All the News..

The California Tech

that's print to fit

VOLUME LXXXIX NUMBER 11

PASADENA, CALIFORNIA

IDAY 8 JANUARY 1988

Beckman Institute Displacement

by David Lipin

Thirty-eight students were relocated to other homes last month so construction could begin on the new \$35 million Beckman Institute.

The Beckman Institute will be a new facility for biochemistry research or, more specifically, interdisciplinary research on the interface between biology and chemistry. The Institute's first Director will be Professor of Chemistry Harry Gray.

Dedication of the Beckman Institute is scheduled for October, 1989, so groundwork is beginning immediately. One of the first stages of construction will be to remove the houses which currently occupy the land on which the Institute will be built. A total of 16 houses will have to be removed: 5 on Constance, 5 on Wilson, 4 on Lura, and 2 on Michigan.

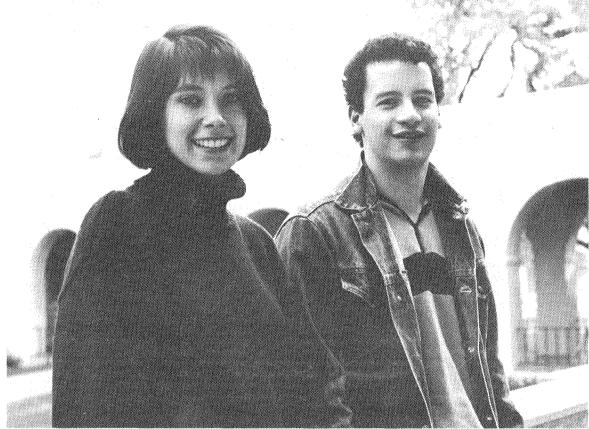
Rather than demolish the houses, Caltech is offering them for relocation free-of-charge. Advertisements have been placed in

the Los Angeles Times and the Star News. Caltech has received between 40 and 50 responses from interested parties, of whom they estimate only 10 to 15 will have the proper qualifications.

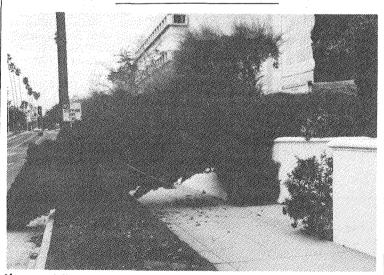
Even though the houses are free, acquiring the proper qualifications is rather expensive. To be qualified, the party must have a plot of land for the house, proper moving permits, a professional relocation contractor, and an architect/engineer to oversee any necessary disassembling and reassembling of the house. The party must also sign a contract releasing Caltech from any liability involved with the transaction. Houses not removed by April 1st will, however, be demolished.

Two houses will remain on the block being cleared for the Institute. One of them is the Environmental Quality Lab, and the other is the Tolman-Bacher House, which will become the residence of

continued on page 2



If you had to drop AMa95, whom would you rather have sign your drop card? Assistant Dean Marda Collett, on left, arrives in Pasadena to guide and inspire the students of Caltech. Senior Class President Rich Arrieta listens in.



If a tree falls at Caltech during vacation, whom does Housing charge?

photos by Steve Lodge

Collett Found in Dean's Office

by Stephen Lew

If the urge to stop by the Dean's office to have an add/drop card signed hasn't overcome you yet, you may not have noticed that there is a new face in the Assistant Dean's office. With Jeanne Noda on sabbatical until July 4th, Marda Collett ("pronounced like wallet") will be filling in as Assistant Dean.

Marda Collett recently moved to Southern California from the East Coast where she held a position as the Assistant Dean of Admissions at Amos Tuck School of Business Administration of Dartmouth College in New Hampshire.

Though she will be here only temporarily, Marda is well qualified for the position. She received her Master's Degree in Educational Administration from Harvard and was the Assistant Dean at Wheelock College in Boston.

Small institutions appeal to Marda. She graduated from Colby, a small college in Maine. Wheelock and Amos Tuck both have small student populations.

On the honor system, "I've been at schools that have honor systems..., but I am impressed by how enthusiastic everyone is..." As for Caltech, she likes it so far and is intrigued by what Gary and Jeanne have told her. "[Caltech] gives me an opportunity to work with a new type of student." Her previous appointments had dealt primarily with business and liberal arts students.

If you have some time, stop on by the Dean's office. "I'd like to meet as many students as possible," says Marda. For those of you wondering, Marda can sign your add/drop cards and the various and sundry petitions just like Jeanne or Gary. "You'll have to bear with me, ...I just started on Monday."

Marda has a husband, Tom, whom she met at Dartmouth. Tom is a Financial Analyst for Arco. They live in Recondo Beach.

Amazing Jeff Wants New Blood

by Jeff Tekanic

Well kids, believe it or not, it is time for ASCIT elections again. This time, however, instead of just a single office or a recall up for election, we are going to wipe the slate clean and replace everyone. That is right, it's what you have been waiting for...the '87-'88 ASCIT Board of Directors "Going out of Business" elections.

For those of you who are unfamiliar with the procedure for ASCIT general elections (and are too lazy to look it up for yourself in the ASCIT by-laws in the *little t*), here is a brief summary of what is going to happen:

The elections for ASCIT President and Treasurer are held first, with the general election two weeks later. The offices on the general ballot include ASCIT Vice-President/Board of Control Chairman, ASCIT Secretary, IHC Chairman, Upperclass Director-at-Large, Freshman Director-at-Large, Director of Social Activities, Athletic Chairman, Activities Chairman, Board of Control Secretary, and California Tech Editors. A description of all these offices, as well as the names of the current officers, can be found in the *little t*. Feel free to contact either myself (x6236) or any of the ASCIT officers if you have any

questions.

For those of you who are still interested, the schedule for nominations and elections is as follows:

1) Nominations for ASCIT President and Treasurer will open Wed., Jan. 13 and close Tues., Jan. 19. The election will be held two weeks from today). The nomination procedure consists of turning in a signed statement to Eric Scharin, ASCIT Secretary, 1-53, and putting your name on the ASCIT election sign-up sheet on the Master's door. Those who have their act together can get a personal statement published in the Tech in either the Jan. 15 or Jan. 22 issue if they submit them by Jan. 13 or Jan. 20, respectively.

2) Nominations for the general election will open Wed., Jan. 27 and close Tues., Feb. 2. The election will be held Feb. 5. These candidates will also have the option of submitting a statement to the *Tech*. They are due the Wed. before each issue.

If anyone has any interest or questions, contact me or stop by one of our weekly ASCIT meetings (Tues. nights, 10 pm, Master's office) and see the ASCIT political machine in action. Once again, thank you for your support.

Caltech Tele Garners Awards

[CNB] – The Mechanical Universe, an introductory college-level physics telecourse, has been awarded a prestigious international award, and an episode of Beyond the Mechanical Universe has been honored with an audio-visual information industry award.

Last month in Tokyo, one of the 52 programs in *The Mechanical Universe* series won the top prize in the 16th Japan Prize International Educational Program Contest. Also this fall, an episode entitled "The Atom" was awarded the Silver Cindy award, an Association of Visual Communicators honor that is considered to be the Oscar of its industry.

"The Lorentz Transformation"

episode was chosen as the recipient of The Japan Prize, which is presented by NHK—the Japan Broadcasting Corporation. The contest, held every two years, seeks to promote the advancement of educational broadcast programming around the world as well as to foster greater cooperation among nations. It is also widely regarded as the only international competition established specifically for educational radio and television programming.

"The honors for these two

The honors for these two episodes underscore a growing appreciation for *The Mechanical Universe* and its successor, *Beyond the Mechanical Universe*," says David L. Goodstein, vice provost and a professor of physics and ap-

plied physics at Caltech. Dr. Goodstein, who is the creator of the telecourse, adds that "The programs are playing a significant role in the quiet revolution that's going on in televised higher education."

On a dozen occasions the TV industry has honored *The Mechanical Universe*, which was first broadcast in the fall of 1985, and *Beyond the Mechanical Universe*, which was first aired last spring and will be rebroadcast on Fridays at 6 pm on Channel 58 in Los Angeles beginning February 19. The programs, sponsored by the Annenberg/CPB Project and co-produced by Caltech and Southern California Consortium, have been telecast on more than 100 stations across the country.

1. The ASCIT copier is for anyone's use. The copicards still cost money though, so please place them into the spent card box next to the machine when they are exhausted and do not throw them

2. Nominations for ASCIT president and treasurer open on Wed., Jan. 13 and close Jan. 19th. Elections are on Fri., Jan. 22, and a runoff, if necessary, will be on Tues., Jan. 26.

Nominations for the rest of the elective offices open Wed., Jan. 27 and close Tues., Feb. 2. Elections are on Fri., Feb. 5, and the runoff Installations are on Tues., Feb.

Interested undergraduates should sign up on the door of the Master's Office and send a signed nomination to Eric Scharin, ASCIT Secretary, 1-53.

3. ASCIT has big bucks - Thu estimates over \$20,000. Eric wants a PA system for ASCIT, Thu suggests another vehicle, and Amazing Jeff wants a BOD trip to Rio.

4. Jason Stewart wants \$270 to help pay for an instructor for the ballet club. With ASCIT's newfound wealth, the board graciously gives Jason the money.

Free Food for thought

by Richard Reid

We interrupt this column to bring you up to date news on a matter of great importance to you undergraduate students at Caltech: the TQFR replacement process is beginning

Jeff Tekanic, Jeff Flint, and I are ready and willing to put a lot of time and effort into this project. Past requests for assistance have produced little or no response from students, so if you have a few good ideas and/or wish to help, but were afraid of being trampled to death by the hordes of eager volunteers rushing to us, take heart. We still

need your ideas and opinions, and your help.

Your contribution is important, so get in touch with us. There will be a meeting today, Friday, at 5 pm in front of the MOSH's office.* If you cannot make it to the meeting we can be reached individually: Jeff Tekanic, x6236; Jeff Flint, 578-9755; Richard 578-9219, or together at the ASCIT BOD meeting Tuesday night in the MOSH's office. Thank

Rumor has it that donuts will be available at this time.

Beckman, cont.

the Director of the Beckman In-

The houses that need to be removed were until recently part of the Caltech housing pool. There were 19 undergraduates, 18 graduates (not including 2 spouses and 2 children), and one post-doc relocated to other housing at the end of first term this year.

All of the displaced people moved to other Caltech housing. Some of the undergraduates moved into Catalina I (a graduate-student housing complex), some into the Associate Master's apartment at 1170 Del Mar, and the rest moved to other spaces which opened up during first term. The undergraduates living at Catalina will have to pay their old rates instead of the higher Catalina rent.

This creates a point of controversy which has not yet been resolved: Catalina I, like most of the graduate-student complexes, must pay for its own maintenance out of the rent collected from its residents. The graduate students believe that someone should make up the difference between what the undergraduates are paying, and what the Catalina I rent is. The housing office states that, since the apartments would otherwise be unoccupied, any increase in income is advantageous, so the difference in rent is therefore not an issue.

Another unresolved issue is the rent which the relocated graduate students must pay: the graduate

Del Mar Lura 370 ഗ 376 Constance site of the drawing by David Lipin Mead Noyes

The brand-new Beckman Institute will be located just north of Noyes Laboratory. This venture will support interdisciplinary research between biology and chemistry under the direction of Professor Harry Gray.

students moved to other graduate housing, and must currently pay the going rent at their new locations, whether or not the rent is higher than at their old houses.

Phone service and monthly (local) charges will be paid for by the housing office for any of the relocated students who previously had campus extensions but do not have them at their new homes.

letters to the editors

Apathy Rules

To the Editors:

Some might say there are no differences between students at UC Berkeley and Caltech. Both come from diverse backgrounds, have high academic standards, conduct research at the frontiers of science, live up to school traditions, etc...

After graduating from Berkeley and beginning to work here, I have noted some marked differences despite the many similarities. The most striking difference, in my opinion, is the degree of social consciousness at UC Berkeley that Caltech lacks. Agreed, Berkeley has more than 30,000 students, and Caltech only around 2,000, but Berkeley has an unparalleled history of social and cultural awareness.

Sproul Plaza teems with students promoting various movements and organizations and even today echoes the chants of students demonstrating against racism, Star Wars, or Contra Aid. The most controversial article I have read about in the Tech was about shopping carts flying off the roof of Page House in the middle of the night.

Caltech's lack of social and political depth became apparent to me recently when I passed out 300

pamphlets in an attempt to find people on campus interested in hosting foreign students. I am a volunteer for the Experiment in International Living, an international student exchange organization, and I am trying to place students from Japan and Honduras in local homes for periods of 3 weeks to 4 months. My efforts have not paid off, and I received no responses from the 300 hand-outs.

Maybe nobody at Caltech has the time or desire to host students from abroad, but they did at UC Berkeley. After passing out 250 pamphlets on the Berkeley campus, I received 23 responses and placed 5 students.

I do not believe that two paragraphs will change much, but I hope that they bring to mind the the Caltech stagnańcy community.

Sincerely, Alex Battaglia, Research Assistant, Revel Lab

Comic Caper

To the Editors:

Over the course of first term numerous comic books were stolen from the student coffeehouse. Whether the intent was relatively benign, and people just "forgot" to return "borrowed" issues or whether the thefts were intentional the effect is the same. The following issues are the ones we have inventoried as missing:

Captain America 339 Daredevil 249, 251, 252 Fantastic Four 300-312 New Mutants 60-62 Power Pack 33 Spider-Man Spectacular 124-128, 134-136

Amazing Spider-Man 293, 294,

Web of Spider-Man 31-33, 36

Marvel Tales 208 Thor 387-389 X-Factor 25-26

X-Men 225-227 Classic X-Men 18, 19 Blood 2

Flash 11 Justice League Int'l 12 Legion of Super Heroes 34, 44 New Teen Titans 37

World of Krypton 4 Lords of the Ultra-Realm 1 Elfquest: Siege at Blue Mtn 3 Justice MAchine 12 Nexus 43

Night and the Enemy Graphic

The combined cover (purchase) price of these comics is around sixty-five dollars. The cost to replace them, should we do so, may be up to double that

As we see it, the theft of these comics is an honor system violation in at least two respects. First, many of the issues which were stolen near the end of the term were stolen so soon after they were purchased that large numbers of people were unable to read them. As a personal note, a few of these frustrated people were close to violent in accusing me of having not purchased the issues in question. Secondly, the Coffeehouse has such a close to non-existent profit margin that this kind of loss is not something we can absorb. If this level of pilferage continues, we will have to either cease providing the comics for people to read or raise our prices until we can afford the cost.

Sincerely, H. Douglass Bloomer Chairperson, Coffeehouse Users Group

FEELING A LITTLE CRAZY??

Psychotherapy for reasonable rates

Individual, couple, group sessions

SHARI DELISLE, M.S. 1260 Huntington Drive, Suite 108,

Let me help!

South Pasadena.

TELEPHONE: (818) 304-6934

ASCIT FRIDAY NIGHT MOVIE

THE LOST BOYS

w/ Special Short Feature: **SPINNOLIO**

BAXTER LECTURE HALL \$1 for ASCIT members

7:30 & 10:00 pm \$1.50 for others

NEXT WEEK: One Crazy Summer

PASADENA SCIENTIFIC & TECHNICAL BOOKS

We Stock Scholarly & Professional Books in:

ENGINEERING - HANDBOOKS - SCIENCES - MATH AEROSPACE - COMPUTERS - BUSINESS - CODES NURSING - PSYCHOLOGY - ARCHITECTURE - DESIGN

--- We Specialize in:

FAST DELIVERY • SPECIAL ORDERS PHONE ORDERS

M-Thur. 9-6 Fri. 9-5 Saturday 10-4



1388 E. WASHINGTON BL. - PASADENA

THE CALIFORNIA TECH Volume LXXXIX • Number 11

8 JANUARY 1988 EDITORS

Tylis Chang • Eric Fung Stephen Lew GHOST EDITOR Mark Huie

> ENTERTAINMENT Alecia Chen

SPORTS Susan Schima

PHOTOS Michael Keating

ANNOUNCEMENTS Josh Kurutz REPORTERS

Drew Bailey • Dwight Berg David Lipin • Jeff Tekanic

PHOTOGRAPHERS

David Kim • Steve Lodge Robert Paz THE INSIDE WORLD Blacker: Marty O'Brien

Lloyd: Rob Jarecki and Chris Nolle Page1: Dean Wilber Page2: Gordon Prioreschi Ricketts: Brian Chizever and Gary Ludlam Ruddock: Wayne Lukens and

> PRODUCTION Nick Smith

VanEric Stein

BUSINESS Jonathan Chow

CIRCULATION Michael Keating Gavin Claypool

THE CALIFORNIA TECH 25-58 SAC

California Institute of Technology Pasadena, California 91125

Phone: (818) 356-6154

Published weekly except during examination and vacation periods by Associated Students of the California Institute of Technology, Inc. The opinions expressed herein are strictly those of the authors.

Letters and announcements are welcome. All contributions should include the author's name and phone number and the intended date of publication. The Editors reserve the right to abridge and edit letters for expediency, literacy, or other.

Turn in copy (preferably on an IBM-compatible, WordStar-formatted floppy disk) to the *Tech* office mailbox, room 40A in the SAC. The deadline for copy is Wednesday at 5 рм; for announcements, Tuesday at 5 PM. Late copy may not be printed even if prior arrangements have been made with the editors.

Subscription requests should be directed to the business manager. Rates are \$3.00 per term, \$8.00 per annum (three terms). Special rate for life subscription: \$75 Printed by News-Type Service, Glendale, California

ISSN 0008-1582

entertainment

Classic Films Storm Tech

by Drew Bailev

on campus by Cinematech this term may need modified views to be as successful as they can be. Some will provide successful viewing without much effort, but others will not

I enjoy watching films which many would place under that slightly derogatory heading of "artsy farsty." A more pleasant term might be serious cinema. These films sometimes demand more attention from the viewer. Traditional films are fairly straightforward. The viewer gets a sense of having easily understood everything in the film. This fact is worthless when trying to judge a film. A film is little more than plastic in a can without a viewer in a particular

I prefer to consider films by how successful they are to the viewer. The success of a film is determined by the interaction between a viewer and a film in a certain place at a certain time.

Many viewers maintain certain expectations from the film. The extent to which a film fulfills the viewer's expectations determines the film's success with that viewer. A viewer's willingness to adjust his expectations can sometimes save a film viewing from disaster. A viewer rigidly expecting a comedy will be disappointed by even the best drama. There are even people who's expectations allow them to savor bad movies.

Expectations can be formed on any aspect of a film: sound, editing, acting, visual aesthetics, philosophical content, etc. One of the characteristics of a fine film is its ability to fulfill high expecta-

tions in many of these areas. The Some of the films to be shown thing that marks some films as "artsy fartsy" is their frustration of traditional expectation such as plot closure or continuity. The burden then rests on the viewer to think critically about her expectations and either adjust them to allow a more successful experience or retain the old expectations.

With this in mind, hopefully cinematech-goers will enjoy this term's feature films with the first being The Magnificent Ambersons.

The Magnificent Ambersons is considered by many to be one of Orson Welles' finest films, yet it does not require dramatic changes in our traditional expectations.

The film portrays the passing of the American aristocratic world as the modern world asserts its power in the form of the city and automobile. Released in 1942, it is Welles' nostalgic look at simpler days past. Through carefully chosen images and dialogue, we are led

into the life of the wealthy Ambersons family past its prime and the honorable designer Eugene Morgan and his daughter.

Despite some flaws in editing, done without Welles'direction by the studio, we are given subtle studies of seven complex and different characters. Each in his own way represents a unique shade of opinion and decorum considering the price of progress and the death of old habits.

The acting is marvelous throughout, especially Agnes Moorehead's portrayal of hysteria in Fanny. Although this is the only Orson Welles' film in which he does not appear, his voice-over narration not only provides information, but lends a sensuous atmosphere to this poignant film.

The Magnificent Ambersons can be seen at Baxter Lecture Hall on Saturday At both 7:30PM and 9:30рм.

continued on page 4

Welcome to the Party:

IHC Minutes 9:30рм Jan. 6, 1988.

1. Bob's Corner

a. Due to the possibility of a major disaster (read "earthquake") anytime within the next century, Caltech should have some sort of disaster plan. Of particular importance would be at least fifty undergraduates (seven people from each house including house presidents) trained in first aid by the Red Cross. Bob even has a training schedule ready. This could almost have been lumped into the Health Advocate program except that it died last year.

\$7.70

\$9.90

b. Bob is leaving for five weeks this Saturday. He'll be back Feb. 17. In the meantime, Conrad will take over for him including the Tuesday night dinners. If you are an undergrad and want to go to dinner at the Ath any Tuesday night, bug your house President.

2. Anybody parked on the Olive Walk area without written permission from a house president and someone from the MOSH's office will be ticketed.

3. The Garbage Courtyard behind Dabney and Blacker is for authorized personnel only. Anybody else will be ticketed (supposedly only during working hours).

4. Food Service

a. Andy Ingersoll, Professor and Executive Officer of Planetary Science in a letter to Jim Minges, Director of Business Services, thinks we should not go out to bid.

b. Nancy Carlton promises Sam Weaver that the food service committee will have a decision about going out to bid next week.
c. Jim Minges told Bob that we

will not be going out to bid.

d. Five of the houses want to keep the current food service, one does not, and one is split both

e. We will wait till next week to see what the food service committee says.

5. Brian's Corner

a. The Big T is going to have bigger color section than last year's, so it needs lots of color photos. The color section is supposed to be sent in soon so give your color photos to Brian Catanzaro within the next two weeks!

b. Brian proposes a rule change for Interhouse Ultimate: after a goal is scored stop the clock until the defense indicates it is ready for the kickoff, so these precious seconds are not lost as the defense strolls to the other side of the field. Initiative passes 4-1-0.

c. Can Bob talk to the Deans? There are too many lunch time and evening classes. (At this point Wayne Lukens strolls in from a late class.)

6. Bob's last words on the food service before he leaves: maybe we should come up with some sort of policy for determining when to go

7. Next week's IHC meeting will be at 10pm Wednesday evening so it will not conflict with classes.

The Inside World

A 9.2 quake will jolt the Housing Office, interrupting Blacker Movie Weekend. Fortunately, casualties will be minimal. A radical organization known as the F.L.O. will take responsibility for the quake.

A small and select group of Blacker upperclassmen will make up for their unfortunate slight last year of not leaving any presents under the Christmas tree.

At dinner, Mack will try to explain why it is that hot dogs come in packages of ten, even though the buns come in packages of eight. In the middle of his explanation, he will receive a phone call. As he picks up the receiver, he will, of course, be struck by lightning.

Blacker Hovse will once again thwart all of John Salmon's attempts to finish graduate school.

Blacker Hovse will persevere without a Damage Control Officer for the est of the term, resulting in far less damage.

Brad's basketball career comes to an abrupt halt when he bangs his knee

Bruce will grow more hair, but only to lose it in a bizzare Daihatsu accident. Due to intense shortages of beer in Southern California, House of the Month will organize an expedition to Germany, and will never be heard from again. Fred and Anna, Tanya and UKF #4 Pam and \$#%&?! Mark and Alice,

Celina and UKJ #1, Randy and Betina, Bibi and Sammy.

Min-ei will win a \$15 million settlement with B & G after ramming his bike into a Daihatsu.

More frosh will meet the fate of Bill, Harry, Pam, and Tom. Tonight. Well, maybe not tonight, but soon. Heck, tonight! Sleep well, frosh!

Ricketts Hovse will be struck by an unfortunate jello and shaving cream famine. Relief will come quickly from their benevolent neighbors to the south. Room picks will go uneventfully, until a bizzare accident sends all the seniors

into Hell and sets Tim up in room 16 with all seven frosh girls Star Trek: The Next Generation will be dragged into litigation because of its resemblance to The Love Boat. The show will be cancelled two weeks later by a court order after the Enterprise is renamed The Pacific Princess. A radical organization known as the F.L.O. claims responsibility.

Tarriffs are imposed on all sodas from the Vatican Caffeine Machine leaving Blacker Hovse. Compliance is reluctant but swift.

The Surgeon General will determine that Moria causes brain tumors, regression of testicles, and bad breath in laboratory rats.

Ultimate Season: Defending Champions Blacker Hovse will appear to have won the Interhovse title, only to be mowed down in Fleming's end zone in a bizzare Daihatsu accident.

-Oh, I get by with a little help from my friends

Lloyd: Since classes have once more reared their ugly heads(professors and Flems too!), it seems appropriate to list a few interesting classes that were somehow inadvertently omitted from the catalog:

ES(Eating Skills)189 - "Optimizing Life through Gustatory Efficiency" Instructor: L. Nayvelt

Learn to fulfill your daily nutritional requirements when you only have, say, 7 minutes and 52 seconds to eat. Discover such secrets of the master as applying horseradish to hot dogs instead of cooking them. MS(Men's Studies)17 - "Masculinity through Sound"

Instructor: D. Jeitner

Dave demonstrates how air guitar moves and sheer volume can be used to prop up a sagging macho image. Denim attire and progressive haircuts required. HT75 - "Basic Hot Tubbing" Instructor: R. Stroud

Discover how intensive exposure to warm di-hydrogen oxide can lead to a fuller,

happier, more vigorous life. Course includes a special 'hands-on' lab session in which Rhonda demonstrates proper tubbing technique.

H370 - "U.S. History through the Arts" Instructor: C. Raman

Selected topics in American history are powerfully and emotionally presented by professionals in various areas of the Arts. In second term 87-88, renowned and universally-loved musician Chandra Raman dons hat and beard to perform the one-man opera "Honest Abe," and with guitar in hand delivers a followup "lecture through song" series illustrating the great struggle for universal suffrage and civil rights, highlighting the trials and tribulations of American Reconstruction. **Bi236** - "Genetic Accidents"

Instructor: P. Socolow

Course concerns itself with the very bizarre results resulting from, and the special responsibilities and very real dangers associated with, natural and particularly, illegal artificially-induced mutations. A central topic will be the plight of hirsute, cartilaginous 'accidents' who appear to combine Levlike body fur, Habaoid stringiness, running talent, and amazing hair but cannot play basketball and look truly scary in bicycle apparel. Instructor offers his own very extensive personal experiences and insights.

Pl/Knk177 - "The Philosophy of Kank: Peace through Sardonicism"

Instructors: K. Owens, S. Kuwamoto

Traditional schools of thought are critically reviewed and shown to be generally pretty lame. The importance of the notion of personal superiority to inner peace s explored. Course may not be taken for credit, as the student is expected to conclude that the class really festers and drop it.

Ph499 - "Whiteboard Physics"

Instructor: C. Nolle

Lecturer discusses the potential for understanding the universe while standing in the hall. Bring your own problems. Note: Last chance! - will not be offered beyond 1988.

Hum162 - "Baseball: An Icon for Interpretation"

Instructor: R. Jarecki

Understand everyday and world events in baseball terms. See why the Brian Patterson free agent acquisition may prove crucial in 1988 for the house with no depth. Recognize Khadafy as a budding Steinbrenner. Note the striking parallels between recent Seattle Mariner acquisitions of Henry Cotto, Steve Trout, and Glen Wilson and American intervention in Vietnam.

KAOS welcomes Adam Weissman, and happy roompick to all! Brian balance temporarily maintained by cheerful O'Neil spectre apparently at peace with the world. Ski trip! Good luck, BP. Ultimate rules,

-The King of Spin and Dark Foot.

Page: See Dick. See Dwight. See Dick ask Dwight about the Rose Bowl prank. See Dwight tap Dick on the face with his fist. Poor Dick. Maybe if he had asked before those four hundred other people Dwight would have been in a better mood

See Pete. Pete is sometimes called "the Dragon," mostly by people who smell his breath. Maybe Pete has bad breath because of the liquid protein diet he's on. See Pete write a letter. It is a funny letter. Ha Ha. Very funny. See Psycho read the letter. "Ha Ha," says Psycho. "This is a funny letter." See Dwight read the letter. "Ha Ha," says Dwight. "This is a very funny letter." See Dwight read the letter to all the Boys and girls in Page House. See all the Boys and girls marvel at Pete's awsome command of the English language. "Ha Ha," say the Boys and girls. "This is a funny letter. Ha Ha. Very funny. Ha Ha Ha." Maybe Pete could get a job writing one-liners for Bob Hope. Pete and his friends want to play water polo with the Boys and girls in Page. Maybe

continued on page 4

FELLOWSHIPS IN ELECTROMAGNETICS

GRAPHIC ARTS ROOM 17

Business Services Building

Passport Photos

While you wait service

Hours: 8:30 - 11:30 a.m.

2 color prints

4 color prints

1:00 - 4:30 p.m.

MSEE, Applied Electromagnetics March 15 Deadline

Earn salary, benefits and a \$15,000 yearly stipend in Northrop's work-study fellowship program. Begin working in the summer of 1988, then we'll also cover books, fees and tuition for the '88/89 year. You'll work half-time during the year, full-time on breaks and holidays. Must be admitted to UCLA without qualification, and qualify for any required security or special access clearances.

> Contact: Dr. James B. McNeely NORTHROP CORPORATION **Corporate College Relations** One Northrop Avenue, 30/136/52 Hawthorne, California 90250 (213) 332-1514

DRTHROP

Northrop is an Equal Opportunity Employer M/F/H/V

More Inside World

Pete's friends play water polo better than they play football.

See the mountain. It is a tall mountain. It is far away. It would take you. all day to walk from this mountain to your House, assuming you could find your way. It could take a very long time to get home if you got lost. It is wintertime. It has been a very cold winter. That means there is snow on top of the mountain. Lots and lots of snow. See the little boy. He is a Frosh. Maybe he will get to play in the snow. See all the little boys and girls. They are all Frosh. Their older friends will take them on a long drive in their cars so they can play in the snow. Hopefully Santa brought them lots of warm coats and boots and mittens and scarves and hats. It is very cold on the mountain. Very, very cold. The Frosh must dress warmly. If they don't, they will get froshtbite and the doctor will have to cut off their feet. Or they might get hypothermia, which means they might stay on the mountain for a very long time. See the crevasse? Of course you don't see the crevasse. You can't see the crevasse because it is covered with snow. Don't step on the snow where there is a crevasse under it. Otherwise you might be on the mountain for a very long time. See Mountain Mike. He lives on the mountain. He is very lonely. Maybe one of the Frosh will get to play with Mountain Mike. Mountain Mike hasn't seen a woman in twenty years. See the nice man. He stops his car and asks you if you want a ride. "Do you want a ride little boy, little girl?" he asks. "Don't be afraid," He says. "I won't kill you." Don't ask the nice man why he has a swastika tattooed on his forehead. That would be bad manners. Didn't your mommy always tell you to have good manners?

Happy New Year, kids.

-D. "Draggin' on the Ground" W.

Page2: Bein as we is a red-white-an-blue-blooded Ronnie-worshippin baseball-an-apple-pie-lovin clean-cut all-American shoe-wearin showerinevery-day kind of house, we wish a certain (very temporary) member of our house would quit bringin her 60's-throwback pinko-liberal-lippie-freak commielovin showerin-once-a-month-if-I-feel-like-it barefoot-grime-trackin longhaired friends thru. Or at least make them wear bloody shoes!!!

On a humanitarian note, we of Page house feel that the spirit of giving should not end with the Christmas season. It is a little-known fact that many impoverished third-world countries are experiencing a critical shortage of beer. To help alleviate this horrible condition, send your tax-deductible contribution to:

Beer the World c/o Schamu 1-53 etc.

> -Clark Kent, mild-mannered guest writer

Ricketts: Welcome Back! Rah! Rah! Rah! (you saps)

What I did over Christmas Break: I went home. I saw my mommy. I saw my daddy. I saw my little brother. And I saw my big sister do naughty things with her boyfriend. It looked like fun, but she would only do it with me once. We played in the snow. And made a big snowman. He looked just like the ornamental down the street, but daddy said not to play in the yellow snow anymore. We went to gramma's house to open our presents. I got a sled, a bike, a dissect an alien kit, and underwear with little Santa Clauses on it. Gramma made a fruitcake which everyone fed to the dog. It was sad when we buried Rover, but I'm a big boy, so I didn't cry. New Year's Eve, daddy didn't let us stay up late, but we woke up when mommy fell out of her window. Daddy didn't see it because he had a lampshade on his head. Mommy lay out in the snow for two hours until daddy noticed she was gone. She looked just like a smurf when she came inside. Daddy said that Jack Frosh nipped her nipples, then he laughed and threw up. I'm back now, and I'm glad Christmas break

Diamond David Lee ruled the first hovse meeting of second term with an iron fist. In an attempted coup, Gaby tried to take over the presidency of Ricketts Hovse, but was silenced when Wack-A-Doo hit her over the head with his gavel, screaming "I'm the president, dammit! Why don't you just go and get laid?!" She was last seen being carried into the guest suite by Sam. Historians Phyllis and Tylis rushed after them with cameras a blazing. According to reliable sources, nothing exciting happened that evening.

Other Naughty Bits: Dan and Laura both got to Tech on Tuesday night, after spending the previous twenty-four hours in a Hilton hotel room under the name of Mr. and Mrs. John Jones (well, they couldn't use Smith, now could they?). Congratualations to the new gong keeper Jim Jaquez. Knowing our current waiters, he's never going to get wet. The first annual Ricketts Hovse raffle is here. For \$10, you get a chance to win fourty-eight hours with our own Mary "Kitt" Hodsden (new hairdo and all). Send money to us.

-The Lil' Cook-Man and the Great Neck Strangler

Ruddock: Hello, we are the newest off campus Rudd and the space chicken and we're bringing you this week's inside world. Today's opener is Top Ten New Year's Resolutions.

- 10. Spread broken glass down the Olive Walk
- Work on Ditch Day Stack
- 8. Kill Sidney
- 7. Just say no
- 6. Take it any way you can get it
- 5. Pass AMa 95
- 4. Stop drinking excessively
- Start drinking excessively 2. Go to all your classes
- 1. Graduate on time

Is everyone ready to avoid the Lloydies on the slopes at Big Bear this weekend? Better start learning to ski backwards.

Get psyched for Ultimate against Blacker on Monday at 8:45!!!

Also, don't forget that nominations are at 9:00pm on Tuesday and elections are on Friday the 22nd. Sign up early, sign up often, and sign up BIff! Get those bogus house offices ready too!

Not much has happened yet, so this looks like it for the Inside World, folks. Rumor of the week: Jamal is suffering from rectal cancer. (We suspect Cameron is to blame)

Quote of the week: Cameron says, "This is the best goddamn New Year's I've ever had." (We agree since we are the class of 1988)

Classic Films, cont.

from page 3

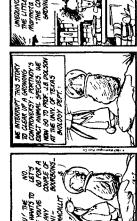
In addition to films being shown by Cinematech, an excellent series of feature-length films can be viewed this term. These films are being shown by Professor Robert A. Rosenstone as part of the class

H131: History Through Film I. Free of charge to members of the Caltech community, the films can be screened at 7:30pm on Wednesday evenings in Baxter Lecture

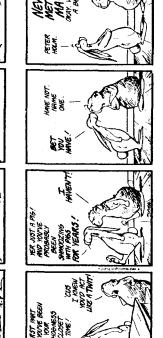
These are the films:











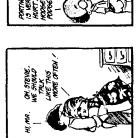




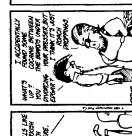


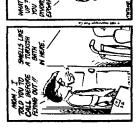












このこと BLOOM

by Berke Breathed



Jan 6: The Return of Martin Guerre 13: The Rise of Louise XIV 20:La Nuit de Varennes 27:The Wobblies

Feb 3: The Killing Floor 10:*Reds* 17:Oktober (a.k.a. Ten Days That Shook the World) 24: Ceddo

Mar 2:Far From Poland 9 San Soleil



CALTECH public events THE CAMBRIDGE **BUSKERS**

Michael Copley and Dag Ingram use an accordian and 20 other wind instruments to spoof music from Bach to Scott Joplin

Friday, January 29, 1988 / 8 pm **Beckman Auditorium**

Tickets: \$17.50-15.00-12.50 CIT Students: \$8.75-7.50-6.25; Rush Tickets (Day of Show): \$6.00

Tickets available at the Caltech Ticket Office, located just north of the Beckman Auditorium parking lot.

TARANTINO'S PIZZARIA

3652 E. Colorado Blvd., Pasadena. (818) 449-3112 784 E. Green Street, Pasadena.

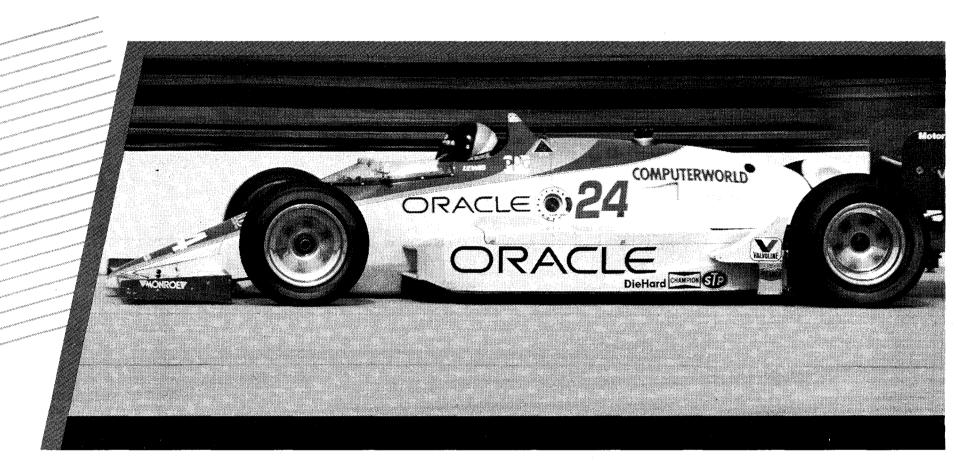
(818) 796-7836

Grand Opening Special!

Large Cheese Pizza \$4.99.

20% Discount on any food with Caltech I.D. Special prices and discount apply only at our new restaurant at 3652 E. Colorado Blvd., Pasadena.

The Fast Lane Is For Winners



ORACLE®

The world's fastest growing software company and largest vendor of database management software and services

THE PAST

Oracle Corporation's revenues have more than doubled in nine of our ten fiscal years (the other year we grew 91%). This unprecedented growth is the direct result of the focused efforts of our unparalleled, company-wide team of superachievers.

THE PRESENT

A 1987 Software News survey ranks Oracle as the ONLY top-five supplier of software for mainframes, minicomputers and personal computers. ORACLE, our SQL-based, relational database management system, and our family of application development tools and decision support products are emerging as industry standards for every class of computer.

THE **F**UTURE

If you are accustomed to success with an uncommon insistence on doing everything well, you can become part of this growth. We are recruiting now to staff our expansion of service and product offerings around the world. Join Oracle's team and help us continue our record of success.

We are recruiting for positions in Marketing, Consulting, Development, Finance, International and other areas within Oracle. If you are interested in opportunities at Oracle, please call or write:

Larry Lynn
Oracle Corporation
20 Davis Drive
Belmont, California 94002
415 / 598 / 8183 or 8124

sports

Beavers Battle at the Pig Bowl

by Ben Schwarmer

The Big Bad Battlin' Beavers wrapped up their season last Sunday with the slaughter of the Pasadena Police. The Beavers pummeled the cops in a 33-6 victory with 300 yards rushing and 64 yards passing that gave them a final record of 5-3. They won their last four in a row after a slow season opening.

The game began with a flubbed onside kick which left the police in an excellent field position. Led by ffl51 Scott Miskovish, the Beaver defense came to the rescue and stopped them cold. But the police quarterback managed to get in a scoring position with the passing game. When the police tried running again, defensive end #42 Jeff Cavallaro forced a fumble on the running back and took the ball. Starting from their own 18 yard line the Beaver offense drove 82 yards on 15 rushing plays and scored on a quarterback sneak by #11 Aram "Koo" Kaloustian. The conversion was made by #23 Doug Gardener and put the home team up

One play after the kickoff the Beaver defense forced another fumble and recovered on the police's 15. Two short passes later, they were in the end zone again. This time "Koo" connected with #88 Daren Casey for six and the follow up kick by Gardener boosted the lead to 14-0.

The frustrated police met deja vu in the form of yet another fumble, again, one play after the kickoff. The Beavers started from the 18 and got to the 10. Rather than try for the field goal at that time, the Beavers made an attempt on the fourth down. The play missed by inches and gave the ball to the

During the next drive, the cops shifted strictly to a shotgun offense. They passed exclusively until a major reception brought them to the Beavers' 38. Here they turned the ball over for the fourth time. digging themselves further into a

Now in control, the Beavers let loose the passing game with "Koo" connecting with #41 Brian Daniels for a 41 yard reception to the police's 6 yard line. They powered their way to the one then brought in the Jumbo Ram offense (five guys, 1200lbs, real big). On the third Jumbo attack, Steve "Hardnutz" Harkness surged in from just inches out. Witnesses were quoted as saying, "He looked just like a great big whale turning over." The conversion was wide, causing the lead to be 20-0.

The police fought back on the next possession pushing with their best all the way to the Beavers' 8. A sturdy goal line defense stuffed the drive, and the police lost possession on a fourth down gamble.

The Beavers, deep in their own territory, were determined to dig their way out. They did not have to wait long. On the second play from scrimmage, #3 Vince Riley juked his way through the scattered police squad for a 94 yard sprint for the goal line. Vince's run is the longest breakaway this year. The point after attempt was unsuccessful and the score was 26-0.

Tired and beaten the police went solely for the pass and had some success. Throwing into tight coverage they managed one score before halftime to bring the score to 26-6. #33 Eric "the Mole (a.k.a. Cockroach)" Newman blocked the conversion and held them to six

The next few series were draws and eventually brought the Beavers to midfield. Thirteen plays later, they were knocking on the door again, with #1 Lee Malory taking the lead. Coupled with the conversion, the score went to 33-6.

On the ensuing onside kickoff, #35 Earl "Thunder Thighs" Taylor recovered before performing his spectacular victory dance. Unfortunately the Beavers fumbled shortly afterward. The police outdid the Beavers again by fumbling right back for a record-breaking fifth time. As a result, the Beaver offense ran out the clock.

However, the game was not a total loss for the cops. They did manage to split the chin of #65 Todd "Schamu" Schamberger for the fourth unprecedented time this season. Due to the excess use of police brutality though, some of them met the bench.

Other classical meetings included Coach Bridges' encounter with the Ice Bucket and Coach Parker's swim with Coach Renfroe in the pool. A wet coach is a happy



In a smooth handoff, #1 Lee Malory takes the ball from #12 Steve Burrato to gain extra vardage.

Caltech Ice Skates to Tie against Irvine

by Ice Man

Hard-hitting hockey and rowdy fans combined for a fabulous evening of entertainment as Caltech battled Irvine/Golden West J.C. to a 2-2 tie Wednesday night at the Pasadena Ice Arena. The tie made the series between the two teams 0-1-1 in favor of Irvine. Eight minutes into the first period Irvine struck with the first goal of the game. Joe Wood pushed the rebound off the stick of Joe Duffy beating Ted Kantardjieff high on the glove side.

Caltech struck next as Mike "Lizzie Borden" Freeman stole the puck from an Irvine defender and pushed it forward to Jim Bower who decked past the goalie and

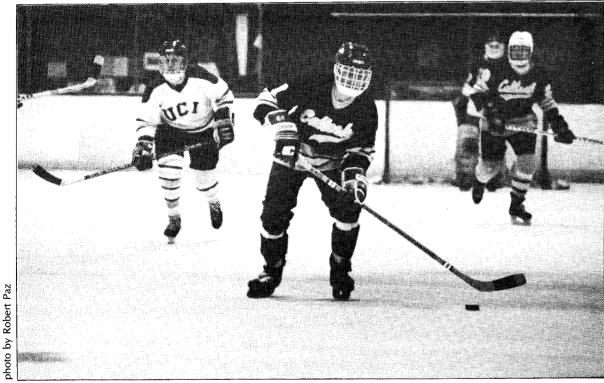
The remainder of the game consisted of numerous checks all over the ice and beautiful saves by the Caltech goalie. Irvine tallied its second goal late in the third period to tie the score.

Be sure to attend the next Caltech hockey game on Wednesday, January 13, 1988 against Irvine at Costa Mesa Ice Arena. Dwight Berg will return from his 30 day suspension and is offering the 2-beverage incentive for all fans attending the game if he tallies eight or more penalty minutes.





793-2243 or 449-4436



Caltech's Phil Askenazy maintains possession of the puck while Dave Fort prepares to assist from behind.

WEEKLY SPORTS CALENDAR

Day	Date	Time	Sport	Opponent	Location
Sat.	1-9	7:30 pm	Basketball	LIFE College	LIFE College
Sat.	1-9	TBA	Swimming	U.C. Irvine Invitational	U.C. Irvine
Sun.	1-10	TBA	Swimming	U.C. Irvine Invitational	U.C. Irvine
Mon.	1-11	7:30 pm	Basketball	Pacific Christian	Caltech
Tue.	1-12	4:00 pm	Swimming (W)	Mills College	Caltech
Fri.	1-15	7:30 pm	Basketball	Pomona-Pitzer JV	Caltech
Sat.	1-16	10:00 am	Swimming	Whittier	Pomona-Pitze

Greg Susca Painting and Wallcovering

Interior and Exterior

License #456757

Special discounts to Caltech community

Sam Custom Jailor

SEE OUR NEW LOCATION 3519 E. COLORADO BLVD **PASADENA** (818) 793-2582

> **ALTERATIONS** RESTYLING TAILORING INVISIBLE REWEAVING

Special rates for Caltech/JPL communit

HOPE AND GLORY

Mon-Wed 7:00 pm, 9:10 pm

LAEMMLE THEATRES

2670 E. Colorado Blvd. (818) 793-6149

'Best Picture' -L.A. Film Critics

Thurs-Sun 2:20,4:40,7:00,9:10 pm

COLORADO

2588 E. Colorado Blvd. (818) 796-9704

'Best Foreign Language Film' -N.Y. Film Critics

MY LIFE AS A **DOG**

Mon-Wed 7:30, 9:30 pm Thurs-Sun 1:30,3:30,5:30,7:30,9:30 pm

what goes on

from page 8

Professor Bodywise's Is Here!

On Saturday, January 9 at 10 am and 2 om. Professor Bodywise's Traveling Menagerie will be in Ramo Auditorium. Life-sized puppets and actors promote the advantages of good nutrition, proper dental care, an active lifestyle, vehicular and home safety, and the avoidance of smoking, alcohol and drugs. Designed for children grades K-6. Admission: free. Call x4652 for more information.

Free Chamber Music

On Sunday, January 10 at 3:30, Jennifer Gordon, violinist, will perform in Dabney Hall Lounge. This concert will feature works by Handel, Faure, Brahms, Bloch and Ravel. Andrew DeGrado will accompany on the piano. Admission: free. Call campus extension 4652 for more information.

Study In Death Valley

You can study the wonders of Death Valley from March 27-April 2 with San Jose State University Field Studies in Natural History and earn university credit, too.

Bighorn sheep, kangaroo rats, geckoes, chuckwalla lizards, sidewinders and other creatures will be waiting for you. More than 600 kinds of plants are there, too. Daily field trips explore the geology, plants, animal life, botany, ecology, and zoology. Evening entertainment, mini-lectures, films, and more make a fun and fact-packed experience.

You do not have to be enrolled at SJSU, but an organizational meeting will be held there on March 18 to organize carpools and cooking groups. For further information and registration assistance call (408) 924-2625.

Ski Jackson Hole

If you're *really* into both spring breaks and skiing, take advantage of "the most comprehensive spring break package ever offered for ski buffs," The Busch Spring Rendezvous at Jackson Hole, scheduled for March 14-26. Daily activities, at no extra charge, will include five types of ski races, inflatable raft races, costume contests, dance contests, treasure hunts, fashion shows, dancing and live music. Ski activities will be based out of the "Busch Ski Club," a large, heated tent complete with sound system and located on the mountain. Barbecues and other non-ski activities will be based under a large 5,000 square foot tent called the "Busch Bar and Grill."

Several travel agencies are offering package rates for the Busch Spring Rendezvous, including lift tickets, lodging and inexpensive caravan-type transportation by air or bus. For further information call 1-(800)

Money For Women

The College Women's Club of Pasadena is offering scholarships for 1988-89 to full-time undergraduate and graduate wom-en. Scholarships are for \$2,000 and can be used for tuition/fees, textbooks, and lab fees. Applications are available from the Financial Aid Office, 515 S. Wilson. Applications and requested forms must be returned to the Financial Aid Office by February 12.

Money For Authors

The San Francisco Foundation is sponsoring two separate awards for \$2,000 each. One is the Joseph Henry Jackson award, and the other is the James D. Phelan award. The awards will be made of the authors of an unpublished work-in-progress in the form of fiction, non-fictional prose, or poetry. The deadline ffor applications is January 15, 1988. For further information, please contact: The San Francisco Foundation Awards Office, 500 Washington St., 8th Floor, San Francisco, CA 94111, or phone (415) 392-0600. You can also contact the Financial Aid Office, 515 S. Wilson, much closer and not even a toll call.

Money For Kern Co. Oil Buffs

The Wilma Addington Memorial Scholarship is being offered by the Desk and Derrick Club of Bakersfield in honor of one of their past presidents, the late Wilma Addington. The scholarship is granted annually to a permanent resident of Kern County who is pursuing higher education in a petroleum or allied industry related field. Application deadline is August 15, 1988. For further information please contact the Financial Aid Office, 515 S. Wilson.

Money From The Blind

The National Federation of the Blind is offering seven different scholarships ranging from \$1,800 to \$10,000. The scholarships are awarded on the basis of academic excellence, service to the community and financial need. The deadline for receipt of the application is March 31, 1988. For further information please contact the Financial Aid Office, 515 S. Wilson (2nd floor).

N.A.S.A.G.S.R.P.

The NASA Graduate Student Researchers Program (GSRP) is awarding approximately 80 grants of up to \$18,000 to promising U.S. graduate students whose research interests are synergistic with the goals of NASA research programs in space science and in aerospace technology. The Fellowships are awarded for one year and are renewable for up to 3 years. To be eligible the student must be a U.S. citizen and a full-time graduate student from an accredited U.S. college or university. Students may apply any time during their graduate career or prior to receiving their baccalaure-ate degree, and they must be sponsored by the student's graduate department chair or faculty advisor. For further information, please contact the Financial Aid Office, 515 S. Wilson.

I.S.O.E. = S.P.I.E.?

S.P.I.E. - the International Society for Optical Engineering, is awarding scholarships and grants in ranging in size from \$500 to \$5,000. Application may be made for funding of any activity in the field of optics. A course of study in optics or optical engineering and student travel to meetings of professional and technical societies are appropriate uses for scholarship and grant awards. Applications must be received by May 2, 1988. For further information please contact: Warren J. Smith, Chairman, SPIE Education Committee, PO Box 10, Bellingham, Washington 98227-0010, or contact the Financial Aid Office, 515 S. Wilson (2nd

National Health Fed Convention

Dr. Robert Mendelsohn, M.D., will be the main speaker at the National Health Federation Convention at the Pasadena Convention Center on Jan. 15-17.

Marking the 33rd annual Health Convention will be over 200 exhibitors, several food preparation demonstrations and 80 speakers on all areas of natural health. The messages of the various speakers will pertain to alternative therapies and self-help. Included in the exhibitions will be water purifiers, mini-trampolines, foods and vitamin supplements.

The Conference will take place in the Exhibit Hall, the Lower Level Conference Center and the Civic Auditorium of the Pasadena Center. Hours are 8 am to 6 pm on Friday and Saturday, 9 am to 6 pm on Sunday. Admission is \$15 per day or \$20 for the whole weekend.

For information call (818) 793-2122.

London Fellowships

The Imperial College of Science and Technology in London has announced several fellowships for post-graduate study at the college. The RTZ Corporation has instituted awards for research and advanced courses in a field connected with the discovery and mining of minerals. Application deadline is March 15. The Royal Dutch Shell Scholarship in Geology or Geophysics is designed for research training in one of those fields. Application deadline is February 29. The William Selkirk Scholarship and the James Capel Scholarship are for students pursuing postgraduate study or research in the Department of Mineral Resources Engineering. Deadline for applications are June 30. The Arab-British Chamber Charitable Foundation Scholarships are intended to assist students undertaking research or advanced study in aspects of science and technology which can be applied in the holders' home countries. Applications are invited from the countries which are members of the League of Arab States. Deadline is March 31. Stop by the Career Development Center, 08 Parsons-Gates, for more information on these and many other fellowships available for the 1988-89 academic year.

JFCS Grants

The Jewish Family & Children's Services is offering grants of up to \$2,000 per year for students through age 21 who are working towards an Associate's or Bachelor's Degree. They are also offering loans of up to \$5,000 per year to students enrolled in any academic or vocational program. In order to qualify, the student's primary residence must be in the JFCS service area, which includes San Francisco, the Peninsula, Marin and Sonoma counties. For further information please contact the Financial Aid Office, 515 S. Wilson (2nd floor).

The Big T's Are Here!!!

Yes, the Big Ts have arrived. If you were an undergrad last year, a yearbook has been reserved for you. See your house RA's or Nancy Matthews (room 64, SAC) to pick up your copy of the Big T. Enjoy the yearbooks!

SPERM DONORS NEEDED

Earn up to \$105 per week. University students only. Area's largest sperm bank. Call: (213) 553-3270.

California Cryobank, Inc. 2080 Century Park East #306 Los Angeles CA 90067

Work Jackson Laboratory

The Jackson Laboratory in Bar Harbor, Maine, is offering a summer student program in biomedical research. Each student conducts an original research project within the on-going program of a member of the Research Staff. The focus of the program is on research training in mammalian genetics and development using multi-disciplinary experimental approaches and genetically defined laboratory animals, primarily mice.

Room and board is provided, with the cost included in the program fee. Student housing is at Highseas, a summer estate located 1 mile from the laboratory at the

The fee for the 9-week program is \$1,500, with scholarships available for participants who require financial assistance. Awards are in amounts of up to fees plus related espenses. No student will be refused admission because of inability to pay. Open to undergraduate and graduate students in the biological sciences, and to medical, dental and veterinary students. Application deadline: 29 February 1988. Decisions made by the end of March. Write: The Jackson Laboratory, Bar Harbor, Maine 94609, or call (207) 288-3371, x253.

Summer Molecular Biology

Robert Wood Johnson Medical School is sponsoring undergraduate summer research in molecular biology and biochemistry from June 13 to August 19, 1988. Application deadline is April 1, 1988. Stipends: \$2,000 to \$2,500. On site housing available.

The goal of the program is to provide undergraduates with the opportunity to perform supervised research in molecular biology and biochemistry. At the end of the summer period each student will write a progress report and will be presented with a certificate of having completed the program.

For an application form please write Dr. Masayori Inouye, Chairman, Dept. of Biochemistry, UMDNJ-Robert Wood Johnson Medical School, 675 Hoes Lane, Piscataway, NJ 08854-5635.

Dow Jones Newspaper Fund

The Dow Jones Newspaper Fund is sponsoring their 1988 Minority Reporting Intern Program for College Sophomores. The program provides a grant to attend a pre-internship writing/reporting seminar, guaranteed summer reporting internship with pay, and a scholarship for the junior year of college. For more information, come by the Career Development Center, 08 Parsons-Gates. [And don't forget, your application will look better with a few college newspaper bylines, hint hint!]

Hunter Rouse Fellowship

The University of Iowa College of Engineering is sponsoring the Hunter Rouse Postgraduate Fellowship in Hydraulics and Fluid Mechanics. Recipients must have earned a B.S. or M.S. by the 1988 academic year. Stop by the Career Development Center, 08 Parsons-Gates, for more infor-

Washington Workshops

Sponsored by the Washington Workshops Foundation in cooperation with The School of International Affairs at George Washington University, the 1988 Seminar on Diplomacy and Global Affairs strengthens the international component of post-secondary education through in-depth, onsite study of global affairs in Washington, D.C. Stop by the CDC, 08 Parsons-Gates, for more information.

S.A.M.P.E. Symposium

The Society for the Advancement of Material and Process Engineering (SAMPE) will host its largest-ever international symposium and exhibition between March 7-10 at the Anaheim Convention Center, in Anaheim. The theme of the gathering will be: "Materials – Pathway to the Future." Registration: March 6, 1-5 pm, March 7-9, 7:30 am-5 pm, March 10, 7:30 am-1:30 pm. Exhibits: March 7, noon to 5 pm; March 8, 10 am to 6 pm; March 9, 9 am to 5 pm; March 10, 9 am to noon.

The program will include 350 exhibits,

a symposium presenting 225 papers, a keynote address entitled "Trends in Foreign Affairs: The U.S. Perspective," and an awards luncheon at the Anaheim Hilton Hotel.

For additional information about SAMPE, please contact Marge Smith, business director, at PO Box 2459, Covina, CA 91722, or phone (818) 331-0616.

Imitate Hemingway

Did Totem reject your most brilliant prose as being too literary, too derivative of Ernest Hemingway? If so, have we got a contest for you. Harry's Bar & American Grill announces its eleventh annual International Imitation Hemingway Competition.

What is Imitation Hemingway? It is writing. It is writing like Ernest Hemingway. It is parody. It is funny. The best entries will be very funny.

The whole point is to write one page of any type of prose in the style of Ernest Hemingway, and to mention Harry's Bar & American Grill (nicely). It must sound like Hemingway, read like Hemingway, and it must be funny.

The prizes are simple: fame, immortality, and dinner for two at Harry's Bar & American Grill in Florence, Italy-plus the plane fare there and back for two. Closing date for the contest is February 15, 1988. Send entries to the "local" Harry's: Harry's Bar & American Grill, 2020 Avenue of the Stars, Century City, CA 90067. Winner will be announced in April, 1988.

Summer In Scenic Buffalo, NY

Roswell Park Memorial Institute, at 666 Elm Street in Buffalo, New York (14263) is sponsoring a summer research participation program for college juniors. In addition to other qualified students, they are actively seeking applications from minority students of Black, Alaskan Native, American Indian, Hispanic or Pacific Islands origins. [If this sounds nebulous, it's because their cover letter didn't say much.] Application deadline is March 11, 1988. Write to them for information, or call (716) 845-5706.

International Leadership

The International Leadership Center is seeking applicants for the second session of its summer-long leadership development program. Fifty outstanding men and women from campuses across the country will be selected to spend 10 weeks strengthening their leadership skills. This non-partisan program takes place between June 10, 1988 and August 18, 1988.

Leadership America includes one week in North Carolina, one week in the Rocky Mountains, and three weeks in Dallas, Texas. It also includes a four-week internship in business, government or community service followed by a closing session in Washington, D.C.

Students incur few expenses in Leadership America since most costs are underwritten by corporate sponsors. In addition, participants receive a \$2500 scholarship. To be eligible for selection in Leadership America, a student must be currently enrolled at a qualifying school (Caltech, for instance), and have completed the iunior year of his or her studies by June 10, 1988. The primery criterion for selection is that he student have an "outstanding potential for leadership." Selection will begin in February 1988, and invitations will be extended

For additional information about Leadership America, contact the Deans' Office, 102 Parsons-Gates, x6351. Applications for this program must be completed no later than January 29, 1988.

de Karman Fellowship Trust

The Josephine de Karman Fellowship Trust is offering 15 fellowships of \$3,000 each. These fellowships are available to students entering their senior undergraduate year and graduate students entering their third year or after of graduate school in the fall of 1988. The grants are for one year and are not renewable. For further information please contact the Financial Aid Office located at 515 S. Wilson (2nd floor).

S.T.D. Hotline

The County of Los Angeles Department of Health Services announces the availability of its Sexually Transmitted Disease Hotline. The Hotline provides confidential telephone information about sexually transmitted diseases such as gonorrhea, syphilis, herpes, venereal warts, and chlamydia, to name a few. The Hotline also provides referrals to low-cost health facilities where diagnosis and treatment is available. These facilities are located throughout Los Angeles County To speak with a Hotline "listener" call (213) 588-5221. The Hotline operates 8:00 am to 6:00 pm Monday through Thursday and 8:00 am to 5:00 pm on Friday. All calls are confidential.

SERVING CALTECH SINCE 1945 Authorized Agents for Airlines, Hotels and Steamships B.BEA Finest in **Professional Travel Services** (818) 795-0291 (213) 681-7885 **CAMPUS EXTENSION** 3091 690 E. GREEN ST. PASADENA, 91101 (between El Molino & Oak Knoll)

18 MD SUN TUNG LOK RESTAURANT

DINNERS 20% OFF with coupons or Caltech ID.

> **OPEN 7 DAYS** 11 AM to 11 PM BEER & WINE

3 MASTER CHEF SPECIALTIES DIM SUM, SZECHUAUN, CANTONESE, SEAFOOD

Dim Sun available daily at lunch 400 S. ARROYO PARKWAY, PASADENA

> Near Velvet Turtle 584-6720 FREE PARKING IN PASADENA INN

what goes on

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 25–58, or put them under the door of Room 40A of the SAC. Announcements must be received by the Tuesday prior to publication.

Classical Ballet at Caltech

A ballet class is being offered during second term, open to any student or member of the faculty of staff who wishes to participate. It will be taught by Helga DeKansky, a professional ballet instructor and exballerina.

The correct classimes are: Mon. 4-6 PM Thurs 7:30-9:30 PM in Dabney Hall. The class is tentatively scheduled to begin on Monday the 11th.

We are attempting to arrange approval of the class for PE credit.

The cost for the class is currently: students \$2/class \$6/class faculty/staff

These prices may decrease depending on the level of interest. If you are interested in participating please contact either Jason Stewart (1-59, 356-9414) or Felicity Wong (1-59, 796-7223)

Debate?

Interested in travel, trophies, and fun? Competitive speaking may be for you. Debate is reorganizing at Tech. We will be meeting at 7:00 PM, Wed. Jan 13, in clubroom A in the SAC. If you have questions, go to Sam Dinkin (1-59, 578-9219).

Wine, Women and Song!

The Women's Glee Club is beginning rehearsals in preparation for their spring tour to the nrothern California wine country, March 23-27. Rehearsals are in SAC Rm 1 on Mondays from 7:30-9:30 pm and Wednesdays from 5:00-6:00 pm. Since we're learning new music this term, we're inviting new singers to join us. For further in formation call Ann Lewis, 577-7664; Rachel Clark, x3761, or Leslie McCaffree, x6172. All members of the Caltech commu-

CLASSIFIED ADS

HELP WANTED-

MALE STUDENTS WANTED!

University students as sperm donors by California's largest sperm bank. Earn \$70-105/week. 213-553-3270 California Cryobank, Inc., 2080 Century Park East #306, Los Angeles.

CAMPUS REPRESENTATIVE. Earn \$500 + by placing and maintaing posters for Fortune 500 Companies' products on campus. 3-4 flexible hours each week. Call today: 1-800-821-1540!

EARN \$50-\$100 per day marketing credit cards to students on your campus. Work F/T or P/T. Call 1-800-932-0528.

HEALTHCARE FINANCIAL CONSULTING FIRM needs experienced part-time DBASE III programmer. Most work will be afternoons and evenings in Pasadena office. To apply call: Para, Ltd. 818-792-9300.

FOR SALE-

NEWPORT 20' SAILBOAT, Good cond., comes w/main & jib, 6hp Evinrude outboard, extras, slip avail. \$3500 o.b.o. Call ext. 4001 anytime, lv. message.

RUSH CONCERT TICKETS, February 4 at the Forum. Call Chris or Jonathan, 578-9368. Leave message.

SERVICES -

INSURANCE WAR! We'll beat anyone's prices or don't want your business. Sports cars, multiple tickets, good-driver discounts. Request "Caltech Plan." (818) 992-6966 or (213) 873-3303.

PROFESSIONAL WORD PROCESSING SERVICES specializing in 'resumes/thesis/dissertations', office procedure consultant, Alhambra, M-F 9 a.m. - 5 p.m., Evelyn (818) 576-2059.

PROBLEMS w/ PROSE ?

Ph.D English 1985. Will critique/edit resumes, letters, papers, proposals, dissertations, technological prose, any manuscripts. (818) 355-4340.

RATES.....\$2.50 for first 25 words; ...10¢ for each additional word. Send written ad with payment to 25-58. No charge for on-campus lost & found.

Caltech Raquetball Club

Passes for the use of the Pasadena YM-CA's racquetball facilities are now available at the Caltech Y for the price of 1 dollar. They can be purchased during normal office hours and are available to any student. The passes allow full use of YMCA facilities for

one day.

The YMCA is located at 235 E. Holly Ave., 1 block north of the Pasadena Plaza, next to City Hall. There will be a list of available partners posted at the Caltech Y, so if you are interested, please sign up.

If you have any helpful suggestions for the club, contact Jason Stewart at 1-59 or 356-9414

SURF's up!!

Applications for SURF-'88 (Summer Undergraduate Research Fellowships) are currently available in Room 3, Dabney Hall. We have a notebook with a few projects for '88 listed for undergrads to review

Application deadline is 5 PM Monday,

Last Call For Letter Jackets

If you want to order a letter jacket, see Brad Scott in Blacker, Room 6, before Jan.

CLAGS

The CLAGS (Caltech Lesbian And Gay Society) meeting for January will be held next Monday, the 11th, at 7:30 in room 15 of the SAC. Next month, we'll resume meeting the first Monday of every month. For more information, contact Laura Anderson,

S.P.E.C.T.R.E. of Science Fiction

S.P.E.C.T.R.E., the Caltech Science Fiction Club, will meet next Wednesday, 13 Jan. 87, at 7:30 pm in Clubroom B (i.e. room 15) of the S.A.C. (south undergrad houses basement). Note that we will be meeting in this room, not in the Y lounge, henceforth; also, movies will be shown in this room rather than over at Catalina. We have new speakers, a desert star party, a mass bookstore raid, and succession to discuss, so be there or lose your voice. Our movie will be announced on posters around campus; for more information call Mark Looper at 304-0006.

DarkRoom Users' Group

The DarkRoom Users' Group (DRUG) will have its second-term organizational meeting TODAY, Friday 8 Jan. 87 at 2 pm in the Darkroom (Room 39 of the S.A.C. (south undergraduate houses basement)). Come see our new equipment, including a Beseler 45MXT enlarger and a Beseler 23C enlarger with dichroic colorhead and color analyzer. Dues for the remainder of the year are \$7.50, and the refundable key deposit is \$10. Storage space is available for rental; see the Darkroom door for details. We will draw up a wish list on which to spend dues money, so be there or lose your voice. CaLl Mark Looper at 304-0006 for more information

ACADEMY BARBER SHOP

27 No. Catalina, Pasadena Open Tues.-Sat., 8 A.M.-5 P.M. 449-1681

Second Term Guitar Classes

Guitar classes for second term will meet on Tuesdays starting January 12 in Rm. 1 of the S.A.C. The schedule is as follows: Beginning guitar class: 4:30-5:30 pm Intermediate guitar class: 3:30-4:30 pm Advanced guitar class: 5:30-6:30 pm

Classical and flamenco repertoires will be explored but the techniques transfer to other styles of guitar. The beginning class also includes a new jazz and folk chord system. Classes are free to Caltech students (and other members of the Caltech community, space permitting). Undergraduates can receive 2 units of credit if they choose. Private instruction on any level can also be arranged. The instructor, classical guitarist Darryl Denning, has an international recording, teaching and performance background and can be reached at (213) 465-0881.

Medieval/Renaissance Society

The Caltech Medieval/Renaissance Society is having a meeting and potluck lunch this Sunday, Jan. 10 at 3 pm in the Y Lounge, Winnett Student Center. We welcome all interested members of the Caltech community

Where Is the Women's Room?

The Organization for Women at Caltech is proud to announce the opening of its new office/library/reading, discussion and hanging-out room in the basement of Winnett. (Room 1A). To celebrate this longawaited event, we are throwing a Room-Warming Party on Thursday, Jan. 14 from 4:00 to 6:00 pm in (and around) the office. Everyone is invited to drop by and see what we have to offer, while sipping champagne and sparkling cider and munching on little munchies. Donations of relevant books, cartoons, magazines, archival OWC materials and other fun things are welcomed. For more information, call Erica at x6538.

Fastpitch Softball

"Pickup" softball games to be held weekly, Sunday afternoons at 1 pm. At first, we will be use Jefferson Park (Villa, east of Hill) until the Caltech field is available. Come early! For more info call Steve at (818) 577-0365.

SING!

New members are gladly accepted for the new term for Men's Glee Club and Chamber Singers. Contact Don Caldwell at x6197 or Rm. 3, SAC. Rehearsals: MGC-M 7:30-9:30 pm, W 5-6; CS-T 5-6:30, Beckman Auditorium Basement. Spring Tour...Renaissance Banquet...All-Mozart Concert!!

Iran-Iraq: Two Lectures At 8 PM Wed. Jan. 13, Prof. Richard

Dekmochian, Chairman of the Poli. Sci. dept. of USC, will lecture on, "The Iranian Revolution: Islam, Leadership, and Foreign Policy.

At 8 PM Wed. Jan. 27, Dr. Fathi Osman, former Editor-in-chief of Arabia: The Islamic World Review, and Mr. Roozbeh, Dept. of History, UCLA, will lecture on "The Iran-Iraq War: U.S. and Arab Policy."
Both talks will be held in Rm. 24, Beck-

man Labs. Sponsored by The Middle East Studies Group, The Caltech Y, the GSC, and ASCIT. For more info, call 356-6163.

PARIAN TRAVEL

Most courteous, economical and efficient service

for your official and personal travel needs.

Free service to you.

For an introductory offer a complimentary \$50.00

worth of fine dining checks will be offered with the

(818) 577-8200

468 S. Sierra Madre Boulevard, Pasadena

Caltech Officially Approved

Uneasy & Intimate?

This Tuesday, Jan. 12 at 12 noon in the Judy Library in Baxter, Dr. Pnina Abir-Am will present "Uneasy Careers and Intimate Lives: Women in Science from the French Revolution to the Present." Dr. Abir-Am, a Visiting Scholar in the Department of the History of Science at Harvard, will focus on the mutual impact of family life and scientific career for both individuals and groups of women. Tuesday's talk will span two centuries, two continents, many scientific fields, and a diverse set of personalities. Please bring your lunch and your curiosity!

We Give Up. Why Do They?

On Wednesday, January 13, Dr. Martin Rees, Director of the Institute of Astronomy and Plumian Professor of Astronomy and Experimental Philosophy at Cambridge University in England will give the 1988 Charles and Thomas Lauritsen Memorial Lecture in Beckman Auditorium. The talk, at 8:00 pm, will be on "Why Do Galaxies Exist?" Admission: free. For more information, call x4652.

Tax Reform And YOU!

Mr. Rex Root, a Taxpayer Service Specialist from the Internal Revenue Service, will be in the Winnett Lounge on Friday, January 22 from noon to 1:00 pm. He will address the issues of Tax Reform and its effect on students and scholarship income. Please come with all your questions. (Brought to you by the Financial Aid

Run For Children

The Child Educational Center presents the First Annual Angeles Forest 5-mile Cross Country Run, to be held on January 9, 1988 at 8:30 am. This will be a true Eu ropean style cross country run beginning and ending at Oak Grove Park in La Canada. The run will cross the Arroyo Seco Creek, Devil's Gate Reservoir and enter the Angeles Crest Forest north of JPL. WARNING: this cross country run will cross the Arroyo Seco Creek in several places. Footing on equestrian trails is hazardous. You will get your feet wet. In several places you could lose your footing. To insure your participation please register no later than 8:00 am on the day of the race. Overall male and female winner will receive an award from Sport Chalet in La Canada. Division winners will receive trophies. A special trophy will be presented to the first male and female CEC parents. All finishers will receive medals. Proceeds of the event will be designated to the Child Educational Center, which is sponsored in part by Caltech and JPL. Fees and donation for the race, which get you a Tshirt as well as the aforementioned stuff, come to \$16.

Poetry Reading at Huntington

There will be a poetry reading by Robert Mezey, reading his own work on Thursday, January 21 at 2:00 pm at the Huntington Library. Robert Mezey, professor of En-glish and poet-in-residence at Pomona College and Claremont Graduate School, will present this program in the Overseers' Room of the Entrance Pavilion. This program is supported by the California Arts Council.

Help Wanted (Help!!!)

The Caltech Coffeehouse is looking for additional managers and waiters for immediate employment. Positions are open to current Caltech students only. Please stop by the Coffeehouse on Friday, 1/8/88 at 4:30 if you're interested in either position or see Earl Taylor, x3762, if you have a question about either position. The money is good, benefits are delicious and just think about the prestige...

Give More Blood

There will be an American Red Cross Blood Drive on January 13 from 9:45 am to 2:30 pm in Winnett Lounge. Contact Denise, x6374, for an appointment if you can plan ahead. Walk-ins are welcome also.

Fine Film Fare

In conjunction with H 131: History Through Film, Prof. Rosenstone will be screening a series of excellent feature length films at 7:30 pm on Wednesday evenings in Baxter Lecture Hall. These screenings are open to members of the Caltech community. There is no admission charge. The feature for January 13 is *The Rise of Louis XIV* (France-1966), directed by Roberto Ros-

Cinematech Magnificence

Cinematech opens its second season with Orson Wells' The Magnificent Ambersons. Made immediately after the classic Citizen Kane, this film tells the story of young George Amberson whose insolence and ambition cause the people he has abused o hope for his eventual downfall. With the same Mercury Theater Players, this film has all the qualities which made Citizen Kane a masterpiece.

The show is at 7 and 9:30 PM tomorrow, Jan 9, at Baxter Lecture Hall. Admission is \$1.50. For more information, call James Shih at 356-3968.

German Movie In Baxter

There will be a showing of Die Blechtrommel on January 11 at 7:30 pm in Baxter Lecture Hall.

Oskar Matzrath was born in Danzig in 1924. From his third birthday on he refused to grow in order to escape as "little Oskar" the bigotry of his environment. With a glassshattering cry and enervating protest drum-ming. Oskar distances himself from his surroundings in a society which is in the process of lepsing into fascism. Oskar, the perpetual child, sees the changes which the high policy brings about in the life of the little people, witnesses the breaking up of personal relations and the collapse of the Pan-German Empire. Only after the Germans leave Danzig and are forced to retreat to the West, does Oskar give up his growth protest-and wants to have a say in the future. Directed by Volker Schlondorff, and starring Mario Adorf, Daniel Olbryschski, and Angela

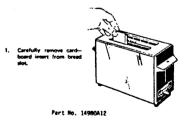
New Coffeehouse Periodicals

The Caltech Coffeehouse is pleased to announce five new subscriptions: Time, The New Yorker, Rolling Stone, New York Times—Daily and Satellite T.V. Weekly (for use in the TV room). We would appreciate your leaving these magazines (as well as the comics) in the Coffeehouse so that the rest of the community can enjoy these publications as well. Thank you.

New Health Center Hours

Effective immediately, the Health Center will be open from 8:00 am to midnight, Monday through Friday. From 8:00 am to 5:00 pm, the staff will include a female Nurse Practitioner and a male Physician Assistant. From 5:00 pm to midnight, there will be a female Nurse Practitioner on duty. In addition, the hours of the staff physicians (both male and female) have been extended to allow for more accessibility. (In case you're interested in the difference between a Nurse Practitioner and a Physician Assistant, a Nurse Practitioner is a Registered Nurse with advanced medical training (usually 2 years) in diagnosis and treatment of common medical problems. A Physician Assistant has the advanced training, but is

TO PREPARE TOASTER FOR USE:



continued on page 7

The California Tech

Pasadena, California 91125

\$4.00 OFF **STUDENTS** Shampoo, Style Cut

> MEN Reg. \$18.00 NOW \$14.00 WOMEN Reg. \$22.00 NOW \$18.00

> > 449-6967

1009 E. COLORADO • PASADENA

Offer valid with this ad only, Monday thru Friday