Connect The Dots THE CALIFORNIA TECH LaLaLa

VOLUME LXXXVIII NUMBER 29

PASADENA, CALIFORNIA

FRIDAY 29 MAY 1987



Dwight Berg lofts the softball to Derek Ney, who will try to hit it to the limit, the Caltech sign. The contest was part of the first annual Memorial Day Picnic.

Zewail Wins A Guggenheim

[CNB]-Dr Ahmed Zewail, professor of chemical physics at Caltech, has been awarded a Guggenheim Fellowship by the John Simon Guggenheim Foundation of New York City to support his research on ultra-fast laser chemistry. Zewail is one of 273 scientists, scholars and artists selected from among more than 3,000 candidates for the fellowships, which are awarded annually on the basis of outstanding performance and future potential.

Dr Zewail has pioneered the development of ultra-fast laser techniques for recording the behavior of molecules during chemical reactions. His work is yielding the first precise measurements of the rates at which molecular bonds are forged and broken. Dr Zewail's research will also be applied to the development of laser selective chemistry in which custom-designed, lasermade molecules may be created in the laboratory.

Dr Zewail will use the Guggenheim Fellowship to develop new laser techniques to study molecular activity that occurs within one quadrillionth of a second, the amount of time it takes for atoms to link up to form several kinds of organic molecules. This research, aimed at producing the first recordings of the "birth" of molecules in real-time, is also expected to shed light on some of the most important and elusive reactions in organic chemistry.

Born and educated in Egypt, Dr Zewail received his BSc from Alexandria University in 1967. He earned his PhD from the University of Pennsylvania in 1974 and spent two years on the faculty of the University of California before joining Caltech as an assistant professor of chemical physics. He was appointed associate professor in 1978 and professor in 1982.

Noland Winners: Gómez and Weaver

by Jeanne Noda

Two Noland Leadership Awards were presented at dinner in the Athenaeum on May 26. Each of this year's winners received a check for \$1,500. The Noland Leadership awards are made available by the Ametek Corporation in honor of its president, Mr Robert L Noland, who graduated from Caltech in 1941.

These awards are intended to encourage and reward the development of leadership qualities amongst the scientists and engineers who, they hope, will one day be heads of industry. Ametek wishes to recognize not only those who take charge in leading others but also those who inspire and encourage others to fulfill their leadership potential.

Stephen Gómez, currently a senior in biology, receives the award for the influence he has had on the quality of undergraduate life at Caltech. At least, for the good parts.

Gómez has held a number of

House offices during his tenure at Caltech-beginning as Dabney House "Repairman" in 1983 and concluding as Chairman of the Interhouse Committee in 1986. In each position, his interactions with Caltech faculty and administration have been thoughtful and constructive. Gómez can also be credited with nurturing a greater feeling of cooperation between the houses.

Gómez's contributions to the Institute community have also been noteworthy. He was a member of the Morale Committee at the 1986 Student/Faculty Conference. That Committee's proposals have led to major revisions in the Institute's academic calendar—lengthening the breaks between terms. As a student representative on the Health Committee, Gómez generated student insurance coverage that the Institute now has a dental plan and a more responsive health insurance system for all students.

Sam Weaver, a junior in apenough concern over the quality of **continued on page 6**

Fishbone at Oxy

by Nancy Drehwing

It's here...it's FISHBONE! Yes, folks--the concert is tomorrow and you'd better get a ticket NOW. They are free to all Caltech undergrads, available in the MOSH's office, from all house presidents, and Nancy D. Two guest tickets are allowed per student. Please sign out your tickets so we can keep track of how many were issued compared to how many showed up. Remember:

1) There is a free shuttle service leaving Caltech from the corner of San Pasqual and Holliston.

2) The concert begins at 2PM with an Oxy warm up band, then

Fishbone plays. It should all end around 5_{PM} ... then there is a party here in Blacker courtyard in the evening. Oxy has neglected to inform me of their party situation that night; fend for yourselves.

night; fend for yourselves. 3) NO kegs, NO glass bottles. I'm not sure about cans or how strict Oxy is about minors, so you may want to be cautious.

4) I want at least two people from each house to do odd jobs on Saturday-runners, ticket takers, security, and clean up-TODAY!!!!! There will be pizza afterward for the crew. Call Nancy at x3691 and leave your phone number.

William L Johnson, professor of materials science. Dr Johnson is a leader in synthesizing and characterizing amorphous alloys and also studies superconductivity.

Marc A Nicolet, professor of electrical engineering. Dr Nicolet's research group is undertaking a number of projects on the subject of thin films.

Thomas A Tombrello, professor of physics. Dr Tombrello is interested in the effects of ion bombardment on surfaces, the development of analytical techniques, the simulation of ion-solid phenomena. and the computer control of experimental apparatus. Thad Vreeland, Jr, professor of material science. Dr Vreeland works on the shock-wave consolidation of powders, emphasizing the formation of materials with high strengths and wear resistance. Short talks by several members of this new group are going on today in 147 Noyes.

Dedication of Materials Research Lab

[CNB] – Today is the second day of the dedication program for the new Caltech Materials Research Group Laboratories. The program consists of scientific talks by invited speakers, tours of the new facilities, and a banquet.

Funded by a three-year, \$2.7

for ion-beam bombardment of materials.

To analyze and characterize materials, the laboratories have an extensive array of X-ray diffraction equipment, including a double crystal diffractometer, an extended X-ray absorption fine structure spectrometer, a Rutherford backscattering spectrometer, a Mossbauer spectrometer, and a new differential scanning calorimeter and differential thermal analyzer. The researchers are particularly pleased to have a state-of-the-art Philips 300 KeV transmission electron microscope with scanning and analytical capabilities. The new direction planned for materials research at Caltech are rooted in its recent past. The late Professor Pol Duwez was renowned for his development in the early 1960s of the first metallic glasses. According to materials scientists, metallic glasses may be the first of a large and important new class of nonequilibrium or "metastable" materials. Studies of the properties and synthesis of metallic glasses and other metastable materials have been an important area of research at Caltech ever since Duwez's pioneering work.

ability to design new materials increasingly rests on our understanding of materials on a fundamental level; this is especially true as we continue to extend the limits of materials performance. Concurrently, the more fundamental fields of physics and chemistry are beof Chemistry and Applied Physics. His research interests focus on reaction mechanisms, biological oxidation, the electronic properties of surfaces, and the dynamics and simulation of biological and surfaces processes.

David L. Goodstein, professor

million grant from the National Science Foundation and Caltech for equipment and personnel, the new laboratories will be a place where a multidisciplinary group of worldclass researchers can work with the most modern instruments and facilities available anywhere.

"Caltech has long excelled in materials research," noted president Marvin L Goldberger. "These new facilities will enable us to continue to work on the frontier of this most important field, a field that will produce the very substance of the future."

The Caltech Materials Research Group Laboratories will consist of two types of facilities: those concerned with the *preparation* of new materials and those concerned with the *analysis and characterization* of materials. In the materials preparation area is equipment for the shock-wave consolidation of powders, for physical vapor deposition under ultrahigh vacuum conditions, for high-energy ball milling, and

Says Brent Fultz, assistant professor of materials science, "Our coming sufficiently sophisticated that complex problems of importance to materials science can be analyzed. Within the Caltech Materials Group, it is our expectation that the orientation of materials science toward the more *fundamental*, and the orientation of physics and chemistry toward the more *complex*, will permit the convergence of interests between our different investigators."

The members of the Caltech Materials Group are:

Richard Flagan, professor of environmental engineering science and mechanical engineering. Dr Flagan works on the formation and characterization of aerosol particles and on combustion.

Brent Fultz, assistant professor of materials science. Dr Fultz studies the submicroscopic arrangement of atoms in iron alloys and how these arrangements affect the properties of alloys.

William A Goddard III, the Charles and Mary Ferkel Professor of physics and applied physics. Dr Goodstein's recent research has been in the fields of adsorption and desorption, two-dimensional matter, phase transitions, and the propagation and transmission of thermal phonons in solids.

Robert Housley, visiting professor of physics. Dr Housley studies several topics in experimental solid-state physics including crystallization, crystal vibrations, surfaces, and superconductivity.

Eat Meals for Free

In order to update the restaurant guide of the *little t*, we will pay you up to \$10 to eat at a restaurant in the Los Angeles area and to review it for the guide. We will pay up to \$5 dollars for reviews of restaurants that are listed in the latest *little t* and up to \$10 for reviews of new restaurants. You must contact David Bruning (356–9111, or x6154, Rm 128 Page) or Michael Keating (578–9833, or x6154, Rm 238 Page) *before* you visit the restaurant. All members of the Caltech community are invited to take part in this offer.

OPINION

Students To Battle Illiteracy

by Warren E. Burger and Edward M. Kennedy

An idea has been presented to Congress that is worth trying in the battle against illiteracy: to create a Literacy Corps that will enable college students to volunteer for a few hours a week as assistant teachers for students in nearby public schools or other institutions in return for college credit.

We pride ourselves on being an "advanced nation," but illiteracy in America is at a level no nation should tolerate. Vast numbers of Americans lack the basic reading skills to function in society.

According to one estimate, twenty-three million citizens over the age of 18 cannot read the poison warning on a can of pesticide or a package of cigarettes, the headline of a daily newspaper, or a letter from their child's teacher. An additional thirty-five million are semi-literate, reading so poorly that they barely function at a survival level.

That makes 58 million adults, roughly a third of the nation's population over 18, whom our system of education failed in their adolescent years and who are functionally illiterate today. The result is a massive problem of illiteracy that costs the nation heavily in welfare and unemployment, industrial accidents and lost productivity, and dead-end lives of crime and drugs.

Illiteracy is also a threat to our constitutional system: how can a

functional illiterate really understand that system or defend it effectively? Even if some of these figures are overstated, at best the picture is bleak.

A recent study complained that America has slipped behind Japan in the quality of education, but the truth is, we have slipped behind 47 other countries, too. America ranks 49th in literacy among the 159 countries of the world!

To Address the Problem

So far, we have not addressed this problem very effectively. The Federal Government spends billions of dollars every year on education, but only a pittance is targeted on illiteracy. In fact, total spending on illiteracy in the United States reaches only four percent of those who need help. The National Advisory Council on Adult Education estimates that we would need to spend five billion dollars-fifty times more than is allocated today-to have a significant impact on the problem through costly traditional programs.

New spending of that magnitude is out of the question because of the federal deficit. The challenge is to persuade America to do more without spending more. That is a tall order, but it is not impossiblewhich is where a Literacy Corps would come in.

Pilot programs at the University of Miami and St John's University in New York City, relying so far on corporate donations, have made a start that provides a pattern. The results of these modest efforts are so compelling that the time has come for a national effort.

Legislation pending in Congress seeks \$27 million over the next two years to launch Literacy Corps projects at approximately a thousand colleges and universities across the country. The bill will provide start-up grants of about \$25,000 per college to cover the initial administrative costs of campus programs.

Participating college students would sign up for electives offered by their colleges and taught by their professors in semester-long courses comparable to those in "clinical legal education" at many law schools, although the focus of the Literacy Corps would be very different. As part of the course, college students would be given instruction on how to tutor in reading. In addition to teaching in local elementary and high schools, Literacy Corps participants could also tutor in Head Start centers, institutions for the disabled, adult continuing education programs, jails, or other facilities where supervised classroom-type settings are available.

In a typical ten-week semester, each college student in the program would provide 60 hours of tutoring. If a thousand colleges participated, 100,000 or more students might join the Literacy Corps, and a very large amount of tutoring could be generated over the next two years.

In addition to tackling the problem of illiteracy, a Literacy Corps has another benefit-harnessing the idealism, and volunteerism, and the commitment of young Americans. So far, initiatives in this area have been stymied by the high price of conventional proposals such as a National Service Corps or ROTCtype scholarships or loan forgiveness programs for students willing to commit themselves to a period of post-graduate public service.

Eager Young Americans

We believe a Literacy Corps has all the potential for today that President Kennedy's Peace Corps had in the 1960's. Young Americans in this generation are as ready, willing and eager to respond to the challenge of public service as their parents were a generation ago, when President Kennedy urged them to "Ask not what your country can do for you—ask what you can do for your country."

If colleges and universities across the country respond by accepting the Literacy Corps as part of their educational process, **continued on page 5**



CHARIOTEER Alan Kwentus

THE CALIFORNIA TECH 107-51 Winnett Student Center California Institute of Technology Pasadena, California 91125





Law Offices of Denise M. Breakman & Associates

1101 E. Garvey Ave., #104 Monterey Park, CA 91754 *Consultation ask for: Attorney* Stuart Folinsky *Paralegal* Miss Ding Tel: (818) 573-3700 A taste of Athens

fine greek cuisine 924 E. Colorado Blvd. Pasadena (818) 793-6664 Evangelos and Voula Hiotes



20% off all Dinners with Caltech ID

All sandwiches \$3.25 with Caltech ID

¹/₂ price softdrinks • 90¢ domestic beer (with CIT ID & purchase of sandwich)



TAKE A BREAK!

ASCIT FRIDAY NIGHT MOVIE

Beverly Hills Cop

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

NEXT WEEK: Fritz The Cat

in ACAPULCO

Mexican Restaurant & Cantina

Relax and enjoy HAPPY HOUR with us!

Complimentary Appetizers!Daily Drink Specials!

Two Nearby Pasadena Locations:

2936 E. Colorado Bivd. Btwn. San Gabriel & Madre 795⁴248 Happy Hour: Mon.-Thur. 4-7 Friday 4-close

© 1987 Acapulco Rest. Inc.

2060 E. Foothill Blvd. Btwn. Allen & Sierra Madre 449-7273 **Happy Hour: Mon.-Fri. 3-6**

3-87

Phone: [818] 356-6154

Published weekly except during examination and vacation periods by the 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 IBMcompatible, WordStar-formatted floppy disk) to the *Tech* office mailbox, room 107 Winnett. The deadline for copy is Wednesday at 5PM; for announcements, Tuesday at 5PM. 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), \$100 per life.

Printed by News-Type Service, Glendale, California

ISSN 0008-1582

THE CALIFORNIA TECH

FRIDAY 29 MAY 1987

ENTERTAINMENT

Not Another Hole in the Ground

by Bengt Magnusson

"No," you think, "not another one of these weird articles about strange stuff in museums, which nobody in his right mind wants to look at, much less read about!" Don't stop reading; this article is written especially for you, and not for art nerds.

I promise that "Double Negative" is quite different from your preconceived ideas about modern art. First of all, it is not in a museum; it is located in the desert in southern Nevada. This means that you cannot lose if you go to see it. Even if you do not like it, you still get a nice road trip to clean air, black, night sky, and the desert.

I will describe the road to get there carefully, for it is a little tricky. Take I-15 from Los Angeles to Las Vegas, and exit right in Arden, Nevada onto route 146 and follow it to Henderson. In Henderson the road changes its number to 147. Soon you reach a three-way intersection between the 147 and 166. Go left onto the 166 until it becomes the 167 and finally the 169. All this time you are following signs toward Overton and heading generally north or northeast. Do not confuse Overton with Overton Beach.

Double Negative is located on Mormon Mesa just east of Overton. There is a huge white "M" on

the slope leading toward the mesa. Take the main street through Overton until you reach a sign to the airport: as the main street bends slightly to the left, you turn slightly to the right. Pass the airport on the left. Once the road ends, follow the dirt road across the mesa until you reach Double Negative, a few miles from the intersection.

Double Negative is a 1500' by 50' by 30' trench cut on both sides of the canyon. It was constructed by Michael Heizer between 1969 and 1971. He led a team of workers who moved 240,000 tons of sandstone and rhyolite to created the work of art.

Double Negative is built on opposing sides of a short U-shaped canyon cutting into the mesa and consists of two halves. The title is self-explanatory: "double" because of the two similar halves and "negative" because it is cut into the mesa. Material has been removed, not added, so the work of art consists of an absence of material, a negative. The two halves are not exactly identical. One is about four times as long as the other, but they are aligned perfectly across the canyon. From an airplane it looks like someone put a gigantic circular saw into the mesa.

Each half begins with a uniform 45 degree slope that leads down to the flat bottom of the trench. The sides are as smooth and straight as the brittle sandstone permits. Before the canyon there is a flat bulldozed swath, made from the material that was removed to create the trench.

One word best sums up Double Negative: monumental. Its size and its time scale are enormous. Neither erosion nor vandals will be able to alter the monument within human scales of time.

For two brief moments each day both walls are sunlit. Walk through the trench then, and watch the play of light of the walls, As the shadows grow, you can concentrate on the whole.

How divided it is! In between is a flat, desolate area and a large gap, which, however, could be bridged. You can carefully strug-gle through the "U" of the canyon, or you can turn around and follow an alternate route across the mesa. You will not be able to straddle the halves.

Inside Double Negative the walls loom high above you. It has become a large, silent sentinel that will remain unaffected and constant. Double Negative is this, and more. It is the result of a long artistic tradition and a symbol. I encourage you to see the work. You can't lose, because if you do not like the work, you will still get a nice trip to the desert.

The Inside World

Blacker I: OK, no more scathing bitterness, no more biting comments about hovse [sic] scum, no more sarcasm about Alex Wei, and no more doucebag redneck smalltalk. This is the new improved, moderate Blacker Inside World. Brought to you by DabniCorp.

So next time you get pissed off by something in the illustrious column before your very eyes, go straight to the source, kill her, and scatter her limbs about campus. Then, leave a sign on Dave Wittman's door, saying, "Look, she's not here. She's dead. I killed her." Then, sit back and watch Nathan kill Dave (within minutes after she's dead because he checked Dave's room for her about 882 times a day or about once every two minutes.) Voila, problem solved. Until we get two of our seventy other rednecks to write the column. Shouldn't take too long. Maybe we'll get Ted and Shubber back for some red opinions from the other side of the fence. Sorta guest authors, you know?

OK, so maybe the first paragraph was a lie. A complete lie. A lie so vicious, I bet even She couldn't be more vicious. Ask Dave..., I mean Nathan, about that. Boy, jeez, Gad, I don't know.

Sorry about the hate seeping off the page into your lap, but this is Blacker Hovse, Hovse of Gracious Fallacious Living. We do tolerate anything here in Blacker Hovse, as long as it's not a Darb, Scurve, Flem, Boy, Lloydie, or Rudd. Or a flat chested woman. Oh, sorry Irene, Nancy, Margi, etc., etc. Gotta run. They're after me.

Blacker II: Song for the week Why don't we do it in the road? No one will be watching us Why don't we do it in the road?

Saturday was the Tanning Invitational. I was there, and I didn't win the whitefish contest. Neither did Nancy. Dave Cole was there, too, finishing strongly in the women guzzling contest and making music that was somewhat, but not too much, unlike a depraved Kung-fu movie actor squashing a hamster wrapped in electrical tape with a wine cooler bottle filled with stale Lowenbrau and Clorox. A good tan was had by all, except Clea.

Things Brian Daniels does not like:

1. Thumper

2. Playing thumper in Fleming

3. Moles playing thumper in Fleming

Therefore, Fleming invited several moles to play thumper in their lounge this weekend. Thanks and all, but the sound effects and the wine coolers just didn't hack it.

The Memorial Day Picnic was, uh, unmemorable. The food was unmemorable, the softball game was unmemorable, and I don't remember what else happened.

A few happy campers and a baby went to Irvine for the 1987 Festival of Animation. Even so far from Tech, it's nice to know that it's still Brad's fault. life is sweet. pluhar, let's go get some ice cream.

PW and Lane

-Redneck #34

Play It Again, Sam Tonight

by Plaigh Wrighte

Play It Again, Sam, Woody Allen's comedy about a romantic recovering from divorce, is TACIT's spring production. Featuring Don Huntington as Allan Felix, a film critic who idolizes Humphery Bogart (grad student Ted Woodward), this play explores the difficulty of love in the modern world. Huntington is ably supported by Elisabeth Scott as Linda, and Dave Stevens as Dick, Allan's best friends.

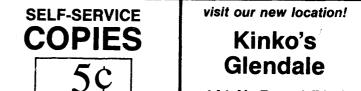
Performances are at 8:00PM Friday, May 29, and Saturday, May 30, with a 2:00рм matinee on Sunday, May 31. Tickets are available through Ticketron and the Caltech Ticket Office, and are \$4.00 for students, \$6.00 general.



Bogart (grad student Ted Woodward in center) gives Allan (Don Huntington) advice about how to deal with Linda (Elizabeth Scott).



Blacker III: One more week and we'll be gone. At least we're leaving good old Blacker in the hands of respectable people like um, well, our girls. Yeah. You know, it warms my heart to see the courtyard full of such cheerful and enthusiastic young faces every night at dinner. Just like the old days. And our president. She gets along with everyone beautifully. Why, just...oh, never mind...and then he took the knife out of its sheath and began to wander through the crowd and stab people randomly. Couples dancing would suddenly collapse to the floor as the girls began screaming. Soon the sounds of the party were mingled with the screaming and shouting from the downed guests. He put the knife back in its sheath and smiled as he stepped over Tom and his girlfriend and refilled his champagne glass from the fountain. Summer room pick was great. I think that everyone was happy this time. We kept the good rooms and left the others to the riff raff staying in Blacker this summer. The best thing about summer, he thought, is that the campus security force is smaller and it will take longer for them to get here with the police. He put the knife on the table and took off his gloves, chuckling to himself. Finals week is here, seniors...are you going to graduate or just look stupid when your family and friends show up in a couple of weeks for commencement?? He slipped out of the room in all the confusion and walked casually across the lawn to his room. He felt confident that they would never suspect that a student would actually intrude on the Athenaeum like this. Besides, even if they caught him, the MOSH would protect him. This is Caltech, after all, and everyone will have heard that you're graduating this year and there'll probably be a hundred of your closest relatives here. But suddenly she burst into the most outrageous fit of giggling he had ever seen. And the dog, too. What would your sister continued on page 4



We feature:

- CHICKEN TAVOUK KEBAB
- FRESH SEAFOOD SPECIALS
- **GOURMET GIANT HAMBURGERS**
- DAILY SPECIALS ON THE BOARD
- Refills on Soft Drinks and Salad Bar

all at reasonable and affordable prices all include French fries or rice pilaf, infinite salad, peta bread and butter

For the Entire Month of June

A FREE ROOT BEER FLOAT TO ALL FRESHMEN AND SOPHOMORES

FACULTY, GRAD STUDENTS, ATTEND! MONDAYS & TUESDAYS ARE BEER DAYS. HALF PRICE ON BEER.

535 SOUTH LAKE AVENUE 1/2 BLOCK NORTH OF CALIFORNIA

Open 24 Hours SEVEN DAYS A WEEK (but not 24 hours) Copies beyond belief from state-of-the-art Xerox copiers for great-looking flyers, newsletters, brochures, theses, reports, and resumes.

Print quality and incredible speed at prices that will astound you!

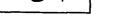
kinko's 827 E. Colorado Blvd. Pasadena (818) 793-6336



ALWAYS 10% OFF

WITH YOUR

CALTECH ID



kinko's copies

441 N. Brand Blvd. Glendale (818) 500-1811

NOW OPEN!

4 the california tech

FRIDAY 29 MAY 1987

More Inside World

from page 3

say, she thought, if she saw the three of you right now? It was clear that she wasn't going to stop anytime soon, so he pulled the trigger. The dog screamed and ran off down the street. The girl dropped to the grass, clutching at her throat. And James said we were broke at dinner on Tuesday. It doesn't matter, though, because she'll never live to tell anyone anyway.

-Weirdo

Dabney: And now the description of last week's Ditch Day Column: Dabney had a very interesting column. Underclassmen sought clues around their minds in order to find the words for the column. However, they were baffled for many hours, but eventually were successful in writing the column. It goes without saying that being creative was very challenging. Many of the paragraphs were concerned with repetition. Stan and Don had a good time. In other news:

Dabney House, The Reagan's Cabinet of Excoms. Vice President, Secretary (twice!), Social Veep, Chemist... what a year. (By your leave.) And the Man from Nine U

The MittMites are growing. Growing and spreading. The thought of such beings on grades boggles the mind. Tis but a term ... and now the spectre draws near. Lights at ends of tunnels...Coke machines or oncoming trains? Gee, wonder if the Blacker IW will mention Lake Tunnel? Prob'ly not. Too busy with names and things. Sure glad we don't have any problem with that, do we, editors? [No problem here. -Ed] So I will.

There's this problem with free association. It becomes self-referential altogether too easily . . .

And so it ends. Soon. (July 3, for you WM freaks...) And the particles and the boxes, little boxes, all the same, make pretty designs at the ends of loud bands. Well, I do blow my nose, but not that loud. And I don't drink. And you can't dance to it.

Mucous and receptacles become far more interesting when mixed with ethanol and nitrous oxide. Southern Man was great. And Casey Jones...never heard it done *quite* that way before. And the *women!* Short, ridiculously short, skirts. And mere days earlier, high scholars...well, at least trying. Scratch, scratch. "Hey, *he* looks like a Techer!" No, I have absolutely no idea where you can buy drugs. This ain't 1982, you know. There's a new morality sweeping the country, and a new man in the White House (and in room 20). There's no such thing as a free lunch no more. Off with their heads! For thine is the kingdom and the power and ... are they gone?

Housing crunch? Us? Nah... we've got our secretary living in a double as a single. You other houses can just sit on your thumbs and ... Games in the basement. "If you belong here and think that this doesn't, contact X in room Y." "Nice rooms ya got 'ere. Wouldn't want anythin' ta 'appen to 'em, woodya?" Sure hope we can get *in*, come fall. Otherwise...ever yeard of a window? Ever heard of the preferred method for dealing with them? No, well, it's called a loq-pikk. About 3 kg, ovoid, grows all over in the dirt.

Watch for a ghostwriter in next week's IW

-The editors screwed up again

Lloyd: Well, last week we were sitting in Choy's room when Haba walks in and says "Ah, I gotta good idea for the ah inside world, ah, can me and Jeitner write it, ah?" The rest is history. It's not much better this week, but that's life. I don't think we'll be using this format much longer....

Casey Kasem's American top 10

Folks, this week we'll be taking a surprise look at those crazy students at Cal State Poly and their nutty pranks. We all heard about the Hollywood sign being changed to read "Fox Broadcasting," but let's take a look at some of the students' less well known pranks. Here we go with the top 10.

Entering the charts at number ten this week is a crazy stunt where the students actually convinced reporters from the National Enquirer that top scientists had determined that Halley's comet was a ball of dust and ice orbiting the sun in a highly eccentric orbit which visits the Earth every 76 years-not the harbinger of doom and omen of ill-fortune they really know it to be.

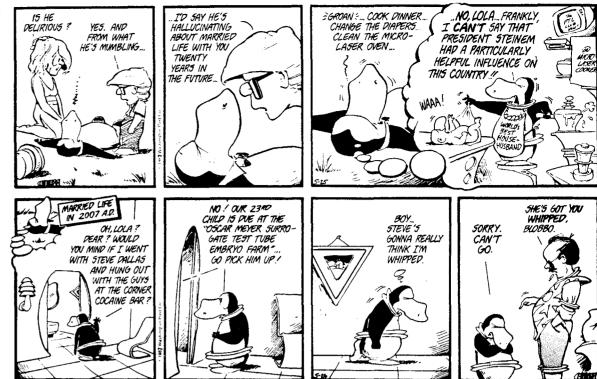
Stunt number nine this week had the students selling arms to Central American Contras and channeling the money through Iran! Stunt number eight was the sinking of the Titanic by a Dwight . . . never mind; that was an ICE Berg.

Prank number seven is one you can really dance to! Ingenious students removed the O-rings from the space shuttle boosters and replaced them with

colder, stiffer ones. Those nutty guys! Up two notches to number six this week is that old Rose Bowl scoreboard jest . . . students deviously installed complicated electronics so that the bulb in the third row, fifth column of the tens digit was ALWAYS on!

Now time to answer a question one of our viewers wrote in. Mr. Fred continued on page 5

Greg Susca Painting and Wallcovering Interior and Exterior



Bloom County



License	19–5646 #456757 Caltech community
LAEMMLE	THEATRES
ESQUIRE 2670 E. Colorado Blvd. (818) 793-6149	COLORADO 2588 E. Colorado Blvd. (818) 796-9704
Anthony Hopkins Anne Bancroft	3 Academy Awards ROOM WITH A VIEW
84 CHARING CROSS ROAD	plus Academy Award Winner Best Actress - Marlee Matlin CHILDREN OF A LESSER GOD

PATIO RESTAURANT

10% off.

Co.

15

"A unique restaurant with great food at a reasonable price." Elmer Dills, KABC TV

"Has a nice comfortable patio and inexpensive cuisine." -- Paul Wallach, Westways Magazine

Famous for our Swedish pancakes, open-faced sandwiches, fantastic omelets and delicious cakes and pastries

Open to serve you Monday thru Saturday 7:30 am-5 pm

Join us Sundays 8 am-4 pm

25 years in Pasadena Reservations accepted • MC and Visa accepted 230 S. Lake Ave., Pasadena, 818-792-8044 acres of free parking

THE CALIFORNIA TECH



by Berke Breathed



Illiteracy

from page 2

students will have the opportunity to participate by many thousands and America may at last begin to deal in more effective and affordable ways with the shameful and festering problem of illiteracy in our midst. One final point—the Literacv

on a model conceived in 1969 by an unusually creative private citizen, Norman Manaso of Washington, DC, who has been knocking on many doors for the better part of a decade seeking support for the concept. Manasa now heads the Washington Education Project, which is seeking broader corporate financing for the idea if Congressional action is too slow. In 1984,

Corps is not a new idea. It is based

Manasa wrote a very readable paperback elaboration in the program called *The Washington Education Project, Inc. – or How You Can Get a Tutor For Your Kid, Just Like Rich People.* It may not be on the best-seller lists today, but it deserves to be on the shelves of every college bookstore in the country-and perhaps it will be. The Literacy Corps is an idea whose time is overdue.

More Inside World

from page 4

Schneider of Athens, GA asks: "Who has gotten ragged on the most in the Lloyd Inside World?" We'll have the answer along with the top five pranks right after this...

Commercial Break

You know, it's become an American pastime to sit around and moan about the high cost of auto insurance. Are you too short, too curly, too wheezy, too annoying and do you make dinner announcements that would scare Bibi Jentoft-Neilsen off the back of a meat truck? [angry voice yells: "STOP IT! I LOVE HER!"] Who cares, this has nothing to do with driving skill. We'll insure you even if you drive a motorcycle... even if you live in Orange County... even if the accident was partly your fault... even if it was all your fault and you were drunk... even if you swerved onto the sidewalk on purpose to hit someone and then shot him with a .357 Magnum to make him stop crying... You STILL HAVE RIGHTS! We'll still insure you, and we'll represent you in court! Now Back to our program...

Well Fred, now for the answer to your question. It's a tie between Earl Taylor, who has been kanked on for lisping, being black, glomming mole women, having thick legs, and being Oprah Winfrey (just you wait), and John Haba, who has been nailed for lame dressing, shoulder shrugging, liking rap, being from Cleveland, and being irresponsible.

Now back to our countdown. Number **five** is really hot this week—it's the disabling of the anti-missile system of the USS Stark by some peace-loving pranksters. Number **four**'s an oldie but a goodie. Back in 1902 those industrious young men changed the face of William Henry Harrison on Mt Rushmore into Teddy Roosevelt! Officials didn't notice until 1939!

Practical joke number three this week was a more recent prank—the students wreaked havoc by taking over the studio of the TV game show Card Sharks. Hijink number two was the classic techno-prank: ringing neighborhood doorbells, then running away giggling.

And **topping the charts** this week is a brand new one the networks haven't quite caught on to yet: the kidnapping and replacement of Oprah Winfrey with student Earl Taylor! Ratings have gone up as people think Oprah has gotten cuter.

Tune in next week! Or don't!

–Jethro, Enos & Skeeter

Ricketts: The Mighty Maroon Machine rolled on, with stunningly lopsided games against Page and Blacker. The highlight of the Page game was the stunning tackle of Konstantin Othmer by one of our Athmen. It was the closest Konstantin's been to a girl in a year. In the Blacker game, Fingers Lengyel threw four touchdown passes. Unfortunately, only two of those were caught, and one was after the play had ended. He doubtless would have played better had his inspiration been at the game, but she did have to work.

Suspicious grad students noticed Diamond Dave lying under a car near Chandler. He claims to have been playing Capture the Flag. Speaking of Capture the Flag, Joe has still not carried out his threat to beat up Bruce Roberts, but we're waiting.

What does Ditch Day mean to you? Living out the Far Side? Defining the state of being of which this definition is...oh, never mind. Counterstacking because you didn't read the note telling where the bribe was? Racing Slinkys down the LD stairs? Chasing airplanes all over campus? Building a 40-foot tall tower, only to see it go up in flames? Finding someone's marbles? Getting up before 8:00AM and liking it? Finding a duck's head on your plate? All in

continued on page 6





FRIDAY 29 MAY 1987





THE CALIFORNIA TECH

FRIDAY 29 MAY 1987

More Inside World

from page 5

all, it was a grand day. (Rimrod says, Ditch Day's tomorrow, Frosh!) Other naughty bits: Diana was unusually quiet about her relationship with Jeff Greason. Informed sources, when plied with enough alcohol, reveal that Sam Southard may be the cause. Dan and Laura's trip to Rio went well. Just don't tell their parents. A special hello to Mr. and Mrs. Yee. Your daughter's behaving like a proper young lady. Trust us. Sorry, Randy, but if she thinks it's disgusting, there's nothing you can do about it. And just what is the Hoover-Zanelli connection?

Responses to gratification. Food: Thanks Mom, the brownies were great. Amusement: We bid a fond farewell to the Lady of the Pot, her arm clad in shimmering ash. Goodbye, Steve. Sex: Thanks. It was fun. I enjoyed it. She enjoyed it. What more need be said? And as promised, her name isn't mentioned. -Rimjob and Buttstar With love,

Ruddock: This week has been way, whippin' awesome. Beverly Hills Cop II came out and there was much rejoicing. Be sure to be at the all-campus photo session on the Ath Lawn at 4:30 on Friday. The Big party is at 9:00PM in the Blacker courtyard. Be there or be a Flem.

Yes, everything was a great success, but for some reason, we're still way, whippin' depressed. The following is but a small sampling of the shroud of depression which currently engulfs Ruddock House:

Manny is depressed because Kleber is depressed and also because Ed Mao is more of a lady's man than he is. Kleber is depressed because come next year, he won't see Laura anymore. Tung is depressed because Kent and Lloyd are representative of the few remaining seniors on campus. Sonny is depressed because he went to a Chinese BBQ with Bharthi. Cameron is depressed because Jeff Hartt stole his only true love. Greg is depressed because Chris Brennan [sic] has not sponsored a 7-house orgy. Smokin' Joe woke everyone up at 6:30. Biff ran out of gray tape for Rambo and it didn't matter. Colin lost all of his saved Starflight games.

Everyone is depressed because we haven't beaten Lloyd in a sport yet this year. (At least we don't have John Haba as president.) Plus, next year we have mandatory board/baklava. Alley three is depressed because Tammy Baker's face has been all over the news. Munir is depressed because his glasses attract ugly high school girls. (Rich Arrieta wants to borrow them.) Wayne is depressed because there are two new cats in the house and he has no gray tape. Kubo is depressed because Ed fired a dart into his inflatable Minako doll. Nik is depressed because Thu won't get him a Pepsi. Thu is depressed because all Nik wants is a Pepsi. Rich is depressed because jiz is up on his sofa, sofa. Finally, Milton is depressed because the Hari Krinshnas turned him down. I guess this means we're not all happy people anymore. Yes, we at Ruddock House are slowly realizing that life isn't a bowl of cherries. In fact we believe life is a bowl of pears.

-Frink Zappa

Caltech Checkmates JPL

by Nut O'Chess It was billed as "The Chess Match of the Century," and it indeed, it lived up to its name. Eight members of the Caltech Chess Club were pitted against members of the JPL Chess Club in a test of mental endurance, cerebral sharpness, and stuff like that. And after the last game ended over four hours later, the chess-type Beavers ended up ahead 5-3.

The players were positioned on boards numbering from one to eight, with the top player on board one, the next best player on board two, and so on. The Caltech team members, in order, were Gerard Jungman, Charles Conley, Tim Parrott, Huy Cao, Floyd Klavetter, Frank Perez, Scott Hemphill, and Ed Ratner.

Difficult losses were suffered

plied physics, receives the award

for his contributions to undergrad-

Weaver for this recognition

describes him as "not just a good

leader, but an exceptional one.'

Even though he is only a junior,

Weaver has already served as

The student who nominated

uate residential life at Caltech.

Leadership

from page 1

by Jungman and Conley. When asked, "What happened in your game?" Jungman replied, "I [messed] up."

Parrott's game lasted the longest and finally ended up as a draw. The position was apparently "drawish" for the last part of the game, but Parrott's opponent wouldn't call it quits. Ratner too settled for a draw in his game.

Boards four to seven all turned out to be good ones for the Beavers. Cao won as white while Klavetter and Hemphill achieved their victories from the black side.

Frank Perez's game was an especially memorable one. But before we get to that, the reader may be interested in knowing that the chess club meets every Friday at 7:30pm in 27 Gates. You are welcome to join us (especially if

and has recently been elected as Chairman of the IHC.

Weaver served as Ricketts House president during that house's first major renovation. This was a very sensitive period when Weaver, as president, had to negotiate to protect those aspects that gave Ricketts its unique character while at the same time gaining maximum benefit from the rehabilitation. Weaver managed to satisfy the varying demands of the house members in this effort.

you know how to play chess)!

Frank Perez's game will undoubtedly go down in the chess history books as an "immortal And indeed it will live game." forever in the mind of whoever sees it.

Even if you don't play chess, follow along! The question marks mean "Gee, that move is really awful." The factorials mean "Gee, that move is pretty good." Follow along, won't you?

White: Frank Perez (Caltech) Black: Gordon Bagby (JPL) 1. e4 c6 2. d4 d5 3. Nc3 dxe4 4. Nxe4 Bf5 5. Bd3!? Qxd4?!

White adventurously plays a gambit, and black accepts it. Black gains the pawn, but he will be behind in development.

6. Nf3 Qd8 7. Qe2 Bg6?

It is unclear why black did this. At any rate, it is a waste of time. 8. O-O Nd7?????

There is debate over whether to give black four, or five, question marks for this move. Perez himself gives four.

9. Nd6! mate.

CALTECH public events

MAGIC SHOW AND CIRCUS FEATURED THIS WEEKEND

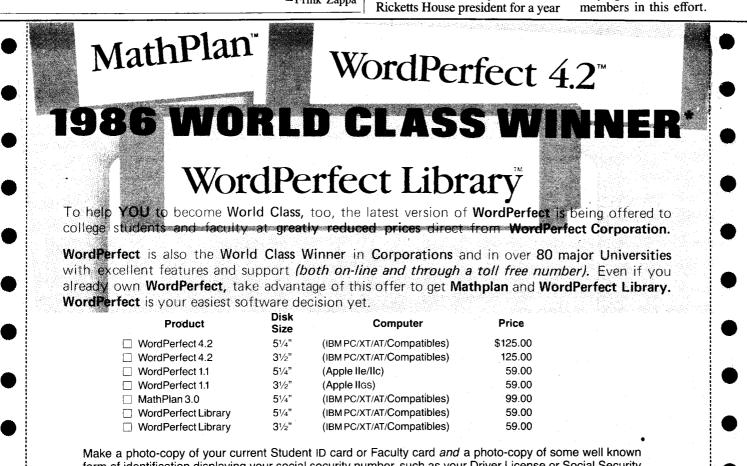
The Mysterious World of Magic and Illusion is returning by popular demand Saturday, May 30 with performances at 2 p.m. and 8 p.m. Magic, sleight of hand and legerdemain will be showcased in this spectacular show.

Featured will be Kevin James' "Magic of the '80s," Glenn Falkenstein with E.S.Pecially Yours," the Magic Castle's "Parlour Magician of the Year" Tom Ogden, Frances Willard's "The Spirit Cabinet," and "Master Magician and Illusionist" Chuck Jones and Company.

The 2 p.m. show has been specially designed for children as part of Public Events' Family Faire series. This performance will be approximately 70 minutes in length.

CIT student tickets are priced at \$4.00 for the matinee and \$6.25-5.00-3.75 for the evening show; \$6.00 rush tickets go on sale the day of the show. The CIT/JPL faculty and staff ticket price is \$6.00 for the matinee and \$10.50-8.00-5.50 for the evening performance. They can also purchase TECHTIX, for the price of CIT student tickets, Friday, May 29 between noon and 4:30 p.m. at the Caltech Ticket Office.

Also appearing on Saturday



form of identification displaying your social security number, such as your Driver License or Social Security Card. (WPCORP will hold this information strictly confidential and use it only to guard against duplicate ses) If you do not want to provide WPCORP with a social security number, you must provide

alternative verifiable information sufficient to protect against duplicate purchases.

Enter your social security number: _____ - ___ - ____ ___ ___

Enclose payment for the total cost of the package(s) ordered with personal check, money order, Visa or MasterCard.

VISA
MasterCard

Account #

Expiration Date

Address a stamped envelope to School Software Program, WordPerfect Corporation, 288 West Center Street, Orem, UT 84057. (Make check or money order payable to WordPerfect Corporation.)

Ship To

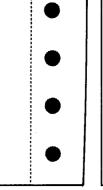
Your Dealer

LOUIS BELSKY & ASSOCIATES

8670 Meadowbrook Avenue, Suite D Garden Grove, California 92644 (714) 537-5986

Phone ____

To qualify, a participant must be currently enrolled as a full time student and must agree in writing not to sell or transfer any package purchased under this agreement. Please note that each student is limited to one package each of WordPerfect, Library, and Mathplan. The information provided herein is correct and accurate, and I will abide by the restricting conditions outlined by WordPerfect Corporation in this document. I understand that at its sole discretion, WordPerfect Corporation may refuse any order for any reason.



May 30 will be the Royal Lichtenstein Quarter Ring Sidewalk Circus. Performances will be held at noon and 3:30 p.m. in Ramo Auditorium. A potpourri of magic, juggling, small animal acts and more will be featured.

Ticket prices and discounts are the same as those for the matinee performance of The Mysterious World of Magic and Illusion.

A world of Magic Moments is planned for Caltech Public Events' 1987-88 season. Among our many attractions will be the Smothers Brothers, Mark Russell, the San Francisco Mime Troupe and the return of those zany Karamazov Brothers.

Tickets to all Caltech Public Events can be purchased at the Caltech Ticket Office, located just north of the Beckman Auditorium parking lot. For further information, call campus ext. 4652. Have a great summer!

Signature _____

_____ Date _____

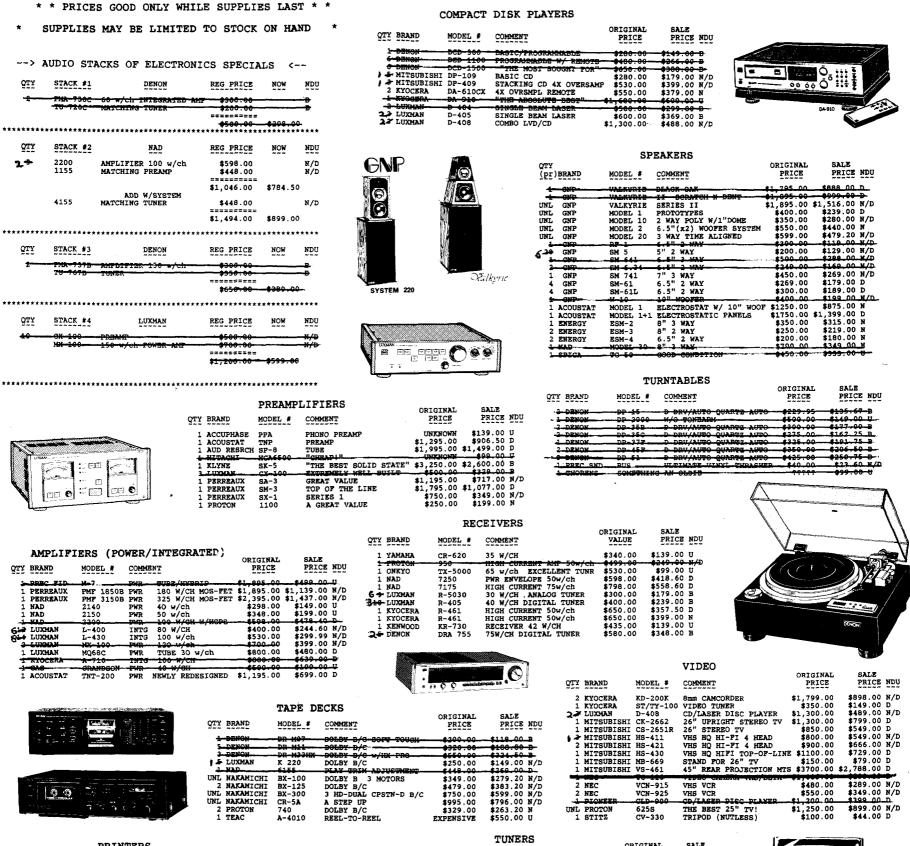
*Word Processing Software category as voted by PC World readers.

DITCH DAY SALE PRICES GOOD UNTIL END OF MONTH **ON THESE REMAINING PRODUCTS!**

GNP SHOWCASE 7th ANNUAL DITCH DAY SALE MAY 22-24

ALL WEEKEND FROM 11:00 AM FRIDAY TO 5:00 PM SUNDAY LINES GENERALLY START FORMING IN FRONT OF THE STORE BY 5:00 A.M FIRST COME-CATCHES THE EARLY... OH WELL, YOU KNOW! PRICES FOR STUDENTS/FACULTY AND ALUMS ONLY -- ID ABSOLUTELY REQUIRED

1244 E. Colorado Blvd. Pasadena, CA 91106 818-577-7767



PRINTERS					1	JAGAG	ORIGINAL	SALE		1	
	FRID	ILERO	ORIGINAL	SALE	OTY BRAND	MODEL #	COMMENT	PRICE	PRICE NDU	15	i i
OTY BRAND	MODEL #	COMMENT	PRICE	PRICE NDU	2 2		2200000	22222		h 🖉 👘 👘	ł –
200 00000					1 DENON	TU-400	DIGITAL TUNER	\$250.00	\$149.00 B		1
2 BROTHER	HR-20	DAISY-WHEEL	\$450.00	\$244.00 N	2 DENON	TU-747C	DIGITAL TUNER	\$250.00	\$169.00 B	l l	1
1 EPSON	LX-80	9-PIN DOT MATRIX-120 CP	\$349.00	\$99.00 D	3 DENON	TU-767C	DIGITAL TUNER	\$325.00	\$188.00 B	PROTON	i i

6 LUXMAN 1 NAD

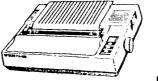
51 EPSON	LX-86	9-PIN DOT MATRIX	\$299.00	\$171.00 N
40 EPSON	HS-80	INK JET	\$499.00	\$199.00 N
1 RDRON	TY .00	- GOLOR DOT MATRIX		<u>. e no porté.</u>
P EPSON	AP-80	APPLE COMPATIBLE	\$399.00	\$239.00 N
71 100 BPSON	FX-85	9-PIN DOT MATRIX-180 CP	\$599.00	\$275.00 N
1 RPSON	HI-80	PLOTTER	\$549.00	\$289.00 D
3 EPSON	EX-800	9-PIN DOT MTRX-300 CPS	\$599.00	\$389.00 N
7 EPSON	FX-286E	9-PIN DOT MTRX-200 CPS	\$699.00	\$454.00 N
4 😸 BPSON	EX-1000	9-PIN DOT MTRX-300 CPS	\$799.00	\$519.00 N
2 😽 BPSON	LQ-1000	24-PIN DOT MTRX-200 CPS	\$999.00	\$649.00 N
-1-OKIDARA-		- 9 PIN DOT MTRX-180 CPC -	- \$300.00	\$149.00
→ OKIDATA	192+	9-PIN DOT MTRX-200 CPS	\$599.00	\$250.00 N
I UNIDATA	193	9-PIN DOI MIRK-200 CPS-	-\$699.00-	- \$300.00 D
9 🕶 TOSHIBA	F351	24-PIN DOT MTRX-280 CPS	\$1599.00	\$789.00 N
2 TOSHIBA	P351C	24-PIN DOT MTRX-280 CPS	\$1799.00	\$989.00 N

			SOFTWARE		ORIGINAL	SALE	g			
OTY	BRAND	MODEL #	COMMENT		PRICE	PRICE	NDU			
1	DGTL RSRCH	DR. LOGO	SOFTWARE		\$100.00	\$50,00	N			
1	HAYES	SMARTCH II	COMMUNICATIONS	SOFTWARE	\$149.00	\$75.00	N			
1	PFS	PFS: GRAPH			A LOT	\$25.00	D			
1	RBASE	CLOUT			\$199.00	\$50,00	N			
1	STAR SOFT	ACCOUNTING	PARTNER		\$199.00	\$50.00	N			

		~~~~~		
1	DGTL RSRCH	DR. LOGO SOFTWARE	\$100.00	\$50,00
1	HAYES	SMARTCM IICOMMUNICATIONS SOFTWARE	\$149.00	\$75.00
1	PFS	PFS: GRAPH	A LOT	\$25.00
1	RBASE	CLOUT	\$199.00	\$50,00
1	STAR SOFT	ACCOUNTING PARTNER	\$199.00	\$50.00

OTY	BRAND	MODEL #	COMMENT	ORIGINAL PRICE	SALE PRICE NDU
222	~~~~	******			
1	EVEREX	MODEM	1200 BAUD INTERNAL	\$299.00	\$89.00 N
3	KEYTRONICS	KB-5151	KEYBOARD	\$250.00	\$160.00 N
25	NEC	V20-5	FAST DATA BITS	A BIT MORE	\$7.50 N
5	NEC	V20-8	FASTER DATA BITS	A BIT MORE	\$7.50 N
9	NEC	V30-8	FASTEST DATA BITS	A BIT MORE	\$7.50 N
- ÷	-OUNDRAM-	MICROPASE	<b>BUTTOR</b>		\$250 00 D
	TECMAR	EGA MASTR	EGA BOARD	\$399.00	\$249.00 N
1	US ROBOTIC	MODEM	1200 BAUD EXTERNAL	\$299.00	\$99.00 N
5	XEBEC	CONTROLER	HARD DISK	BE SERIOUS	\$70.00 D
15	SEVERAL	128K CHIP	FULL COMPLEMENT OF 1	BITS MANY YEN	\$0.75 N
وقو	SEVERAL		FULL COMPLEMENT OF		\$0.75 N
412					

1	NAD	4300	QRTZ	FOCKED	' FMX	' TUNER	\$5
971.0			<u> </u>		OTY I	BRAND	ļ
				1		GRACE	



QTY BRAND

T-910 T-400 4130 4300		) \$400.00 \$228.00	\$412.50 N/. \$269.00 B \$182.40 N \$313.50 D
		CAR	TRIDGES
and the second second	OTY BRAND	MODEL #	COMMENT
1 1 1 1 1 1 1	1 DENON		HIGH OUT
أساساساسا	4 GRACE	F9E RUBY	
	4 GRACE	F9E SUPE	

7	5 GRADO	MCE+	MOVING MAGNET
	5 GRADO	MF3E+	MOVING MAGNET
翻読名	5 GRADO	MTE+1	MOVING MAGNET
三 4 /	1- GRADO	- BIGNATUR	- Omr MOVING MA
	1 KOETSU-	BAACK	MOVING COIL
7 7	1-MAG		-HIGH OUTPUT -NE
E: U	2 SHINON	TITAN	MOVING COIL
7 <b>Г</b>			

### **COMPUTERS/MONITORS**

	ORIGINAL	
MODEL #	COMMENT	PRICE
DGE MODES D	20MB W/MONITOR	

1	LEADG 1	EDGE MOD	el d	2 DRIVE	W/MONITOR	\$1,495.00	\$710.00
	-IOUEGY		NELL DO	* W/2	K 10MB	#2,495.08	
2	ROLAND	MA-:	122	COMPOSI	TE-AMBER	\$199.00	\$90.00



SALE PRICE NDU

20 00 N

\$227.50 N/D \$157.50 N/D

\$18.75 N/D \$39.00 N/D \$14.00 N/D

W./D

ORIGINAL

PRICE

\$325.00

\$225.00 \$225.00 \$37.50 \$60.00

\$18.00 756 445.0

#### **MISC AUDIO ACCESSORIES**

UTI

PHT NOUTNA

SALE PRICE NDU

	QTY	BRAND	MODEL #	COMMENT	PRICE	PRICE NDU	
	2	AUD CNTRL	VC-1	EQ FOR AUDIO AND VIDEO	\$249.00	\$49.00 U	
	1	CARVER	TX 1-11	FM NOISE REDUCTION UNIT	\$249.00	\$129.00 D	
-	2	NEC	AV-250	SURROUND SOUND UNIT	\$300.00	\$199.00 N	
	1	NEC	AV-300	SURROUND SOUND UNIT	\$550.00	\$299.00 N	
	ī	NUMARK	VC-1000A	RF SWITCHER "AS IS"	\$99.95	\$29.00 D	
	1	VIDEO LINK	XL-400	RF SWITCHER "AS IS"	\$99.95	\$29.00 U	
		VIDITEK	SSV-440	VIDEO SWITCHER-LINE LEV	\$269.00	\$79.00 U	

* * * DENON 'B'STOCK HAS 90 DAYS PARTS AND LABOR WARRANTY * * *

EXTENDED WARRANTIES ARE AVAILABLE - ASK HOW

N=NEW D=DEMO U=USED B= B STOCK ***

ALL USED EQUIPMENT HAS A 30 DAY WARRANTY

## WHAT GOES ON

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

Announcements must be received by the Tuesday prior to publication.

### **Posters! Posters!**

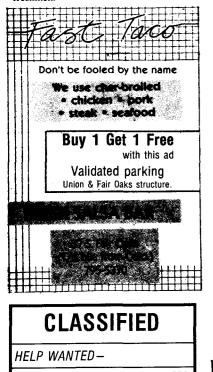
Everyone saw the HOLLYWOOD sign changed to CALTECH. Now you can own CALTECH sign memorabelia. 22" x 29' color aerial photographs of the monument. Also the same photographs on postcards. Posters \$3.50. Postcards 4 for \$1.00. (Should be delivered by Friday, June 12) Tshirts (L.A. Times photo) \$6.00. Student sign up at all seven houses, Catalina, and the MOSH's office. See Dwight in 113 Page, 578-9971, for information. Stay tuned for buttons, mugs, commemorative coins, ties, and Calvin I Techer action figures.

#### **RF Club Meeting**

Now you can be a part of the fast paced world of practical jokes. Next meeting is Monday, June 2 at 8:00pm in the Y clubroom. The Hollywood/Caltech sign videotapes will be reviewed, house representatives will be appointed, and upcoming RF's will be discussed. This is no joke!

### **BUSAC Members Announced**

Congratulations to the 1987-88 BUSAC representatives. Seniors: David Bruning, Adam Greenblatt, Kris Koh. Juniors: Bibi Jentoft-Nilsen, Thu Le. Sophomores: Laura Hernandez, Thuy Nguyen. In addition, there will be two as yet undecided, unsuspecting freshmen.



**BIG COMPANIES OFFER YOU A DULL JOB?** Work for Lasergraphics, we won't bore you. Lasergraphics is a techer-founded six year old computer graphics firm with a very informal challenging atmosphere. We are looking for BS or MS graduates with experience in software systems design and/or digital logic design. Call Stefan at (714) 660-9498, noon to 10 pm.

### HOUSING WANTED-

VISITING FACULTY desires house for famiof five, 6/29-9/1, Call (517) 349-9140

### A Big Shot For The MOSH 💼

ALL UNDERGRADUATES! Please gather at the steps to the Athenaeum on Friday, May 29, at 4:30pm for a group picture to present to Chris Brennen as a going-away present.

#### Tune Up Your Air Bands!

Decompression, that amazing weekend of food and fun sponsored each term by The Caltech Y just before finals week, will be moving in a new (and possibly dangerous) direction in June. This term, in response to student requests for more active participation, we will be having an air band contest, complete with faculty judges and monetary prizes.

Providing enough bands sign up, the preliminary contest will be Saturday night, June 6, and the finals Sunday night, June 7. Prizes of \$100, \$75, \$50 and \$25 will be awarded to the top four bands. Judging will be based on originality, costume, and overall performance. Interested people should sign up in the Y by Thursday, June 4, and leave the name of the group, the contact person, and a phone number where the person can be reached.

For more information, contact The Caltech Y, 218-51, x6163, or Mike Goedecke, 1-53, 578-9368.

### Learn To Fly!

Ð

1 The Aero Association of Caltech is now looking for new members. If you or someone you know would like to become a private pilot, now is a great time to begin. For more information, contact Kevin Baines, JPL 183-301, phone 354-0481 or Jim Kaufman, 264-33, phone 356-3807.

#### Student Space Group Meeting On Tuesday, June 2, at 7:30PM in Clubroom 1 in the Winnett Student Center, Caltech SEDS presents Mr. Oliver Harwood, Senior Engineer, Rockwell International, who will discuss his innovative space station design, and his problems with corporate management in getting the design reviewed.

Attention Soccer Players Next year, the Varsity Soccer team will

buy their own home and away jerseys. If you (soccer players only) are interested in helping to pick a style, contact Konstantin Othmer at 793–9269. We will be looking at uniforms on Tuesday, June 2

Sam Custom Jailor

49 NORTH ALTADENA DRIVE

PASADENA

(818) 793-2582

**ALTERATIONS** RESTYLING TAILORING

INVISIBLE REWEAVING

Special rates for Caltech/JPL community

No Concrete in This Totem! For those of you with artistic, photographic, or literary inspiration, your chance at everlasting fame is here: send your submis-sions to the *Totem* editor, Tom Tromey, at 1-59 Submissions made of concrete not acceptable. Anything else will be seriously considered. [Boy, is he asking for trouble...]

Play It Again, Sam TACIT presents Woody Allen's Play It Again, Sam as its spring production. Per-formances are 8 pm Friday, 29th, and Saturday, 30th, with a 2 pm matinee on Sunday, May 31st. Tickets are \$6.00, \$4.00 for students and are available at the Caltech Ticket Office, north of Beckman. All performances are in Dabney Hall Lounge.

### Fall Contracts

Fall housing contracts for 87/88 are now in the MOSH's office. Deadline is Monday, July 6th.

Attention, Space Buffs! F Come hear Mike Hyson, member of the Citizens' Advisory Council on National Space Policy, speak on The Private Space Program, Wednesday, June 3, at 7:30PM in the Winnett Lounge.

### Summer Games?

For those of you too busy during the academic year, the Caltech Gamers will continue to meet during the summer. Various games commonly played range from various SF and fantasy role-playing to grand-scale miniatures games, if enough people are in-terested. Anyway, stop by Clubroom 1 on any Friday night at 8:00 pm and meet people, plan things, and have fun. Beginners always welcome.

#### **Club Information Due**

Club representatives, we need information from you in order to update the club section of the little t. Send a brief description (50-100 words) of the activities of your club along with the name, mail code and phone number of a contact person to little t, 107-51. Remember, 200 new freshmen will consult the little t for information about clubs. If we do not receive a response from your club then we will not repeat the entry from last year.

Desirable San Raphael Hills location 3 Bedroom, 1³/₄ Bath

Lovely La Canada view home

located on quiet cul de sac. 4

Bedroom plus family room

795-7423 or 790-8300

MacGregor Realty Inc.

Call Stephane Strode

**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:

plus bonus room.

\$220,000

\$249,000

### Military Invades Hollywood

Young ladies ranging in age from 17-25 are needed at the Bob Hope USO Club in Hollywood to serve as program volunteers on weekends. Program volunteers are directly involved in: coordinating ar-rangements with USO staff for mobile trips to various Southland military bases; developing themes for weekend dances at USO's disco; organizing in-town field trips to amusement parts, museums, festivals and concerts; and serving with other program volunteers on decorating and pre-event planning committees.

For further information, contact Pat Wilkerson at (213) 462-0747, Monday through Friday, 9:00 am to 5:00 pm.

### Students At The Summit

Congressmen Dick Durbin (IL), Dave McCurdy (OK) and Mike Synar (OK) encourage students to exchange their views with national lawmakers at the Second Annual Student Summit on Capitol Hill on Thursday, June 11 thorugh Saturday, June 13.

In addition to issue seminars, the Summit will include a Thursday night Welcom-ing Reception with House Majority Leader Tom Foley of Washington, a visit to the House floor with House Speaker Jim Wright, and an informal question and answer session on topics of the students' own choosing with a panel of various members.

Several hundred students are expected to participate in this year's Summit. Registration is open to any interested col-lege student for a \$20 fee, and housing is being made available at a reduced cost. Interested students should call (202) 863-8038 for further information.

### Volunteer Naturalists Needed

The Santa Monica Mountains National Recreation Area is accepting applications for volunteer docents/naturalists who will be trained to lead nature walks and hikes for the general public and school groups. Training will begin in the early fall.

An interest or background in parks, wildlife, plants, conservation, history, the physical sciences or hiking would be helpful.

For further information and an application form, please contact the Assistant Volunteers-In-Parks Coordinator at (818) 888-3440. The application period will close August 21, 1987.

Don't Leave Home Without It Travelling abroad? Don't leave home without an International Student ID Card. You can obtain it from Ingrid, International Desk, 105 Winnett Student Center, x6330.

Rag Time **RESALE CLOTHING** 

for WOMEN M-Thurs. 10-5, F-Sat 10-3 (818) 796-9924 1136 E. Green St., Pasadena

#### **PARIAN TRAVEL** GODEN Caltech Officially Approved

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 purchase of min. \$100.00 travel tickets (one per family).

### **Essay Contest**

Students enrolled in senior high school, college and continuing education are eligible to enter the National Organization for Women's essay contest on the topic: "Do We Need An Equal Rights for Women Amend-ment to the Constitution?". Winners will be awarded scholarships starting at \$1,000. All entries must be received by September 30, 1987. For information, write the NOW Foundation Essay Contest, 1401 New York Ave., N.W., Suite 800, Washington, D.C. 20005.

### Gay/Lesbian Discussion Group

An ongoing discussion group on Gay/Lesbian topics is held every Thursday evening from 7:30-9:45PM at the Archibald Young Health Center. All members of the Caltech community are welcome. Refreshments are provided. For further information please contact Bruce Kahl, x6393.

More Holes In Your Head  $\,\, \bigcirc \,\,$ 

Ear piercing is now available (for students only) at the Health Center. This service is offered on Monday, Tuesday, Thursday and Friday evenings by appointment only. To schedule an appointment please con-tact Linda Pinson, L.V.N., after 5:30 pm (except Wednesday) at x6393. The cost (including earrings) is \$5.

Melee The Day Away The Caltech Medieval/Renaissance Society is holding fighting practice and armoring workshops again. If you would like to learn the techniques of Medieval-style ar-mored combat and armor-making, we meet Sundays at 1 pm outside Winnett Student Center. (Just listen for the clank of armor and the thump of weapons...)

### Do You Want Money?

Positions are available for work study (\$5/hour) or volunteers at the Red Door Café. Inquire or leave message at the Red Door (x6158) or x6692.

### Miss California?

ж

The Miss California State Scholarshiop Association, Inc. is sponsoring a program which offers \$20,000 in educational scholarships ranging from \$200 to \$8,500. Further details are available in the Financial Aid Office, 12-63.

### Irish Dutch Exhibit

The premiere exhibition in the United States of a collection of seventeenth century Dutch paintings selected from the National Gallery of Ireland is on display at the Bowers Museum in Santa Ana until May 31. This is the *only* western showing of this exhibit, and was arranged under the auspices of the Smithsonian. The museum is at 2002 N. Main St. in Santa Ana, and admission is free. Tuesdays through Saturdays, 10 am to 5 pm, Sundays noon to 5 pm.

ACADEMY

**BARBER SHOP** 

27 No. Catalina, Pasadena

Open Tues.-Sat., 8 A.M.-5 P.M.

449-1681

