommodate the contrasts and contradictions I've been faced with, harder still to arrive from them to a coherent and consistent self-image to strive towards. The encouragement and supportiveness of the Caltech environment contrast absurdly with the stultifying attitudes and behavior I've encountered at home and elsewhere.

My motive for writing this has been to justify in the briefest manner my feelings and actions for the past few years. Too often since coming to Caltech I have been embarrassed by feelings unreasonably intense and/or inappropriate to the situation, forcing a reevaluation of my entire system of judgements. While I can't eradicate all doubt as to my continuing sanity or

discretion, I hope that by way of writing this I lend credence to their existence.

I publish this here in part as a limited attempt to repudiate a society which, excepting Caltech, has consistently discredited and debased my most heartfelt needs and desires. If anyone has any responsible reactions to what I've written I would be interested in hearing them.

Judy Powelson

Y Not Go Sking

The Caltech Y is sponsoring a ski-trip to Mammoth for January 13-15. The \$27 cost includes food, room, and transportation. Sign-ups and further information at the Y office. Slots are available for only 14 skiers, so a lottery will be held Tuesday afternoon, January 10.

CLASSIFIED ADS

IMMEDIATE OPENING for a sharp, energetic individual with proven interpersonal skills to represent a leader in the travel industry. No direct sales; 20 hours per week; starting Jan. 1. We are looking for a winner — with a proven record of integrity, personal stability, and community involvement. Your self-initiative will be recognized and rewarded with an excellent incentive program. Hard work along with intelligence and innate sales know-how are the ingredients for the well-paid part time position. Call toll free, 1-800-821-2270, ext. 510, 24 hours.

PROFESSIONAL TYPING by experienced executive secretary. IBM Selectric correcting. Clean, well-displayed work. Specializing in theses, reports, resumes, Mss., etc. Fast, reasonable. Phone 441-1410.

CONTACT LENS WEARERS: Save on brand name hard and soft lens supplies. Send for free illustrated catalog. Contact Lens Supplies, Box 7453, Phoenix, AZ 85011.

FOR SALE: Air ticket, L.A. to London (U.K.). March 25. \$100. A bargain if ever there was one. Mark Cronshaw, Caltech 23-41, X1670.

ADDRESSERS WANTED IMMEDIATELY! Work at home — no experience necessary — excellent pay. Write American Service, 8350 Park Lane, Suite 269, Dallas, TX 75231.

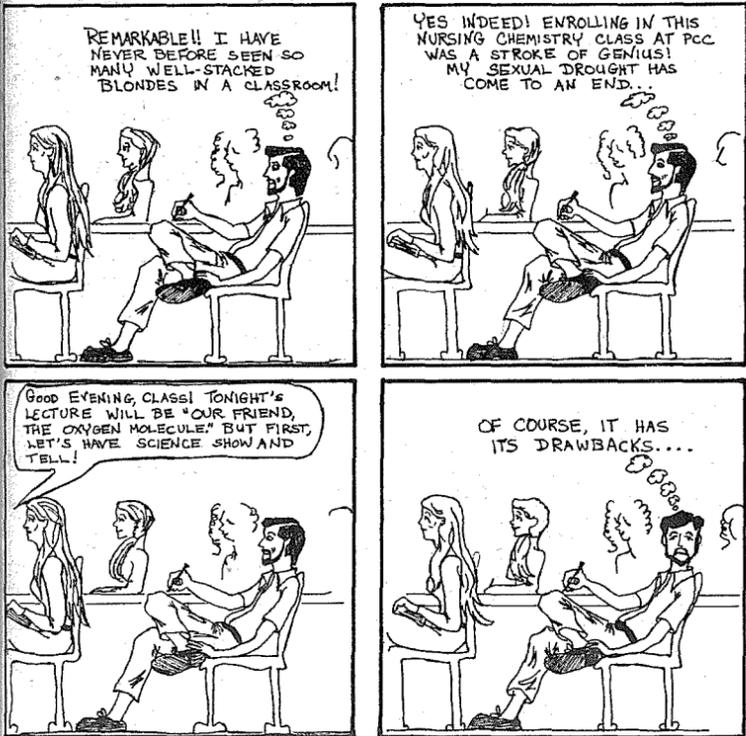
FOR SALE: Vivitar 200-mm Telephoto Lens, f 3.5. Pentax mount. \$50. Kerin Thompson, 449-9769.

For scientist-musician couple, no children or pets. 29 Jan.—18 March 1978. Write or call: Dr. P. Rhines Woods Hole Oceanographic Inst. Woods Hole, MA 02543 617-548-1400, ext. 547 Or call A. Ingersoll, Caltech ext. 2167.

Engineers Wanted for Nuclear Navy

If you have the ability and desire to master nuclear engineering, then look into the Navy's Nuclear Propulsion Program. There are openings for about 200 outstanding college graduates. A Naval Officer will give you all the details on how you can become Someone Special in the Navy. Contact: Lt. Jay Munninghoff 4727 Wilshire Blvd. Los Angeles, CA 90010 Call Collect: 213-468-3321.

by P.M.



Caltech's Burger Continental .. is gonna make you an offer you can't refuse

Discount cards now only \$7.50

Division of the Week: Geology and Planetary Sciences

Free root beer float on weekends for faculty and students of Division of the Week with purchase of meal. Different division each week

SPECIALTIES

SHAORMA, SOUVLAKI—STEAK DELICACIES BAKLAVA, BOURMA—ARMENIAN PASTRY DESSERTS FALAFEL—VEGETABLE BURGER WITH DELICIOUS SAUCE WRAPPED IN BIBLE BREAD

SPECIAL SERVED EVERY NIGHT: USUALLY STEAK OR PRIME RIB, RICE PILAF, SALAD, VEGETABLE, AND REFILLS ON SOFT DRINKS AND MILK

BURGER CONTINENTAL 792-6634

LOCATED ON LAKE 1/2 BLOCK NORTH OF CALIFORNIA

All The News

That Fits

The Gamers Are Back!

There will be a World War II period naval miniatures game in Dabney Hall Lounge on Saturday, Jan. 7, at 7:30 pm.

Also, there exist quantities of D&D and other fantasy games in Clubroom 1 of Winnett Center on Friday and Sunday nights at 7:30 pm.

Beginners or experts welcome for all games.

Sick Of American Movies?

Chinese movies with English subtitles are to be screened by the Caltech Chinese Student Association at Baxter Lecture Hall on Saturday, Jan. 7, at 7:00 pm.

Educated Derelicts

BS, MS CANDIDATES: The placement Office has organized a Seminar for you on "How to Approach Getting a Job." If you are interested in seeking employment after graduation and even if you are not, the Seminar is two hours well spent towards your future. The Seminar will be held January 12, 1978, from 4:00 pm-6:00 pm, in Room 153 Noyes. All interested students are welcome.

No Mud

The Mudeo has been put off a week until Jan. 15.

Speed Read War & Peace

Free introductory speed reading lessons will be given in Clubroom one, at 7 and 9:30 pm on Jan. 10, 12, 16, 17, and 18.

Nurse, The Scalpel

The Beckman Political Internship is again available. Applications must be in to Carman in 210 Dabney by Feb. 3, and she is also the person to see about questions and forms.

Clip and Save Trans Tuneup \$25.00

PASADENA TRANSMISSION

26 N. Hill Ave. 792-6104 Member BBB

Get Our Price And Guarantee Before You Buy!

PASSENGER CARS — 2 YEAR OR 24,000 MI. WARRANTY
Price Includes Installation

ALL CHEV. POWER GLIDES 63-76	\$180
ALL GENERAL MOTORS TURBINE 300 64-69	\$190
ALL GENERAL MOTORS TURBINE 350 & 400 64-76	\$225
ALL C-4 FORD/MERC (SMALL CARS) 64-76	\$195
ALL C-6 FORD/MERC (LARGE CARS) 66-76	\$225
ALL CHRYSL. PRODUCTS 6 CYL. 62-76	\$195
ALL CHRYSL. PRODUCTS 8 CYL. 62-76	\$225
ALL AMC PRODUCTS 62-76	\$225
ALL SEALED TORQUE CONVERTERS Amer. cars	\$68

CALL FOR FOREIGN CAR PRICES, FREE ESTIMATES TAXES & FLUID EXTRA. FINANCING AVAILABLE. FR WHEEL DR NOT INCL SE HABLA ESPANOL

Jan. 6 BERT SOMMER BAND
MURRAY CAIN

Jan. 7 TETS

Jan. 8 NEW WAVE MUSIC NIGHT

Feb. 2-4 PETER HAMILL

DOUG WESTON'S World Famous

Troubadour

COCKTAILS • DINNERS • HOOT MONDAYS • NO AGE LIMIT

9081 SANTA MONICA BLVD., L.A. 276-6168

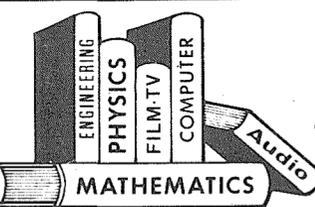


THE HAIR CUTTERS

HIS AND HERS
OPEN EVENINGS

449-6967 449-1022

1009 E. COLORADO PASADENA
NEXT TO THE ACADEMY THEATRE
PARKING IN REAR



OPAMP/ TECHNICAL BOOKS

WE STOCK:
COMPUTER
AUDIO-VIDEO
R-TV-FILM
ENGINEERING
RECORDING
ARCHITECTURE
CIVIL SERVICE
ASTRONOMY
ENERGY-
POLLUTION
OPTICS-LASER
FIX-IT-SAMS
SCHAUMS-KEN
ARGO-TAB
MAGAZINES
ETC.

1033 N. SYCAMORE AVE. HOLLYWOOD, CA. 90038 (213) 464-4322

1 blk E. of La Brea — 1/2 blk S. of Santa Monica Blvd.
Hours—12 Noon-5:30 P.M. Monday thru Saturday
(213) 464-4322

B of A/Mastercharge honored Computer & Audio Store on premises

THE ASCIT FRIDAY NIGHT MOVIE

Breakheart Pass

7:30 p.m. & 9:30 p.m.
in Baxter Lecture Hall

ADMISSION: 50¢—ASCIT members
\$1.00—anyone else

NEXT WEEK
Rocky Horror
Picture Show



Texas Instruments

TI 51-II

\$48.95

TI 57

\$63.40

coupon sale

DEMO TODAY 10-3pm

Howard Norton, Texas Instrument College Market Sales Engineer, will be on campus today between 10AM and 3PM in front of the bookstore. His main purpose will be to demonstrate and answer questions regarding TI full line of calculators. The entire college community is encouraged to take advantage of this opportunity.

\$5.00 off

THIS COUPON ENTITLES THE BEARER TO \$5.00 (FIVE DOLLARS) off THE ALREADY LOW PRICE OF THE TI 51-II OR THE TI 57. COUPON IS GOOD ONLY AT THE CALTECH BOOKSTORE. EXPIRES FEBRUARY 1, 1978.

CALTECH BOOKSTORE