

ADD

THE
CALIFORNIA TECH

DAY

Volume XCI, Number 23

Pasadena, California

April 20, 1990

Arroyo Earth Festival

An Earth Day Celebration of Environmental Concerns and Solutions

By Mac E. Thion

Concerned about pollution and the environment? If so, then this is the weekend that you'll be able to hear all you want about them. After weeks of promotions on bus shelters and on television, Earth Day has finally arrived.

The festivities will begin on Friday on campus with a recycling display by the Environmental Task force. On Saturday, they along with many other exhibitors will be at the Arroyo Seco Earth Festival. From 9 a.m. to 5 p.m., there will be a variety of exhibits on the environment at the Arroyo Seco. In addition to tree planting and other forms of entertainment, there will be twelve separate villages set up for people to explore. Each of these villages will have a different theme related to Earth Day, ranging from Energy to Waste and Recycling to Transportation to Native Americans.

Also at the Arroyo Seco Festival will be Campaign Earth, co-sponsored by the Caltech Y, the Sierra Club, and the United Nations Association. From 10:00 AM to 12:00 noon, and from 2:00 PM to 4:00 PM in the Band Shell at Brookside Park, there will be a conference on global environmental issues. Those involved include staff from Caltech and JPL; representatives from the cosponsoring groups and the local media, and elected officials—including U.S. Senator Alan Cranston, and Sergei Begor, of the Institute of International Systems Analysis in Moscow.

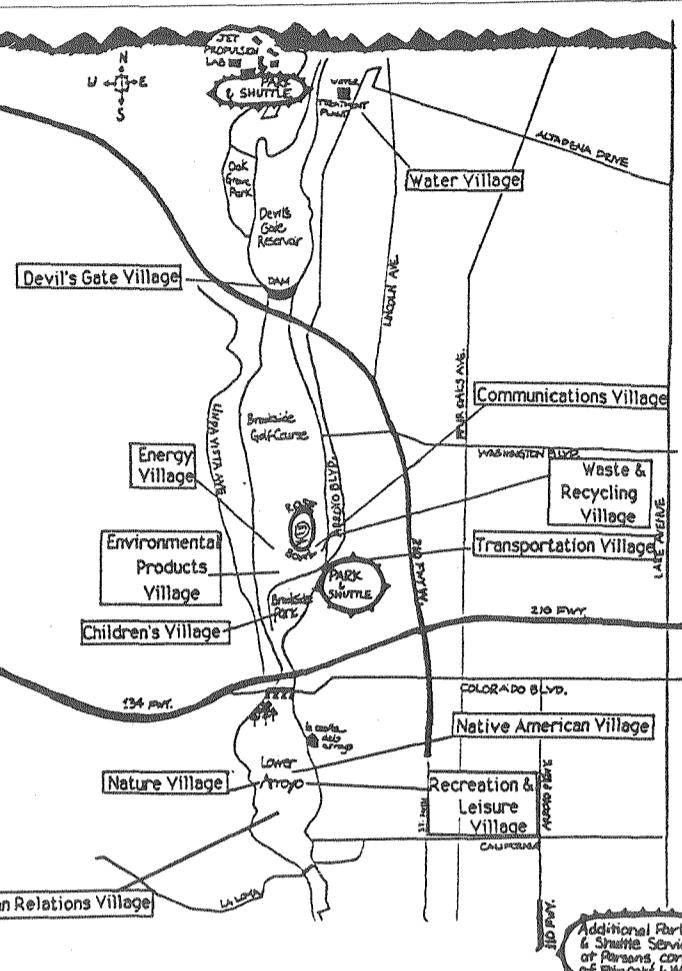
The Conference will cover such topics as international pollution, how to help third world countries get the technology to reduce CFC productions and emissions, hazardous waste disposal, and many others.

There will be a free shuttle to the events from the corner of Holliston and San Pasqual, behind the Housing Office.

Departures to Arroyo Seco will be at 9:15 AM and 1:15 PM. Return trips to campus will depart Arroyo Seco at 1:00 and 4:00 PM. Admission to the Arroyo Seco Earth Festival and to the Campaign Earth is FREE.

If you don't feel that a one-day event can make a significant impact, or if you want to know how you can help to conserve resources, the Caltech Environmental Task Force has compiled a fact sheet on an amazing amount of waste at Caltech. For instance, the average Caltech student recycles less than one-third as much as the average household in Pasadena does. More information is available from Andy Crews (x4165).

Also, aluminum, newspapers, glass bottles, cardboard, and plastic bottles with CA redemption value may be turned in at the Caltech Recycling Center, north of Beckman Auditorium.



Water Village will highlight issues of water supply, quality and conservation.

Transportation Village will feature exhibits which deal with the wide range of transportation and clean air issues.

Nature Village will focus on trees, vegetation, wildlife and wilderness issues.

Children's Village will deal with the broad range of environmental issues in a format designed to educate young people to be environmentally aware.

Energy Village will deal with energy issues.

Waste & Recycling Village will educate festival goers about how they can reduce the amount of solid waste they create.

Big Plans For Small Motors

by Chris Dunn

Rotors spun and sliders slid in videotaped demonstrations during Yu-Chong Tai's Wednesday night Watson lecture.

Getting those gadgets to do their jobs was no small feat. After seeing them in motion projected onto Beckman Auditorium's giant screen, it is hard to believe that they measure only the width of a human hair.

If researchers can build mechanical connections and increase speeds, the micromotors might become anything from gyroscopes to "smart" medicinal pills. The same methods of etching used for silicon chips produce the motors, which may soon be standard equipment on integrated circuits.

Although fraught with difficulties and limitations, small size has at least the advantages of great strength and consequent durability.

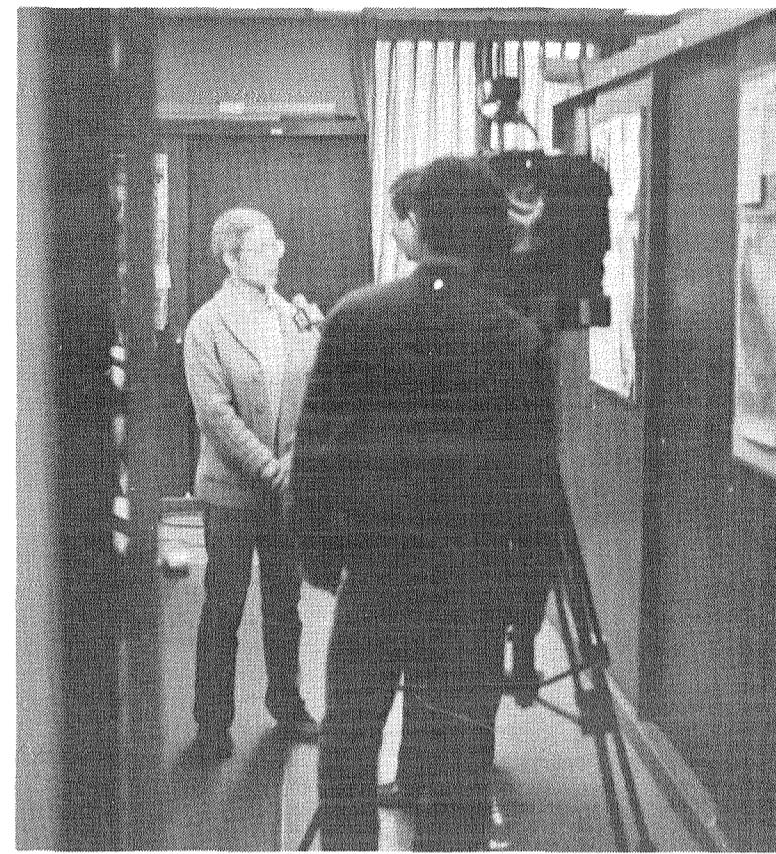
"That's pretty rare," says Tai. "Usually Nature is against you. We feel lucky."

Tai showed photographs of cantilevers, pivots joints, bridges, springs, ratchets, sliders, and tweezers, all discernible only under a microscope.

Detritus lurks as one problem, but Tai explained some innovative bearings that mitigate the slowing and erosion.

Another problem is the high voltage now needed to start the rotors. If the voltage reaches 400 volts, "Boom. The motor is gone." Tai would like to produce a motor powered by watch batteries.

The youth of microtechnology leaves the field open to rapid advancements. Tai finds in recent books facts that he knows to be untrue. He enjoys that and all of his big little discoveries.



Channel 11 is interviewing Caltech personnel about Tuesday's 4.6 earthquake.

photo by Adam Weissman

CRIME AND INCIDENT BEAT

CRIME TIP: In November of last year Caltech security investigated a robbery, taking fingerprints, dried blood and other clues left behind by the thief. Just recently the police found a suspect that fit security's clues and he has been arrested. If you are the victim of a theft or a similar crime, notify the security office so that they can collect information that may lead to the arrest of criminals.

4/11 At 9:15 p.m. there was a brawl in the Gym. Person "R" threatened Person "C" and then grabbed him by the ear and struck his mouth. R and C struggled on the floor until Person "L" (who was the brother of C) attempted to separate them. A fourth person, "Jerry" joined the fray, but an onlooker, "Rob", restrained him. As Rob did so, C struck Jerry in the eye. C was treated for minor cuts and scratches.

4/11 An exit door from 153 Noyes was found to have been tampered with. The screws had been removed and it was not latching properly.

4/12 A Ricketts House resident left his room door unlocked. When he returned, he found that a number of CDs and other personal items had been stolen.

4/12 A student parked his red and white VW bug in the Tournament Park parking lot. To prevent theft, he used a steering wheel lock and disconnected a distributor wire. When he returned, the car was gone, however at 3:30 p.m. a central plant staff member observed a white tow truck taking a vehicle that matched the description of the student's car.

4/12 A faculty member locked his bike on the north side of Church. When he returned, it had been stolen.

4/12 An Ath guest returned to her car after dinner to find the left door smashed and her medical bag stolen. It contained such neat things as a stethoscope, blood pressure cuff and reflex hammer.

4/13 At 5:15 a.m., officers responded to a fire alarm in Ricketts House. On the second floor an officer observed students at the end of the hall waiting for "one of several liquid hydrogen bombs to go off", according to the security report. The students said it was just a prank. The officer also noticed that the alley doors had been locked with nylon rope and a 2x4.

4/16 At 12:19 p.m. a suspicious person was reported in the Holliston parking lot, bouncing a basketball. He was a JPLer waiting for his brother.

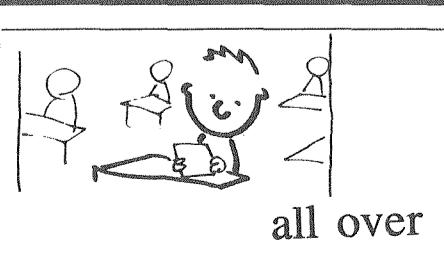
4/17 A student working in a Booth Lab room placed a camera on the floor. The room was left unlocked and unattended during the day. Later, the camera, which was rented from Pasadena Camera Rental, was found stolen.

4/17 A suspect was seen loitering around the Housing Office bicycle rack at 8:45 p.m. Bikes and bike parts have been stolen from this area in the past. The suspect claimed to work in Chandler dining hall. A follow up revealed that he did work in Chandler, but was advised not to loiter on campus after work.

Total dollar value stolen this week: \$8905.

INSIDE

He said he didn't do very well on the test. But he said it didn't matter because he's an economics major.



Sports at Tech: Athletes in Action

page 12

ASCIT Minutes

page 4

letters

Honor Violations

To the Editors:

Recently, there have been several letters in the *Tech* concerning the Honor System. I agree that the Honor System here gives us considerable freedom and benefits. However, I feel that the members of the Caltech Community should not deceive themselves in believing that the Honor System is infallible and that violations cannot possibly go unnoticed. I know of many situations which many will agree constitute violations of the Honor Code. Here are three.

(1) Person A wakes up one morning and could not find any of his towels. He simply goes to the linen room and takes two towels without informing the attendant in the linen room.

(2) Persons A and B RFs person C, but fail to identify themselves. For several days, C went around accusing members of his house of RFing him before figuring out who the perpetrators were.

(3) In a laboratory course, the professor divided the students into two sections. Each section was allowed to use the lab for half of the week. Student A went to the lab during his time only to find that student B from the other section was using the equipment which A needed to use.

I know that the events I have described above are true. I am not citing hearsay. You may ask why I have not reported them to the Board of Control. Events (1) and (2) were known to several other members of the community. Apparently, they did not report them either.

The point I want to make here is that honor system violations do occur and that sometimes they go unpunished.

—Howard Lee
1-55

The Final

To the Editors:

Another Damn Test:

1. Caltech is best known for:
a. The scintillating social scene

- b. Near-gourmet quality food served by B.C.
- c. Low-key classes requiring little or no homework

d. The creativity and effort invested in pranks, stacks, interhouse, etc.

2. The percentage of thefts in the Crime and Incident Beat which are largely the result of the victim's stupidity is:

- a. 1.60219 x 10 to the minus 19th %
- b. 99.95%

3. The percentage of same where Security either thwarts the crime and/or apprehends the perpetrator(s) is:

- a. 99.95%
- b. 1.60219 x 10 to the minus 19th %

4. Who of the following would be more challenging (and therefore interesting) to outwit?

- a. Security
- b. frosh, who are by definition clueless

c. Vicious and cunning youths employed in the local stolen goods/crack exchange

5. Which of the following has the most entertainment potential?

- a. Establishing Sat/Sun morning sections of Ch 3a
- b. A repeat of the blistering nonstop action of the last Pumpkin Drop

c. Placing somewhere on campus an unlocked bike, the frame of which is conductively coupled to a hefty current

6. Essay Question: In the spirit of the previous questions, propose alternate scenarios at least as pleasing as 5c (50 words or less). Extra Credit: The actual response to this test will involve:

- a. Rise of the "Shining Forehead" campus guerrillas, sworn to end the tyranny of the evil capitalist thugs mentioned in 4c
- b. Apathy of biblical proportions
- c. A lame, whining complaint to the editor from some butthead

Please return completed tests to:

—Kraig Anderson
Graduate student, Chemistry
127-72

Save Natural Resources

An Open Letter to
Dr. Thomas Everhart
President of Caltech

Dear President Everhart:

The Caltech Environmental Task Force is an organization of students, staff, and faculty concerned about the rapidly degrading quality of the environment. We feel the necessity of pointing out some facts about the wasteful use of natural resources on our campus. Unnecessary water usage, lack of recycling efforts, and other data are listed on the accompanying sheet of facts collected by the members of the Task Force. Individuals and small groups (e.g., George Fielding at Physical Plant, GSC, and various offices) have been making conservation efforts. We would like to see a large scale, collective and institution-wide effort to remedy the situation. For this purpose, we would like to suggest that the following policy be adopted by the Institute:

We, the California Institute of Technology, are interested in conserving earth's limited resources. As a leading scientific institution, we feel that we should take responsibility for the conservation of our natural resources and should take leadership in urging others to do the same.

It is the Institution's policy to conserve natural resources, including water, energy and raw materials, whenever and wherever possible.

The watering of the ground will be kept to a minimum and the Institute will improve the irrigation system so as to make it as efficient as possible.

Agricultural waste will be composted to reduce the amount of waste going into landfills.

All members of the Institute will be urged to end waste of water, energy and other resources in their daily activities. The Institute will take an active role in educating the members of the Institute as well as the community about the urgent necessity for conservation and reduction of waste. The Institute will take an active role in developing the technology for the conservation of and reduction of demand for natural resources.

The Institute will reduce the wasteful use of paper, and will move to eliminate the use of non-

recyclable (e.g., colored) paper. Furthermore, the Institute will support, in any way possible, the use of recycled paper in order to decrease the depletion of natural resources.

The Institute will strongly encourage its members to commute more efficiently by asking more employees to carpool and by installing more racks for the security of commuters' bicycles.

Caltech was deeply involved in the Earth Day activities 20 years ago. However, it has not been active in conservation and protection of natural resources in recent years. As scientists, we must lead the conservation effort; as members of the earth's population, it is our obligation to make changes for that purpose. Earth Day 1990 is only a few days away. We strongly urge the administration to adopt the general policies outlined above. Thank you for your consideration of them.

—The Caltech Environmental Task Force:

Gina Mihalik
Alan Frankel
Douglas L. Smith
(illegible)
Gail Ryba
Jim Gerdy
Linda Maepa
Debbie Bradbury
Santosh Kamath

Richard L. Blaylock
Steven C. Anderson
Riley R. Geary

Kathy Watts

Daniel Abram Ashlock
Joanna M. Wills
Brian Kurkoski

Ben Disroe

Gert Guwenbergh
(illegible)

Kelly Goodwil
Sahae Seyali
Andrew Wells

Andrew J. Conley
(Director: GSC Environmental Committee)

(illegible)

has stimulated this communication to you, especially in light of this weekend's Earth Day Festivities.

Protecting the environment requires large-scale, collective efforts. It also requires educating people about the ecological impact of their individual behavior. As a longtime advocate of recycling, beginning in our home, I am pleased to enumerate some aspects of Caltech's efforts in the conservation of valuable resources.

When it comes to large-scale efforts, Caltech has made great strides over the past decade in campus-wide energy conservation, water utilization, and waste reduction. For the most part, these enhancements are quiet and invisible; nevertheless, they are significant. In the 1980's the Board of Trustees approved a long-range plan which called for the application of modern technology to reduce Caltech's energy consumption, to reduce the cost of utilities, and to reduce air pollution in our community. The plan involved a significant investment in the co-generation of electrical energy. These co-generation units are now operational and

THE CALIFORNIA TECH

Volume XCI • Number 23
April 20, 1990

EDITORS
Lindee Goh
Emily Wen
Scott Kister

CRIME BEAT EDITOR
Brian Kurkoski

WRITERS
Brooke Anderson
Lei Chen
Chris Dunn
Keith McCormick

PHOTO EDITOR
Michelle Tseng

PRODUCTION
Nick Smith

BUSINESS MANAGER
Sonny Arcilla

OFFICE MANAGER
Gavin Claypool

ELECTRONIC COPY EDITOR
Asim Mughal

CIRCULATION
Peyjen Wu
Ayman Awad

THE CALIFORNIA TECH
40-58 SAC
California Institute of Technology
Pasadena, California 91125
(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 literacy, expediency, or else.

Turn in copy (preferably in WordStar format on an IBM-compatible floppy disk) to the *Tech* mailbox outside SAC room 40 or through the Network email to TECH.Iago.Caltech.edu or TECH.CITIago. The deadline for copy is Wednesday at noon; for announcements, Tuesday at 5 P.M.

Subscription requests should be directed to the office manager. Subscriptions are \$3.50 per term, \$9 for one year, \$17 for two years, \$24 for three years, and \$30 for four years. Life subscriptions are available for \$125.

Printed by News-Type Service, Glendale.

ISSN 0008-1582



HRANT AUTO SERVICE

Foreign and Domestic Cars



Smog Checks • Tune-Ups
Oil Change • Brakes

1477 E. Washington Blvd.
(east of Hill Ave.)
Pasadena

Batteries • Transmissions
Radiators • Engine Work

Call for Appointment
(818) 798-4064
(818) 791-1993

GRAND OPENING

\$5 OFF ANY SERVICE WITH THIS AD

SERVICES:

NAILS • HAIR • BODY MASSAGE
FACIALS & SKIN CARE
Private room for waxing

Men's Hairstyling by licensed Barbers

Designer Haircuts including Flat Tops

Hair Unlimited

256 S. Lake
(818) 793-6222

COUPON

FRIDAY NIGHT ASCIT MOVIE

An American Tail

with Chilly Willy and the Loony Goony

Baxter Lecture Hall
7:30 and 10:00 p.m.
\$1.00 for ASCIT members
\$1.50 all others

Next Week:

The Right Stuff

NEW! LATE NIGHT NAIK MOVIE

...it'll take your hair off...

ALTERED STATES

with Science Fiction

Baxter Lecture Hall
1:00 a.m. following
regular ASCIT movie

Admission Fees:
\$1.00 for ASCIT members
\$1.50 all others

Conservation

from page 2

producing an equivalent amount of electrical power while reducing our fuel usage by roughly one-half. Caltech demonstrated to the South Coast Air Quality Management District that this technology reduced our NOx emissions by about one-third. In addition, the cost savings to the Institute are approximately \$1.5 million per year, making funds available for other needs. Members of the Caltech faculty were indispensable in helping us implement this program, which has produced commendations and grant awards from federal agencies.

The Institute also stands as a model in other conservation programs and practices. For example, over the past few years the new cooling towers in Caltech's Central Plant have saved 8,000 kilowatt-hours per day, thus significantly increasing the plant's thermal efficiency. Caltech's ongoing replacement of its old, low efficiency absorption refrigeration units has resulted in annual savings of over 100 million cubic feet of gas. This translated into an additional savings of \$390,000 per year. Again, Caltech was the recipient of competitive awards from the federal government to finance these projects. Also vital to the environmental improvement in the operation of the Central Plant has been the installation of low NOx burners, a flue gas recirculation system, and feedwater economizers in the boilers. These changes, like other conservation measures, represent not only good engineering practice, but also environmentally sound policy.

Water conservation efforts include the recent installation of a system that recycled water previously rejected as waste in the process of purification for laboratory use. This system recycles 490 gallons of water an hour; more than 4.3 gallons a year. Another major water-waster, automatic-flush toilets, exist in only a handful of Caltech's 60 plus buildings, and the gradual retrofitting of these systems has already begun. The runoff from campus watering systems tends to result from damaged or purely aimed sprinkler heads. Upgrading this system has admittedly been slow to date, and we are looking at ways to apply technology to correct this situation, such as radio-controlled clocks. We are also addressing this concern through better training of personnel and general maintenance of the system.

My concern with solid waste reduction prompted the creation of the waste management Committee, under Vice President Morrisroe in November, 1988. Our pilot white-paper recycling program now serves as a model for the city of Pasadena; and this experimental program will be expanded to the rest of the campus. Other efforts to recycle paper on campus abound. Active programs have existed in Graphic Arts and the Automated Data processing department for a number of years, and the Campus Computing Center recently initiated a recycling program. Greater use of recycled paper in mass-production projects has proved more difficult than expected due

(for technical reasons, not personnel ones), but these efforts continue. I would like to encourage each of you to participate in these programs to the fullest extent possible as they are expanded campuswide, just as you are already enthusiastically supporting the faculty-staff-student recycling center.

Separately Caltech has had a Trip Reduction Plan in place for several years to encourage ridesharing. Although this plan has met every requirement of the South Coast Air Quality Management District, it is far from perfect. This week, many of you will receive the latest ridesharing opportunities whenever possible. This will not only contribute to lessening air pollution, but will also alleviate a critical shortage of parking on the campus. The Employee Rideshare information Center in the Personnel Office can assist you in locating a rideshare opportunity.

I am heartened by the constructive tone of the Environmental Task Force's letter. Of course, there is more that Caltech should and will do to effect greater recycling and conservation of the earth's precious resources. At the same time, we can be proud of Caltech's long-term institutional response to the environmental realities of our day. This memo should be viewed as a continuation of a dialogue begun two decades ago at Caltech on Earth Day. We hope this dialogue will produce even more environmentally enhancements of our campus. Suggestions from individuals or from the Caltech Environmental Task Force are welcome, and will be taken seriously. We especially appreciate suggestions that will lead to long-term savings, and long-term environmental improvement. However, the nature of scientific research requires power, air-changes in laboratories, and produces some unavoidable wastes. We need to optimize our systems in a rapid and efficient manner, so we can do the best job scientifically, while using the minimum amount of resources.

—Thomas E. Everhart

**Tech Meeting
12:15 today,
above the bookstore.
It's not too late to add**

**PA 15.
Free Pizza
and drinks
We Dare You
to Come!!!**

SPEEDY RESEARCH
Reports: \$5.00 per page
Over 50,000 topics and clippings.
Materials for research assistance use only!!
6546 Hollywood Blvd., 2nd Floor, Room 209
Los Angeles, CA 90028
Mon-Fri 10:30-6:30 • Sat 11:00-4:00
Custom Research Available
VISA • MasterCard
Call Today! (213) 463-1257

12 Kinds of Bagels Baked Continuously Daily On Premises • **4 Kinds of Cream Cheese** • **Swiss, Jack & Cheddar Cheese** • **Lox**
Kosher Pickles • **Turkey** • **Pizza Bagels**
CALTECH

3 FREE BAGELS
Buy 3 Bagels, Get 3 Bagels FREE

Goldstein's
BAGEL BAKERY

Coupon required. Not valid with any other offer.
EXPIRES 5/11/90

Y News YNews

Noon Concert: Today's noon-time concert features the Steed Woodwind Quintet, who will play a variety of classical, pop, and contemporary music. The band will perform in front of Winnett Student Center. All are welcome to come out and listen, so bring your lunch with you.

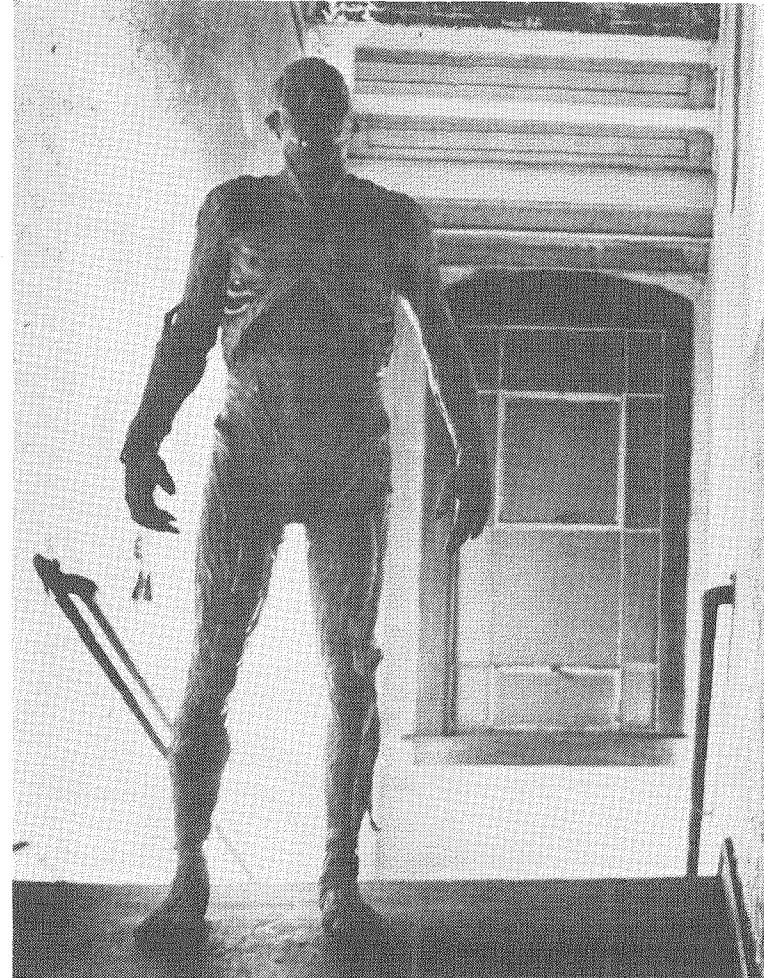
Arroyo Seco Earth Festival: This Saturday, April 21, is Earth-day! You can participate in an outdoor mini-conference on global environmental issues, and vote on recommendations to improve and/or develop the environment. The conference will be held from 10am-12noon and 2-4pm in the Band Shell at Brookside Park (south of the Rose Bowl). There will also be bands, colorful displays, and food concessions. Caltech will have a shuttle service to the event from the JPL Bus stop at the corner of San Pasqual and

Holliston. The first bus will leave at 9:15 and will return at 1:00. The second bus will leave at 1:15 and return at 4:00.

Date a Prof! The Y is sponsoring money toward non-academic interaction between students and faculty. If you'd like to take one of your professors out to dinner, a movie, concert, sporting event, etc., come see Brian Redin in the Y office for approval of \$25 per student/faculty couple.

Movie Tickets: The Y also has discount movie tickets for all United Artist theaters. Ticket prices are \$4.

Diversity at Caltech: The Diversity Panel Focus Discussion is either diverging or converging for their next meeting on Friday, April 27, in Winnett Lounge from 12-2pm. Join the second round of talks on diversity and enjoy some free refreshments.



Tales from the Darkside: The Movie opens next Friday, April 27th. The film includes stories which couldn't be made for television.

Tales from the Darkside

Brace yourself for terrifying tales from the Darkside...

"Tales from the Darkside: The Movie" is a contemporary horror thriller based on stories by Stephen King and Sir Arthur Conan Doyle. The film stars Deborah Harry, James Remar, Rae Dawn Chong, Christian Slater, David Johansen, and William Hickey. Robert Klein co-stars.

"The film brings moviegoers the stories that, frankly, we couldn't make for television," comments Richard P. Rubinstein. "In the course of exploring a great deal

of existing horror material during a period of many years, we came across stories, which for various reason—relating to the scope, subject matter, or the intricate effects required—were better suited for the big screen."

Director John Harrison describes "Tales from the Darkside: The Movie" as "a roller coaster ride of a film that combines three chilling horror tales with a startling connecting story by Michael McDowell that features Deborah Harry as a sinister suburban housewife."

Men's Glee Club Stars at UCSB

By Lei Chen

In early morning, March 23rd, the members of the Caltech Men's Glee Club headed off to UC Santa Barbara for what turned out to be a weekend of fine music making with fellow singers.

The Intercollegiate Men's Chorus Festival held in the picturesque campus of UCSB featuring various choruses and chamber groups with equally varied repertoire. The main attraction, apart from whale watching, was the performance of Argento's "The Revelation of St. John the Divine" by the Caltech Men's Glee Club.

The piece is written for tenor solo, male chorus, brass, and percussion. As the scoring might imply, it's a contemporary piece. During the first term, when the group first started rehearsing, many were baffled by the strange harmonic and rhythmic devices used in the music. But Don Caldwell, director of Men's Glee Club, promised that "it will come eventually."

After two terms of rehearsal, the piece eventually took shape. Yet, there was still doubt whether the audience will appreciate the music; after all, Argento is no Handel or Mozart. During the performance, however, everything came together: the director, the soloist, the orchestra, the chorus, and the audience: the director and the soloist received three curtain calls.

I personally learned two things from this extraordinary experience. First of all, as long as there is dedication and persistence, one will be able to learn and appreciate many different forms of music. Secondly, even though Caltech is a scientifically oriented college, judging from the reaction of the audience after the performance, we have no less talents than other schools in the area of fine arts.

The Caltech Glee Club and the Caltech Brass Ensemble will perform Argento's "The Revelation of St. John the Divine" on Friday, April 27 at 8 p.m. in Dabney Lounge. Also featured are music ranging from Baroque to the Twentieth Century by the Brass Band. Admission is free and all is welcome.

ASCIT Teaching Awards

ASCIT will be giving several teachers a teaching award. If you would like to nominate a teacher or TA, please send their name and the reason why you think they deserve the award to

ASCIT Teaching Award 41-58

Communism in Crisis?

By Huy Cao

Will the present political climate lead the world inevitably away from ideological communism? Last year, the world watched the beginning, and then forceful halt of youthful, democratic hopes in China. For the last few months, we have heard shocking, exciting and undreamed-of news coming from Eastern Europe.

What historical as well as recent political factors allowed for turning away from ideology in Europe, but not in Asia and other places? What is the immediate and far future for those places?

Caltech is fortunate to have two world-known human rights speakers from France, Mr. Vo Van Ai and Ms. Penelope Faulkner, speak on changes in the political and hu-

man rights situations, with emphasis on Vietnam. For decades, they have been leading writers and humanists in working for peaceful change and unity for an ever-changing, ever-manipulated country, Vietnam. Presently, Mr. Ai is Vice-President in Asian affairs for the European organization, International Federation for Human Rights.

The program "Communism in Crisis: Movement Toward Democracy in Vietnam" will include an informative lecture at the beginning, followed by an extensive question-and-answer session with the audience.

Please join us for the talk this Thursday, April 26 at 7:30 p.m. in the Baxter Humanities Lecture Hall.

ASCIT MINUTES

Present: The ASCIT BOD, Sonny Arcilla, Deepi Brar, Huy Cao, Joe Caroselli, Alecia Chen, Danny Chu, Jason Curtis, Gary Eastvedt, Matt Fields, Dan Frumin, Jerry Hauck, Chris Ho, Mark Huie, Steve Hwan, Mike Lazzaro, Andrea Meija, Bappa Mukherji, Celina Mikolajcak, Marty O'Brien, Andre Ohanessian, Dan Pang, Maneesh Sahani, Michael Simpson, Paul Socolow, Eric Stout, Michelle Tseng, Emily Wen,

Appointed Offices: After a lengthy interview process, the new officeholders for appointed offices were approved by the BOD, and are listed below:

Big T Editors: Celina Mikolajcak,

Dan Pang, Michelle Tseng, and Emily Wen (6-2-0)

Big T Business Managers: Joe Caroselli and Alecia Chen (4-3-0)
little t Editors: Deepi Brar and Danny Chu (7-0-1)

little t Business Manager: Dan Frumin (8-0-0)
The California Tech Business Manager: Sonny Arcilla (8-0-0)
Totem Editor: Michael Simpson (4-3-1)

Election Chairman: Mike Lazzaro (8-0-0)
Darkroom Chairman: Michelle Tseng (8-0-0)

Aimee Smith's social committee comprised of two or three members from each house was approved (8-0-0).

Approval of Dave Geraghty's Excomm comprised of Steve McLaughlin (chairman), Dean Brettle, Larry Cheng, Cathy Hafer, Mike Lazzaro, Pete Rogan, Maneesh Sahani, and Anna Yeakley was delayed because the BOD would like to see a person from each house on the Excomm. If you are from Page, Ricketts and would like to be on the Excomm, contact Dave (440-0826).

Comments during appointed office interviews:

Mike Lazzaro: "I won't be anal-retentive."

Maneesh Sahani: "I have a vast experience with legalese."

Sonny Arcilla: "It's all money." Jason MacLeod: "Sonny, How much are you going to gross off of ASCIT this year?"

Sonny Arcilla: "I'm comfortable with anyone. I'm a Flem."

Andrea Meija: "Marty likes to drive around."

Dan Frumin: "I like to listen in on what people say."

Pam Katz Rosten: "Who's Steve McLaughlin?"

Aimee Smith: "That really cute guy."

Human Rights Speaker: Huy Cao says the initial budget projection for bringing the speaker was a little short, so he asks for an additional \$40. Mark Lyttle thinks the extra \$40 should come out of the Vietnamese Student Association's club budget, but the rest of the BOD

wants to give it to him out of the general fund. The BOD approves (7-1-0) to give Huy Cao \$40 out of the general fund.

Andre: Andre Ohanessian comes in, sees there is no food left, and he leaves.

1990-91 ASCIT Budget: The BOD approves (8-0-0) the projected budget as stated:

Income:	45000
---------	-------

Expenses

Salaries

little t editor	200
CLUE editor	400
Publications Darkroom	150
UROH Editor	100

ASCIT Organizations

Athletics	4500
BOC	1500
IHC	600
ESC (Social Committee)	10000
Research Handbook	600
Movies	6675
Totem	1000

Loans

Big T Loan	1140
Van Loan	1000
Other Costs	600
Insurance	7000
Clubs	9095

Total Expenses

43960

This leaves approximately \$1000 for other club expenditures or social activities. For a detailed list of money budgeted to clubs, please contact the ASCIT treasurer, Pamela Katz Rosten. Aimee discusses the breakdown of the social budget, but nothing is finalized.

Stats: Most people at an ASCIT meeting: 36. Amazingly, in a two hour meeting there were only three courses, one each by Dave Geraghty, Mark Lyttle, and Jerry Hauck. In Aimee's approximately three minute talk about the social budget, she said the word "like" eleven times.

Next Meeting: No known topics for the next meeting on Tuesday, April 24 at 10:30 p.m. in the MOSH's office. Free food and drink for all in attendance.

LORENZO'S BARBER SHOP

Ask for Your Caltech Student Discount!

Unisex Hairstyling	
Regular Cut (men)	\$ 900
Regular Cut (women)	\$ 900
Style Cut	\$1200
Permanent Wave	\$4000

9 a.m.-6 p.m., Monday-Saturday
14 N. Mentor Avenue, Pasadena

(818) 795-5443

No Appointment Needed



STATE FARM
INSURANCE COMPANIES
HOME OFFICES: BLOOMINGTON, ILLINOIS

ROBERT NICHOLS
Agent

1376 East Walnut Street
(Corner Hill & Walnut)
Pasadena, CA 91106
Off.: (818) 795-4347

28
YEARS
REPRESENTING
STATE FARM
INSURANCE

La Grotta di Capri Pasta House

Discount with Caltech ID:

Dinner for 2 for \$11.95

includes pasta dish
with soup or salad and selected dessert

(818) 796-7652

1770 E. Colorado Blvd.

PASADENA

Located near the corner of Colorado & Allen
(parking in rear, enter from Meredith Ave.)

Make a fast break to the beach or mountains with the Civic Si.

There's a powerful fuel-injected, 16-valve engine, with a 5-speed manual transmission and 4-wheel double wishbone suspension. The Civic Si gets you where you're going.

And there's lots of room for you and your stuff. Plenty of headroom, legroom and cargo room.

Open the power moonroof and

hit the road in your Honda Civic Si, but first, take a quick trip to your campus placement office and ask for a copy of *The Wall Street Journal's Managing Your Career* guide, sponsored by Honda.

Because the Civic Si isn't the only thing that'll take you places.

HONDA
The Civic Si

To see the full line-up of new Honda cars contact your campus representative

Matt S. Himmelstein

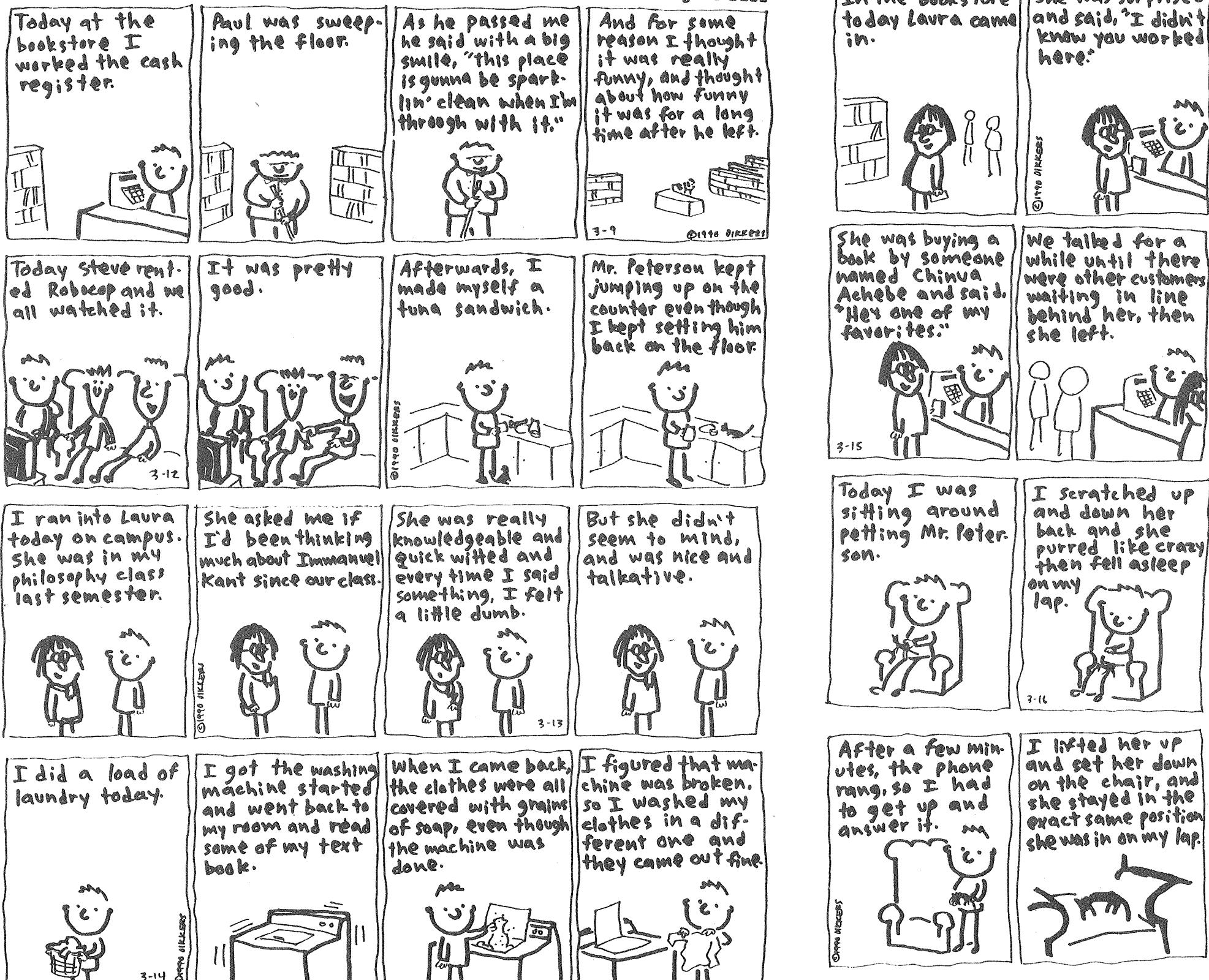
California Institute of Technology, 1984-1988

ready to assist you at

Colonial Honda

144 S. Glendale Ave.
Glendale, CA 91205
(818) 244-8674
(213) 245-0431

Seniors, your letter of employment may be all the credit you need to finance your new car from Colonial Honda.

Jim's Journal

**WRITE
FOR
THE TECH**



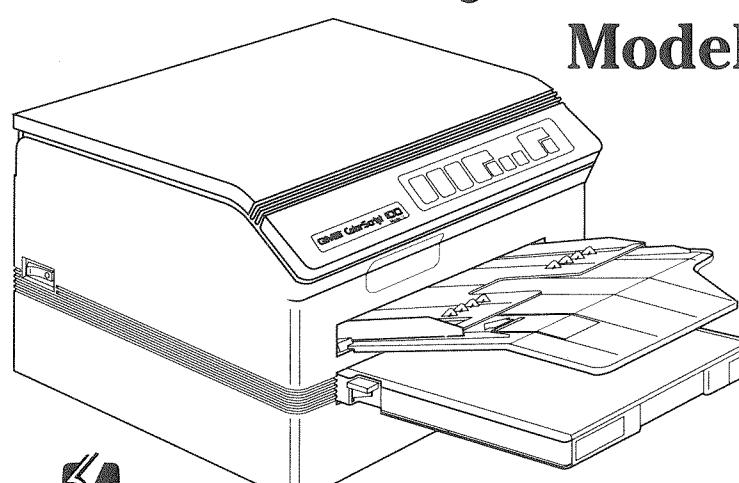
Searching for "COMPUTER STUFF?"

Special \$186⁰⁰
Ready to Assemble
Reg. \$231⁰⁰

Q SALES 818 449-1590

2341 E. Foothill Blvd. Pasadena
1 block West of Sierra Madre
Computer Furniture & Accessories Home-Office

The QMS ColorScript™ 100 Model 10 printer.



POSTSCRIPT

- Prints high-quality Adobe® PostScript® text and graphics at 300 x 300 dots per inch.
- Up to 16.8 million vivid colors for true-to-life proofs and outstanding originals on paper or transparency film.
- Generates quality four-color hard copy simulation of PANTONE® Colors, the printing and graphics industry standard for color reproduction, by interfacing with qualified PANTONE Color software.

Product information and pricing available at:
C.C.O. Front Desk, 158 Jorgensen Building.
Phone: (818) 356-4612
Printer available in the Mac® Lab.

QMS

© 1990 QMS, Inc. The following are trademarks or registered trademarks of their respective companies: QMS, the QMS logo, and QMS ColorScript of QMS, Inc.; Adobe, PostScript, and the PostScript logo of Adobe Systems, Incorporated; Mac and AppleTalk of Apple Computer, Inc.; Centronics of Centronics Data Computer Corporation; HP and HP-GL of Hewlett-Packard Company; *Pantone Inc.'s check-standard trademark for color reproduction and color reproduction materials. PANTONE Colors generated by the QMS ColorScript 100 are four-color process simulations and may not match PANTONE - identified solid color standards. Use current PANTONE Color Reference Manuals for accurate color. PANTONE Color simulations are only obtainable on this product when driven by qualified Pantone-licensed software packages. Contact Pantone, Inc. for a current list of qualified licensees.

The Inside World

This Week's *Inside World* was written by:
Blacker: Walker Aumann and Noam Bernstein
Dabney1: Seth Noble
Dabney2: Robert Hanna
Lloyd: Curt Hagenlocher and Dave Jeitner
Page: Michael Simpson
Ricketts: Joe Dadek

Blacker	25 18 1 0 5 6
Dabney	38 18 2 0 1 3
Fleming	20 18 0 0 0 0
Lloyd	27 13 0 0 3 3
Page	15 18 0 1 4 5
Ruddock	33 12 0 0 0 0
Ricketts	23 25 3 2 2 7

Ricketts

Peeved. Peeved I am at the incredible lameness of this sorry word processor ButtStar, which ate the brilliant RHIS that I just spent an hour and a half writing. Well, you'll all just have to settle for what I can reconstruct from memory, so there.

First, Fun with Frosh. After the rash of door-plate flipping reported here last week, the Snatch Frosh declared war upon the L.D. Frosh, the suspected perpetrators of the heinous acts (they were wrong). Bring their vast arsenal to bear on L.D., the alley was converted into a bleak battle zone within a half day. However, a U.N. peacekeeping force was sent in to cease the hostilities, and L.D. was able to claim victory at the next dinner.

This last weekend featured a most excellent housewarming/birthday/engagement/going-away party at Fuzzy and Steve's. Much bread and fruit were had by all. Entertainment was provided by Drew and the woman in the corner.

Research after Easter dinner revealed that playing Pictionary against Lisa and George is utterly futile. A challenge

is extended to any team that the house can field to attempt their defeat.

Also on Easter, the Toast Bunny visited everyone in the house and several people off-campus. DanLip discovered a mysterious egg in his cabinet which he identified as belonging to some type of lizard. Other house members found foil-wrapped malted milk eggs in various places, some of which bore a striking resemblance to the lizard egg.

Thanks to whatever event took place Tuesday which caused the absence of most of the women in the house, we had a true Pumped-Up Real Men dinner. Joining the men in pumped-upitude were Atiya, Helen, and Andreja. With the sweet young things who restrain our normal activities gone, we were able to devise all manner of plots to deal with the Anti-Feminists society (and the Secret Sisterhood). They'll never know what hit them.

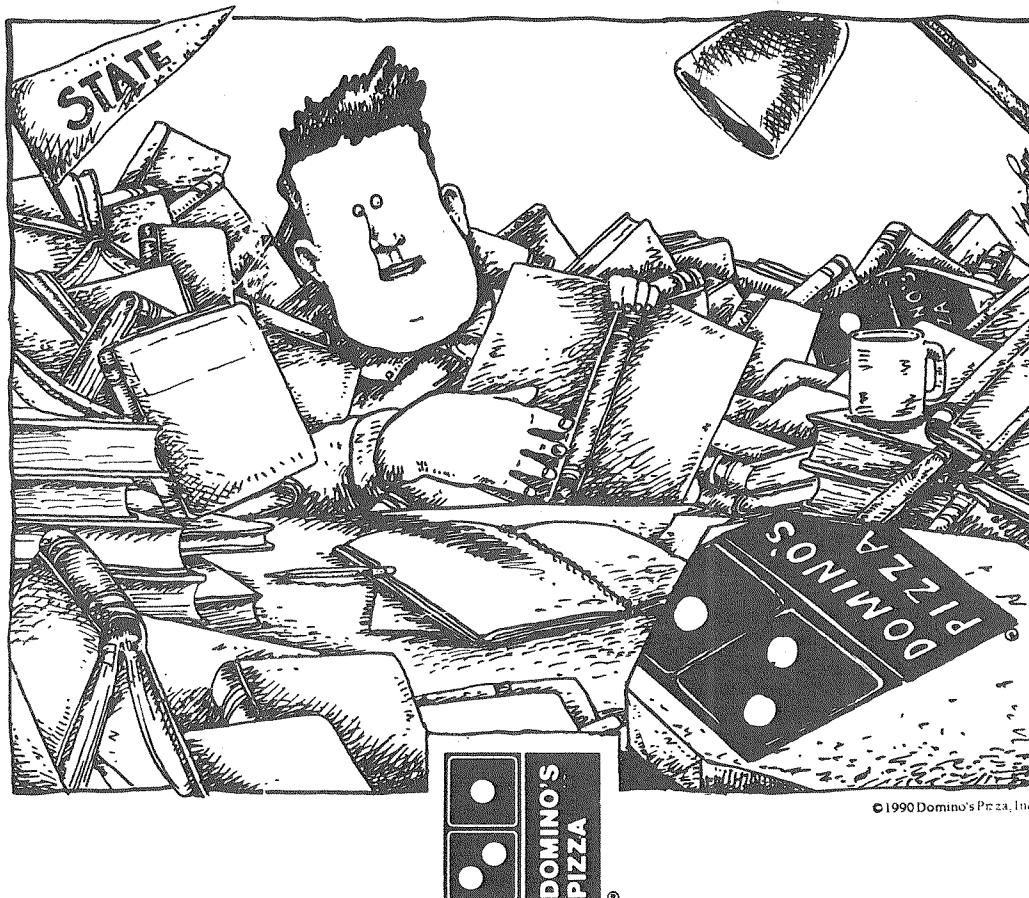
Senior Profile: Scott Richmond, aka Scooter, aka N-Balls. Scooter is an AMa, originally from the class of '86, who returned from a lengthy leave between his sophomore and junior years to graduate with the class of '90. Scooter is well-known as one of the most obnoxious people in Ricketts and as the largest nose since Samer graduated last year. He attempted to pass a Cadbury's egg up one nostril and out the other Monday, but spazzed and accidentally inhaled both bridge tables. A little pepper was sufficient to recover them with only a few minor dents in the lounge walls.

Who's Doing Whom: DWeaver is involved with someone in the house, but exactly whom is uncertain. I vote for Meera. This thing with Jon Hampkins is merely a diversion. Tom R.'s friend Heidi was visiting last week, giving everyone the opportunity to "Shower Heidi." Tom took his chance when she played the Ride on his stereo. Leah, Joanna, Kirsten, and Mags have been seen together a lot. Just what is involved in this Anti-Feminists society anyway? So, Russ is living in Snake now. This is clearly designed to facilitate his secret rendezvous with Satomi. The cats are starting to show the classic symptoms of sexual abuse. Also, they seem skittish whenever they see Frank's boots. Are the boots so ugly that they have taken on consciousness and a will of their own? Gonzo claims that his celebacy has lasted months. Given that his sense of time is distorted by this condition, I would guess that it has been nearly a week.

Just say no to Butt Polish.

- The Physics Messiah

COLLEGE LIFE CALLS FOR DOMINO'S PIZZA.



IT'S TIME FOR DOMINO'S PIZZA.
Call Us! 584-0866
 2385 Colorado Blvd. • Pasadena

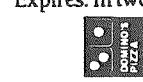
12 MINUTE CARRYOUT / 30 MINUTE DELIVERY OR \$3.00 OFF.

CALL US
\$7.99
 MEDIUM PAN OR
 ORIGINAL PIZZA
 WITH
 TWO TOPPINGS.
 Additional toppings extra.
 Coupon Required.
 Expires: In two weeks.



Valid at participating stores only. Not valid with any other offer. Prices may vary. Customer pays sales tax where applicable. Delivery areas limited to ensure safe driving. Our drivers carry less than \$20.00. Our drivers are not penalized for late deliveries. DPJ-90-220A

CALL US
STARVING STUDENT SPECIAL!
 Buy a medium California Vegi, Vegi, Fiesta or Hawaiian pizza and get a second specialty pizza for only \$4.00 more. Additional toppings extra. Coupon Required. Expires: In two weeks.



Valid at participating stores only. Not valid with any other offer. Prices may vary. Customer pays sales tax where applicable. Delivery areas limited to ensure safe driving. Our drivers carry less than \$20.00. Our drivers are not penalized for late deliveries. DPJ-90-220B

CALL US
\$2.00 OFF!

Get \$2.00 off any large Original pizza with two or more toppings. Coupon Required. Expires: In two weeks.



Valid at participating stores only. Not valid with any other offer. Prices may vary. Customer pays sales tax where applicable. Delivery areas limited to ensure safe driving. Our drivers carry less than \$20.00. Our drivers are not penalized for late deliveries. DPJ-90-220C

ASK ABOUT OUR NEW EVERYDAY LOW DOUBLE PRICES!

The Inside World

Dabney1

Enough is enough! Ever since Dave "Suck My Dick" Edwards wimped out and quit writing the *Inside World*, Dabney gossipers have been under a virtual state of siege. Without a standardization of rumors, stories, and vicious gossip even the slightest suggestion of what that occasional early morning music from the Alley 6 shower might be is met with rebuke and dismay. Let's face it, Dabney is a family and as such it is our duty to stick our noses into one another's business as far as it will go. (Farther for some than for others). In an act of what must be either a miraculous culmination of eons of divinely inspired destiny, or just blatant stupidity, a sizeable number of people (names altered to protect the guilty: Llij, Hcir, Nehpets, Noj, Yma, Cte.) have asked that I fulfil this task. I therefore submit the following list of speculation, rumor, and general almost-kind-of-close-to-but-just-the-width-of-Dave-Edwards'-Dick-away-from-truths:

In the pursuit of their manifest destiny to create the world's messiest table, those crafty Fun-Frosh thwarted the plans of those evil-sneaky-coniving-please-don't-forget-my-Dr.-Pepper-ever-plotting waiters by (get this) *sitting at a different table*. The subsequent plan to confuse the messy frosh by setting half the tables in the dining room at a diagonal almost succeeded though when Carlos "Do It On a Next" Salinas, official sponsor of the 1989-90 Dabney Fun Frosh, couldn't figure out where his seat was. But all was saved in the nick of time by adhering to that great Caltech motto: Aw Fuck It!

Last night, in the game room, the First Millennial Meeting of the Committee for the Beautification of Pluto held its first meeting. Due to an unfortunate and somewhat messy misunderstanding between NASA and NORAD, however, none of the delegates were able to attend.

Drug use continues to run rampant in Dabney! Even as I type this article a Frosh is shooting himself up with Heparin Sodium. Oh the humanity!

Mike Lazarro has become

$$\lim_{n \rightarrow \infty} \sqrt{(20^2 + 12(21n^2 + 3)/(3n^2 + n))}$$

A previously unsuspected group of apparently normal Darbs has been subverted by the communists and is secretly plotting to take over Dabney house. The one trait that they all seem to share is a perverse and almost fanatical lust for Pete Wyckoff's room.

A suspicious person was sighted in the Dabney courtyard wearing cut-off jeans, a tie-die T-Shirt, and no shoes. Anyone with any information as to the identity of this dastardly offender to human decency should report them immediately to the MOSH's office or to the local CIA rep., whomever she may be.

Amy Stern, noting that Rich did not come to bed Saturday night, believes that he may have been sleeping with Ivar. Coincidentally Ivar reports that someone is trying to break into his room. Could there be a connection? Rich has yet to comment...

There! That should satisfy the rumor mongers for another week . . . or at least until the Pre-Frosh leave! For future reference, please submit all vicious rumors, personal attacks, innuendos, and otherwise unsubstantiated facts to...

The Patched Fun Frosh

Dabney2

Hey everybody, what's shaking? Due to popular demand, or so I'm told, I am writing the inside world this week. But let's preface my comments with some disclaimers. This article is satire, and nothing more, so don't get offended. Also I cannot be held responsible for the accuracy of the accounts detailed here. And I promise to abide by the tenants of this constitution to the best of my abilities. Whoops, got off on a tangent there, but you can't be too careful when you put something in writing, people can twist it around and use it against you. A wise old hog . . . uh . . . bird told me that. It's a good thing we have a crack team of professionals working on our problem. Here's a suggestion:

ARTICLE XIII: Constitutional Committee

The purpose of the constitutional committee is to take a problem whose answer is nebulous and increase its elusiveness. Also it may evict the president from his room at all hours they deem necessary. The traditional response when questioned being "No, it's not going quickly."

Excuse me if I have borrowed my style from some other source, but I wouldn't want there to be any type of non-homogeneity. Well anyway, let's get down to business. Congratulations to our newest member, Dan, who started his membership off with a bang, so to speak. You know, a lot of us thought that Dan might do something silly to gain acceptance in this house of would-be renegades, it's good thing we were wrong. So in a sense last Friday was Friday the thirteenth to some members of Dabney and Good Friday to the rest. But one good thing came out of the oh so infamous incident of last week. Our very own Rich Zitola became famous for his heroism, gallantly putting himself in the realm of danger to save the life of Pasadena's fire department. Amazing Rich, Blacker was foolish to give you up. Well . . . maybe just impatient.

Speaking of frosh, rumor has it that one of our frosh has gone off the deep end. Out in the weatherworld of psychological existence, and he is a voyager. They say that the frosh is even becoming paranoid. Well, we all know who you are and why you've been acting strange lately, so give it up. That should handle things. Just one more argument to have Las Encinas listed as an off-campus alley.

Uh oh, my tact meter just went off the scale. I may have to stop soon. But before I do I like to commend the Rocky Horror faction of the house and as a special incentive this week Rob Hanna himself may be appearing as Eddie at the Nuart, but then again, maybe not.

It seems that with Earth Day on the horizon, we at Dabney are trying to be environmentally conscious. We have recycling bins all over the house for everything. Too bad, I can think of some of the members of the house that have outlived their usefulness, maybe we could send them away so that someone else could make better use of them. Boofneauuu.

On a final note, here's a happy birthday to Mike. Nice jacket Mike. I wonder if Elaine likes leather too. But it can't be your birthday every week so be careful next time.

Finally on a more humorous note, comes a message from 360. Our favorite gal of the hour, Diana, is having a little trouble with Wertz. It seems that he has chosen a new fashion statement that Diana doesn't quite see as proper. But who's to say what's proper? After all, these days people cut all kinds of messages into their hair. It's just that Wertz is a tabula-rasa kind of man. Just remember the old adage Diana "Take the skinheads bowling, take them bowling."

See ya'll next time and remember: Stay hip to this Caltech scene.

—that 60 babes guy

Blacker

BEAUTIFUL INSIDE WORLDS FOR UGLY PREFROSH

Dexter awakens early to catch his morning flight to LA for Caltech's prefrosh weekend. He is met at the airport by a pair of scruffy-looking guys in Iron Maiden T-shirts, who shout, "Welcome to the jungle, dude." Dexter begins to reconsider his decision to get out of bed this morning.

After an uneventful bus ride, Dexter is accosted by a man dressed completely in Day-glo. "Hop in, dude" he says, barely audible over the loud obnoxious music coming from the speakers of a supersymmetric Camero.

"What is that awful sound?"

"Pirate Radio!! Lock it on, dude." A short but nerve wracking drive gives way to a long but boring registration line.

"This is Marty O'Brien. This will be your host." Dexter winces as he sees an unkempt Texan who looks like he has just woken up.

The Inside World

A short walk across campus brings Dexter to Blacker lounge, a large room with a blazing fire and a very dilapidated pool table. Cries of "Tommy's!" bring hordes of people to the lounge. Marty, Dexter and four others go in Marty's car to Tommy's.

To his surprise, Dexter finds out that at Tommy's, all food is served with a brown paste that everybody else claims is chili. The sight of this is nearly enough to make Dexter pass out. After trying to eat what the others call a "triple threat," Dexter proceeds to pass out.

He awakens in the Atheneum parking lot at the feet of a security guard. "What are you doing here?"

"I'm a prefrosh. I'm visiting the campus for the weekend."

"Can I see some ID?"

"Um, yeah, sure... it's around here... it was right here a minute ago..."

"I'm afraid you'll have to come with me." After some questioning and a couple of phone calls, Marty shows up and Dexter is released with only a warning and a mention in the next week's Crime and Incident Beat.

As Dexter arrives in Blacker, the walls begin shaking violently as the floor buckles beneath his feet. "Oh no, it's the big one!" Dexter dives under the pool table for safety as a crack in the earth opens up and swallows Blacker Hovse.

After a long fall, the house lands gently. Going outside to explore, Dexter finds himself in a large clearing with many small buildings, several paths, and lots of bright green vegetation.

After a moment, he notices a small pea floating in the air, moving slowly towards him. As the pea gets closer, it grows until it is taller than Dexter. It winks at him, and then fades, revealing a beautiful woman. "Are you a science and engineering major, or a liberal arts major?" she asks.

"I'm not majoring in anything yet - I'm just a high school student trying to decide what to do with my life." As he says this, he hears many giggles from the surrounding vegetation. "What's that?"

"Those are just the undergrads. They live here, in these tiny little rooms. I am Suzette, Good Witch of the West. These undergrads used to be abused and charged by the Wicked Witch of the North, who lived in the Housing Office that used to be right there. Look!" Underneath Blacker Hovse are the crumbled remains of the Housing Office.

Suddenly, there is a large explosion of smoke and flames, and a dark, robed figure appears. "I am UASHor, Evil Master of Harshness. What have you done to my sister? Where is the Big Ruby Drop Card?"

"There it is," says Suzette, pointing to a small rectangular card clenched in a hand protruding from underneath Blacker. The card disappears and the hand vanishes.

"What have you done with it?"

"There it is," says Suzette, pointing to Dexter's shirt pocket, "and there it will stay. Now go before someone drops a house on you!"

"Very well, but I'll get you, my dearie, and your little gerbil, too!"

"What gerbil?"

UASHor disappears in a burst of flames, leaving behind a small gerbil.

"This is all fine, but how do I get home?"

"Ask the wizard. Just follow the Path of Least Resistance." With that, Suzette is swallowed up by a gigantic pea, and bounces away.

After a long walk, he finds himself at a crossroads. "Now where do I go?"

From somewhere along the side of the road, he hears a voice. "Left is a fine way to go. They're all fine ways to go." Looking toward the voice, he sees a human figure, sprawled comfortably across a fence, with straw for hair, and mush for grades.

"Oh, stop that. They got rid of the gag rule. Tell me which way I need to go to find the wizard."

"I can't; the directions are too complicated. You see, I don't have a GPA."

"Maybe if you come along, the wizard will give you one."

"Okay." They began walking toward the Gray City. As they continue, they come upon a lightly wooded forest. Crouched next to a toolbox and a pile of smoke alarms is a large woodsman wearing a flannel shirt.

"Can we help you?" says the scarecrow.

"No, I'm beyond help. I have to stay here, fix these, and do my homework because I haven't got a life."

"We're going to see the wizard. Maybe he can give you a life."

"Sure, I could use a good flick." Arm in arm they continue toward the home of the wizard. As they go, the forest gets darker and thicker.

"I'm getting scared," announces Dexter. "Do you think there are any drug dealers or gang members out there?"

"No, I don't think so. Just demons and dragons and orcs."

"Demons and dragons and orcs, oh shit!"

Just then, an obnoxious orc bursts out of the woods. "I'm going to show a movie in my lair tonight, and all of you are going to be there. And remember, financial aid forms are due May 1st."

"You could use some tact. Maybe the wizard could help."

Eventually the forest breaks, and they come upon a large open beach with the Gray City on the shore just beyond the next hill. They start to run for the city when they are distracted by calls of "lay out!" and "ultimate!" Soon, they are enthralled in the game and forget about the wizard.

Just as things are looking their worst, with the game going on forever, one of the participants calls out, "yo yo disk", lays out trying to catch it, and lands badly, dislocating a shoulder. The game breaks up quickly and everyone hurries back to the Gray City.

"Drat," fumes UASHor. "That goody-good always manages to find a way to save them. I'll have to take matters into my own hands."

Dexter and his companions are granted an audience before Harry, the Wizard of Gray. "I know why you all have come. I will grant your wishes, but first you must show your worthiness by destroying UASHor."

The four companions leave the Gray City and set off across the beach to find UASHor when suddenly UASHor appears before them. "You will not escape me this time. Hand over that drop card."

Dexter, in this dire moment, takes his first step away from cluelessness. "Ocean him!" After a couple of minutes, the fight is over, and UASHor is thrown into the ocean.

"I'm dissolving! Help, I'm dissolving! Who could have thought a wimpy prefrosh like you could destroy my beautiful harshness!"

When Dexter and his companions return to Gray City, the wizard grants them another audience. "Scarecrow, you've got all the brains you need to have a good GPA. All you lack is incentive. Here is your incentive: the better you do, the sooner you can leave."

"I'll be out of here in no time!"

"Woodsman, lives are transient things. What you need is something more permanent, something that will last a lifetime. Take this ring and it will help you find this."

"Thank you, sir, but how does it work?"

"That's easy - spin orbit coupling. Now you, orc. All you need is something to tell you when to lighten up. Take this watch, and its alarm will tell you when that time comes."

"Thank you, sir." Beep beep beep.

"And now for you, Dexter. You've had the power to go home the whole time. Just let me sign the Big Ruby Drop Card, and you'll be on your way. Hit your head against the wall three times and say, 'There's no major like ceramics.'"

Dexter awakens on a plane, mumbling something about pottery. It all seems like one hideous dream except that he knows it was real. His parents meet him as he gets off the plane. "How was your trip?" asks his mother. Dexter pulls out an Uzi, shoots both his parents, and moves to Northern Canada to lead a blissful life making pottery.

The Inside World

Lloyd

We just finished reading the dictionary, and decided to share some of the more exciting definitions we found. (Source: Webster's New World Dictionary, Second College Edition)

Clifton n. 1. a masculine name 2. city in NE New Jersey, pop. 74,000

curt adj. 1. short or shortened 2. brief, especially to the point of rudeness 3. terse or brusque

duke n. 1. a prince who rules an independent duchy 2. a nobleman of the highest hereditary rank below that of prince

3. [Slang] the fist or hand

Garland n. 1. a feminine name 2. city in NE Texas, pop. 139,000

jack n. 1. a common fellow or boy assistant 2. a man or boy 3. a fruit-flavored alcoholic liquor 4. any of various machines used to lift, hoist, or move something heavy a short distance 5. a male donkey 6. a playing card with a pageboy's picture on it

jenny n. 1. the female of some birds 2. a female donkey

jimmy n. a short crowbar, used by burglars to pry open windows

john n. 1. a toilet 2. any man, especially one who is an easy mark 3. a customer of a prostitute

mark n. 1. a cross or other sign made on a document as a substitute for a signature by a person unable to write 2. a person against whom an attack, criticism, ridicule, etc. is directed 3. an intended victim of a swindle

peter vi. to become gradually smaller, weaker, etc. and then cease or disappear

randy adj. 1. coarse; crude; vulgar 2. sexually aroused; amorous; lustful -n. 1. a coarse, vulgar, quarrelsome woman; shrew

NEXT WEEK: The Inside World so shocking - we couldn't print it over Prefrosh Weekend!

Jim's Journal

Today Tony was listening to a top-40 radio station.

He was cleaning up some of his stuff around the apartment, singing along with the music.

Then some commercials came on - the kind with music in them.

And Tony sang along with them too.

by Jim

3-28

3-29

3-29

3-29

3-29

3-29

3-29

3-29

3-29

3-29

3-29

3-29

3-29

3-29

3-29

3-29

3-29

3-29

3-29

3-29

3-29

3-29

3-29

3-29

3-29

3-29

3-29

3-29

3-29

3-29

3-29

3-29

3-29

3-29

3-29

3-29

3-29

3-29

3-29

3-29

3-29

3-29

3-29

3-29

3-29

3-29

3-29

3-29

3-29

3-29

3-29

3-29

3-29

3-29

3-29

3-29

3-29

3-29

3-29

3-29

3-29

3-29

3-29

3-29

3-29

3-29

3-29

3-29

3-29

3-29

3-29

3-29

3-29

3-29

3-29

3-29

3-29

The Inside World

Page

It's a new term and an all-new attitude Page Inside World! In fear of heat from the MOSH's office, the parents who receive *The Tech*, and the enraged women of Tech, the new Page Inside World will be devoid of lewd sexual allusions. But wait, don't throw the paper away so quickly! There's still lots of "clean" fun on the way.

This Inside World writer would first like to address the growing problem of campus "polarity." Yes, I am concerned that the houses have grown too far apart in their years of existence, creating a tense social atmosphere between the students of different houses. The very heart of the problem seems to be a belief that each of the houses has its own character, and thus the students are incompatible with each other if they are from different houses. This simply isn't true. To show how these beliefs are twisted and distorted images of the truth, let's look at the general stereotypes (if not Page biased) of the various houses:

Page: the social mecca... (I didn't think you'd go for that one!) An athletic-minded house with a large variety of students who usually opt to move off campus due to a house which gets trashed every weekend and is full of inconsiderate chaps who blast Guns-n-Roses at 2:00 am.

Lloyd: Another house with a variety of students who nevertheless tend to reminisce on the old days in high school and love to form social cliques. They also have lots of money to play with and like to play alley rugby and tennis in their spare time.

Ruddock: Much like Lloyd except devoid of alley rugby and tennis. They like to go around video-taping each other and other houses doing silly things. Known for a peculiar tolerance of drunk frosh-Page Boys making lots of noise and wearing beer cartons on their heads on Wednesday nights.

Fleming: A very athletic-minded house. I was going to write something about the thunder-herd, but it slips my mind at the moment. Also known for hating Page, even to the point of representing biased opinions in IHC meetings. A classy bunch of fellows who seem kind of normal when encountered alone, but who tend to urinate on opposing houses when in groups or when a camera is pointed their way. I also heard something about the square-root club, but it's kind of mathematical and not deserving of being in an Inside World.

Blacker: They like to have long dinner announcements and call themselves Moles. For some silly reason, more frosh want to be in this house than any other every year. Yet, many of the people who get into the house seem to fall into one of two narrow categories: females and Mr. Rogers-Wanna-Be's. They generally seem to be weird though, in a cool way. They walk around in shoes, seem sociable, and know the difference between NO₂ and nitrous.

Ricketts: A common sight during rotation in this house was people climbing on a fireplace barefooted! These guys and gals call themselves Scurves and seem to gain pride in their individuality. What's more individual than ninety people all trying to be different? Hmmm!!! Well, their main characteristic is bare feet. They seem to think that it's OK to prop filthy, bare feet up during lectures in front of a bunch of people who just ate lunch and are wearing shoes and have showered in the past week! Enough said...

Dabney: The best for last? Well, what can be said about the house of Darbs that hasn't already been brought up in the MOSH's office?

You must be asking yourself, so what's all this have to do with campus unification? Well, it's best seen in a colorful example. Take Page and Lloyd, for example. Though their general characteristics are different, the students in these houses do have things in common. If you remember, I said Lloyd is notable for having cliques. Well, Page has cliques too! The following is but a short list of cliques that have developed over the past few years in Page:

The Waytor Clique: Fred (too bad he's gone...), Hardnuts, Schamu, Big Dave Ross, Glass Firing Carl Fire-Robin, mild-mannered Mike Salisbury, Spurts-Curtis, and M'Adam Adam. Can't say too much about these fellows, they'll punch me in the stomach if I get out of line!

The Beer-Drinking Clique: All of the above Page-Boys plus Beer Bastard Paquito "Potatoe" "Long live the Alamo!" Gomez, Jay "Baseball attendance incentive plan" Bromley, "Pit Bull" Steve Perry, and Lan "Good ole boy from down South" Smith. These guys were very instrumental in saving the beer fridge from near death and the conversion of the library into the beer room!

The Happy to be Gambling Clique: "Pit Bull," Brooks "He's almost a legacy" Bishopberger, "Oh No!" Hoa Ngo, Bappa of Radio BAPA, and Fred "Oh, we miss him..." Sloneker.

The Pussy-Whipped Clique: (Please excuse the flagrant reference to sex...) Boppin Bappa, Mark "She'll be sixteen soon!" Schmidt, Carl Fire-Robin, Steve Perry (?), and Robert "D. Knob" Whiteley.

The Wanna-be-Pussy-Whipped Clique: The Bad Boys from Bombay, "Glom-Master" Dolim, Bart the Avenger of Evil, and Robert "D Knob" Whiteley. Notice Rob's in both clubs, need I say more?

The "proper" Clique: Carver and the rest of himself. "Such and such!"

The Grease Monkey Clique: Fish, Anders "Yeah, I am a cutthroat!" Johnson, and Steve "Greased frosh races were FUN!" Marshke. Page just won't be the same next year without the Fish-Mobile!

The Mad'M Stud-wanna-be Clique: Todd "huh" McLaughlin, Greg "Dude!" Ducey, and Tigger the Tiger. Yeah, they think they're cute...

The Mad'M Short Oriental Girl Clique: Mad'M, Nancy "don't pronounce it like you're tempted to" Hua, Anthea "Cassette Player?" Howell III, Jennifer Joh, and Keana Kim. Nope, can't say anything about them. It would breach my promise of no lewd sexual allusions! In the immortal words of George Bush, "It wouldn't be prudent at this juncture."

And yet there are still more! There's the NOHO Clique, the Trivial Pursuit Clique headed by Mr. Knowledge, there's the Pursuit of Oriental Women Clique as well as the Stromboli Eating at Tarantino's Clique! There are lots of cliques in Page! So Page and Lloyd should embrace their similarities and break down the walls that separate the two houses (start with the MOSH's office???) Just think of the potential inter-house cliques that could be formed! The Amie Smith Glom Clique, The Alley Soccer Clique, and the Jam Heavy Metal in the Lloyd Courtyard While Playing Basketball Late at Night Clique! The possibilities are simply endless!

Stay tuned to this same column next week when this same witty Page Inside World writer will bring you the striking similarities between Page and Fleming!

-The Avenger of Evil Cut-Throats

MANDARIN CUISINE
AND SEAFOOD

LUNCH SPECIAL

Choice of 13 entrees
11:30 a.m.-3 p.m. from **4²⁵**

EARLY BIRD DINNER SPECIAL

Choose from 13 items
3-7 p.m. DAILY ONLY **5²⁵**

CLASSIC DINNERS

Sunday-Thursday 3-10 p.m.
Friday-Saturday 3-10:30 p.m.

Between Altadena Dr. & Sierra Madre Blvd.

* * Two-Star Award Winner
by the Southern California
Restaurants Association

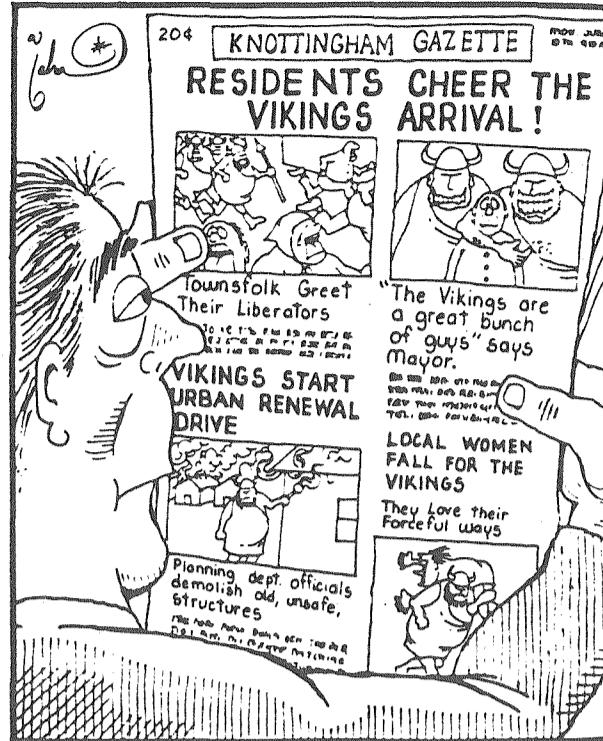
2475 EAST COLORADO BLVD., PASADENA

FOR RESERVATIONS: (818) 449-8018

Open 7 Days • Cocktail Lounge • Food To Go Orders Welcome • Free Parking in Rear

Odyssey 22

© L. Taha 1987



After taking control of the press, the Vikings embark on a public relations drive to improve their image.

Food Committee Notes of the meeting on April 12, 1990

Who was there: GARY, Jen Forman (RU), Emily Wen (LL), Allen Corcoran (PA), Debi Tuttle (RI), and Max Baumere.

Nutrition News: CalTech has hired a nutritionist! She will be planning the menus with Gary and helping students with basic nutrition stuff.

Complaints: Too much fennel in the spaghetti sauce (Gary will cut down). Mushrooms on the hamburger bar are soggy (they are canned). The North Houses run out of trail mix. Waffles are moist and soggy (they can't get crisp because we don't have a toaster, but Gary will try to get one). No more walnuts in the brownies! No more fruit in the Jello. Whipped cream is tasteless.

Requests: Need more chicken nuggets - they always run out BBQ sauce for the hamburger fixings

bar. Fruit Loops and Apple Jacks, and more of a variety of less sugary cereals,

People like Special K Instant ramen rather than ramen packages (coming soon - ask a waiter!) Yoplait for the South houses Real sour cream (Gary assures us that he DOES use real sour cream!) More variety for the fruit salad: strawberries, grapes, watermelon, etc. Mix the fruits together Cube the hiccupum BBQ chicken Green Jello Scalloped potatoes.

Compliments: People like the hamburger fixins. Garlic bread is better - less dry. Prepackaged pudding was good. The sweet and sour pork was pretty tasty.

Changes and New on the Menu: Gourmet pizzas - coming this Friday! Possibly Pop-Tarts??!! Mountain Dew on tap - as soon as the soda guy comes! Whole wheat hamburger rolls for you nutrition-conscious people!

Music Review

By Roy Lee

The tenth album in the Depeche Mode saga, *Violator* represents a stark break from the musical style that was found in the Music for the Masses album, taking a musical view which is more consistent with mainstream pop. There are nine tracks in all, of which two, "Personal Jesus" and "Enjoy the Silence," have been domestically released as singles.

Unlike former Depeche songs, many of the *Violator* tracks contain a relatively heavy drum sound, which adds some validity in terms of real instruments, synthesized though it may be. Also, the synthesized drums add to the hollow, ringing style that is prevalent on *Violator*, creating an atmosphere familiar with Dave Gahan's vocals.

As Depeche Mode fans already know, Mode has abandoned its light and chirpy musical tastes in favor of a more Gothic and gloomy style. Although *Violator* continues in this trend, it fails to achieve the dark austerity of other groups such as Love & Rockets, mainly because Depeche Mode is a complete synthesized band, but also because many tracks lack the energy required to hold a listener for very long.

Although "Personal Jesus" has had nationwide radio time, "Enjoy the Silence" is by far the best track. Its resonant harmonies with both

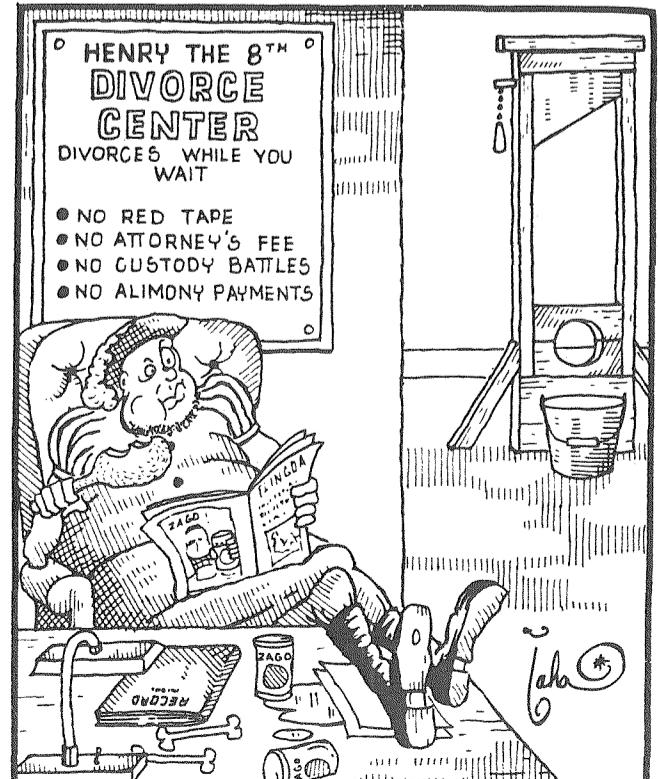
Gahan and Gore hark to the golden years of Depeche Mode. Although diehard Depeche Mode followers may have an absolute need to get this album, the rest of us may find other albums worth buying. ★★

Tech Meeting

Today, 12:15pm
Upstairs in Winnett!

Odyssey

© L. Taha 1989

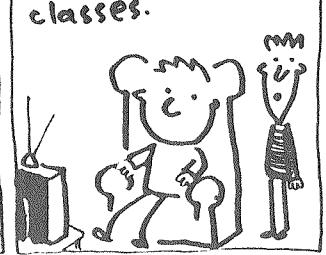


Jim's Journal

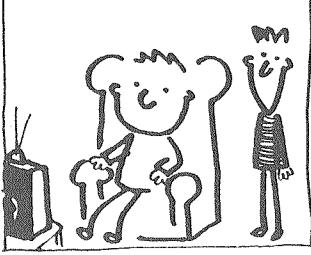
Today I was watching a Perry Mason rerun when Steve came up to me.



He said he's having a pretty good time in school and likes his TV and film classes.



I was caught up in Perry Mason, so I didn't respond to Steve much.

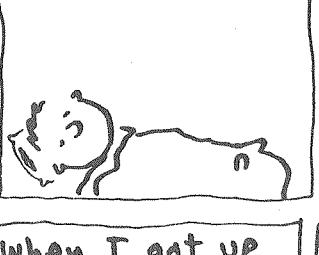


by Jim

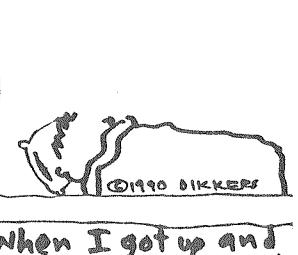
Later in the day I heard Steve telling Tony that he liked school, and was thinking of majoring in TV and film communications.



Today when I got up I was really tired.



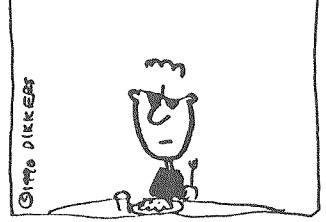
I set my alarm for an hour later and went back to sleep.



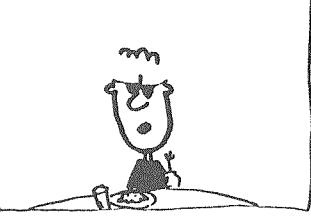
I was in the kitchen washing dishes today while Tony was eating a pot pie.



Once, he looked up like he was deep in thought.



He said, "I've decided something: paper towels are a complete waste."



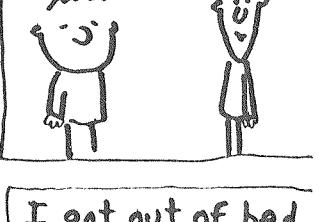
"Why waste money on paper towels when you can wash a real towel as much as you want and use it over and over?" he said.



When I got up again, I was still really tired.



When I got up and saw Steve, he said, "Rise and shine, Jim!" and that mad me feel like going back to sleep again.



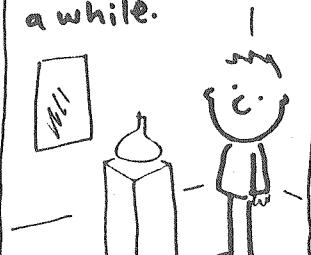
Today I took a walk around town.



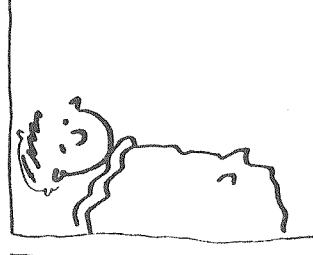
I went to an art gallery and looked at the art.



It was nice to get away from everything for a while.



Today I got up early and was really tired.



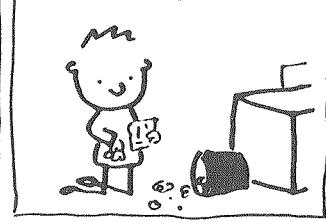
I got out of bed thinking I might be able to wake up.



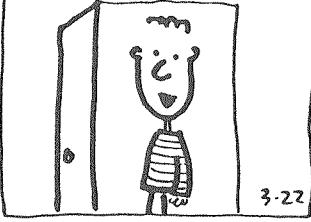
Today I was doing some homework when I noticed I was missing a sheet of notes.



I thought maybe I threw it away by mistake, so I went through my trash can.



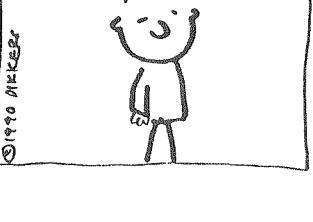
Tony walked by and said, "having trouble making ends meet, Jim?" then laughed.



I uncrumpled every sheet of paper in the trash but I couldn't find the one I needed.



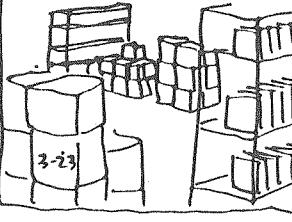
But I was too tired, so I decided to go back to sleep.



But Mr. Peterson was lying on my pillow.



At the bookstore for the past few weeks Jean's had us reorganizing downstairs storage.



Rick and I were supposed to be down there today sorting stuff.

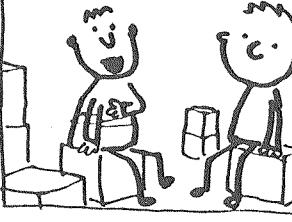


But we hardly did any work, and mostly just talked and joked around.



by Jim

And Jean was too busy running the store upstairs, so she never checked up on us.

**Jim's Journal****Jim's Journal**

by Jim

Sam Custom Tailor
3519 E. COLORADO BLVD.
PASADENA
(818) 793-2582

Hours: 9:00 a.m. - 6:30 p.m.
Special rates for Caltech/JPL community

LAEMMLE THEATRES

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

2 Academy Awards

MY LEFT FOOT

Daily 5:45, 8:00, 10:10 p.m.
Sat-Sun matinees 1:00, 3:30 p.m.

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

Isabelle Adjani
Gerard Depardieu

Camille Claudel

Daily 5:15, 8:30 p.m.
Sat-Sun matinees 2:00 p.m.

SERVING CALTECH SINCE 1945

Authorized Agents for Airlines,
Hotels and Steamships

H.B. BENNETT TRAVEL AGENCY
The Finest in Professional Travel Services
(818) 795-0291
(213) 681-7885
CAMPUS EXTENSION 5091

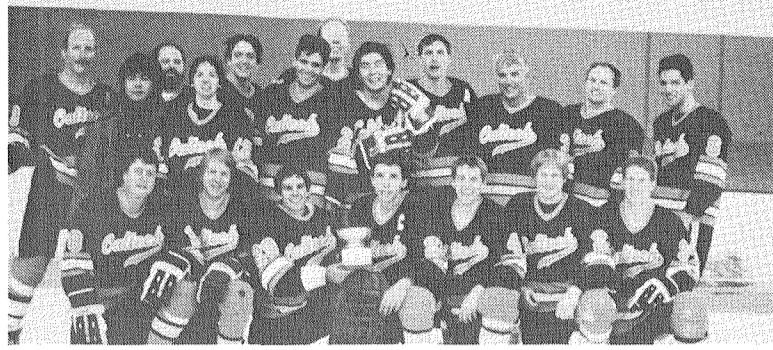
690 E. GREEN ST.
PASADENA
(between El Molino & Oak Knoll)



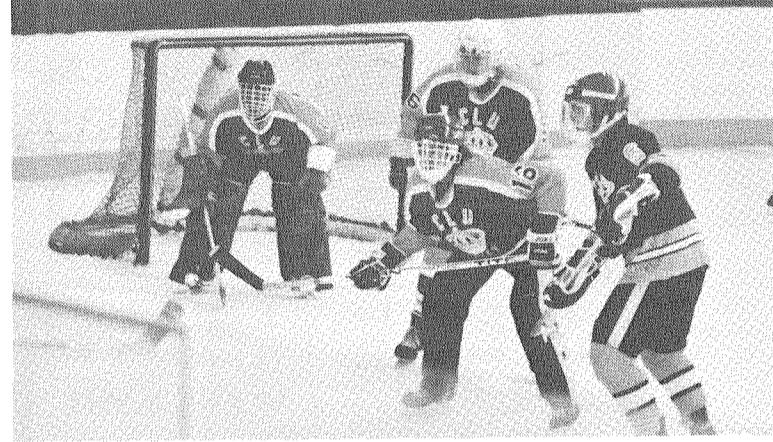
10 April 20, 1990

The California Tech

Hockey Wins Finale



The Beavers hold the Warren Cup after beating Cal Lutheran in the Champion- ship Game, 2-1.



Martin Brouillette (17) prepares to face off against Cal Lutheran while Herman Cho (5) and Dave Braun (3) look on.

by Brooke Anderson

On March 11th, the razor-toothed Beavers of Caltech challenged Cal Lutheran in a game of hockey. Now, I know what you're thinking: these Cal Lutherans are undoubtedly able to call upon the spiritual patronage of Martin Luther, leaving Caltech at a disadvantage. Perhaps, but fear not; I thought long and hard about this deep religious issue and concluded that Caltech also has a patron: Prometheus. This makes even more sense considering that Caltech lost its first 2 games against Cal Lutheran — Prometheus must have been busy having his liver eaten out those 2 days. But by Sunday, he had grown it back and was ready for action.

Cal Lutheran did score first. But the mysterious and shadowy Player X deflected a trans-sonic slapshot by Jacques Belanger to tie the game. Herman Cho also got an assist on the play. Again Cal Lutheran scored, and again Player X, assisted by Herman Cho and Dave Fort, countered. Cal Lutheran scored a third goal; this time, Jeff Moore tied the game. Dale Laird and Jeff Hall got the assists.

Throughout all of this, the goalie Rob Nickells played outstandingly. Some of his saves were so awe inspiring that the Caltech players were entranced and could do nothing more than stand motionless to watch the Cal Lutherans take shot after shot. Nevertheless,

the Cal Lutherans didn't score again by the end of the 2nd period.

Thus, at the start of the 3rd period, the game was tied at 3-3. It stayed that way until, with 8 minutes left in the period, Cal Lutheran scored to go up by 1 point. Roused into a blood-lust by the emotion filled words of Haj "Drill Master" Sano ("Come on guys. Let's win."), the Beavers tried to charge back as they had done before, but failed.

With 3 minutes left in the game, things became desperate. Players and spectators alike could feel the electrified atmosphere and sense the momentous struggle taking place between Martin Luther and Prometheus. Then it happened: with 2 minutes left, assisted by Jeff Moore and Jeff Hall, Dale Laird scored.

Again tied and with only 2 minutes to go, the game became even more frantic. The Cal Lutherans tried everything they could think of to score — and so did the Beavers. Nothing worked. Then, with 38 seconds left, the team felt a powerful and unseen energy wash over it. An instant later, Dale Laird scored on a pass from Jeff Hall.

Caltech now led 5-4, but there were 38 crucial seconds still left to play. Cal Lutheran pulled its goalie to gain a 1 man advantage, and Caltech put its most accomplished skaters on the ice. The atmosphere was tense. Cal Lutheran mounted a charge. Caltech narrowly repelled it. Again, a charge. Again, its narrow defeat. With the seconds slipping away, Cal Lutheran made one last, great effort . . . but to no avail.

Caltech won 5-4.

20% OFF
ALL USED
• CD'S •
• TAPES • LP'S •
with this coupon
GUARANTEED LOWEST PRICES
BUY • SELL
NEW • USED
CASH FOR CD'S TAPES • LP's
MUSIC EXCHANGE
220 South Central Ave.
Glendale • (818) 240-6539
The Bright Yellow Building
1/2 Block North of Colorado
Across from the Glendale Galleria

what goes on

L.A. Philharmonic Tickets

The Caltech Y has a small number of L.A. Philharmonic tickets available for a performance on Friday, April 27th at 8:00 pm. The cost is \$5.

Let The Games Begin

Every Friday night, the Caltech Gamers meet to enjoy role-playing and board games. Friday meetings are in Winnett Clubroom 1 at 8:00 pm. Meet others who share your interests. All welcome! Most common Friday games are fantasy role-playing, but it's a good time to find players to share whatever games you like.

Submit To The Totem

An effort is now underway to produce another issue of the *Totem*, the Caltech literary magazine. In the past, the main barrier to publication has been profound apathy (i.e., submissions have been about a tenth that required). This is a plea for all interested students to submit their art, poetry, and short fiction or, at least, to offer suggestions. Please include your name, campus address, and phone number. Submissions to Ben Schaeffer, 1-59, x6173.

Interested in Sailing?

You too can use the Caltech sailboats. Find out how by joining the Caltech Sailing Club. Contact Axel or Martin at (818) 568-9168. Open to students, faculty and staff.

Back By Popular Demand!!!

It's time once again for the Don Shepard Fun Fund! Come by the Master's office, between April 6 and April 20, to sign up! (If you have received money from the fund this year, please give others a chance by not signing up again.) Who knows... the next winner may be you!!!

Morgan Ward Competition

Any Caltech freshman or sophomore may enter as an individual or as part of a group of two or more students. Each student is entitled to at most three entries, of which at most two may be individual.

An entry is to consist of a mathematical program, together with a solution or significant contribution toward a solution. The problem may have any source, but this source should be stated in the entry. The entries will be judged on the basis of the nature of the problem and originality and elegance of the solution. Any outside references used should be indicated.

Entries must be placed in an envelope and delivered to the Mathematics Office, 253 Sloan, during the fourth week of third term. The names of all participants must be on envelope only, not on the entry. Each winner will receive \$75.

Online Schedule of Classes

The Caltech schedule of classes, as published by the Registrar's office, has been added to the online INFO system, accessible via CITnet. A write-up on using the INFO system is available from the CCO Consulting Office, 162 Jorgensen.

Aircraft Engines

The Caltech/JPL Flying Club will hold their Spring general membership meeting on Thursday, April 26 at 7:30 pm in 201 East Bridge. We will be discussing recent changes in the club's aircraft fleet and holding the all-important election of club officers. The program also includes a talk on "Aircraft Engine Operation" by Bill Groman, A&P. Bill is an A&P instructor at North Valley Occupational Center. In addition to being the 1985 FAA Mechanic of the Year, he is a former USAF C-130 Flight Engineer, a private pilot, and author of a magazine column on aircraft engine maintenance. Bill will be discussing the subtle differences between aircraft and automobile engines, and some of the common misconceptions concerning aircraft engine operation. The Caltech/JPL Flying Club has six airplanes based at El Monte airport. The club also has a number of instructors available for primary or advanced instruction. All club members, prospective members (both pilots and prospective pilots), and others are welcome to attend. For more information call Jim Kaufman (x3807) or Kevin Condroski (x6061).

**STUDENTS -
GET \$4.00 OFF
WITH THIS AD**

Shampoo, Style Cut

MEN Reg. \$20.00 NOW \$16.00
WOMEN Reg. \$25.00 NOW \$21.00

449-6967

1009 E. COLORADO • PASADENA

Offer valid only Monday-Friday, expires June 30, 1990

Ebell of Los Angeles Scholarships

The Ebell of Los Angeles is offering undergraduate scholarships for the 90-91 school year. The amount of the scholarship is \$3,000 per year paid in monthly checks, September through June. In order to apply, students must be U.S. citizens, L.A. county residents, have at least a 3.25 GPA, and be attending an approved college in Los Angeles county. For more specific information on requirements and application materials contact the Financial Aid Office. All applications and materials are due in the Financial Aid Office by 5:00 pm on May 18.

Attention Writers!!!

The Literature Faculty is pleased to announce the 44th Annual McKinney Competition. The Mary A. Earl McKinney Prize is awarded each year for excellence in writing. Only full-time students officially registered at Caltech as undergraduates are eligible to enter the competition. This year three prizes will be given in three categories: poetry, prose fiction, and non-fiction essays. All submissions must be typewritten and double-spaced. In the poetry category, entrants may submit up to three poems. Submissions of prose fiction should not exceed 12,000 words. Essays may be ones prepared for a humanities class or any good piece of original writing on a topic relevant to the humanities. The prize in each category will be \$250.

Each student is entitled to only one entry in each category. All contestants must submit their work to Professor Jenjoy La Belle, Division of the Humanities and Social Sciences, by no later than April 20, 1990. No entries accepted after 5 pm, April 20. No entries will be returned. Each category will be judged by a committee from the Literature Faculty. Essays will be judged on the quality of thought and the effectiveness of the writing. Winners will be announced the last week of May, and the names of the winners will appear in the commencement program. The Committee may divide the award in each category in case of more than one outstanding submission. Previous winners in any one category are not eligible for the competition in that category.

If you have any questions, contact Dr. La Belle, x3606, or Odessa Myles, x3609.

Career Development News

Summer in New York? Barnard College is offering its college housing facilities to students who will be spending the summer in New York City. Summer housing is available from May 31 until August 18, 1990. Stop by the CDC for more information.

The Fulbright Gifted and Talented Program for college and university graduating seniors is intended to insure an opportunity for these younger students to expand their knowledge of the developing world. The program will allow students to pursue an academic year of study or research in the country of their choice, outside of Western Europe. The program is open to all fields of study. The grants will provide roundtrip international travel, a maintenance stipend, medical insurance and tuition waivers, if applicable. The application deadline for 1991-92 is October 31, 1990. Stop by the CDC for more information.

Study and travel abroad this summer!! We have information from over 40 programs in Europe, Asia, South America, Australia, Great Britain, and the Soviet Union.

For more information, please stop by the Career Development Center, 08 Parsons-Gates.

Orville Redenbacher's Second Start Scholarship Program is for students 30 years old or older at the time of application, be enrolled in either an associate, bachelor or graduate degree program at an accredited college or university and can be either full-time or part-time students. Deadline for application is September 1, 1990.

Japanese Government Scholarship for 1990: Applicants must be U.S. citizens between 18-30 years old as of Oct. 1, 1990, third year students specializing in a field concerning Japanese language or culture. Application forms are available at the Consulate General of Japan, (213) 624-8305, attention: Ms. Ildiko Gedeon. Deadline for submitted applications is May 3, 1990.

Automotive Hall of Fame is offering scholarships for the Outstanding Scholars and Hall of Fame Resume Bank programs and a scholarship from the Hall of Fame's Automotive Educational Fund. Deadline for submitting a complete application is May 31, 1990.

SSSSP Tutors Needed!

The Summer Secondary School Science Program will be needing tutors from June 25th through August 9, 1990. The hours are from 9 am to 3:30 pm, Monday through Thursday. Needed are: 4 tutors teaching molecular biology, and 4 teaching chemistry. First preference is seniors, followed by juniors and then sophomores. Applicants may call x6207 or x6208, or visit Lee Browne's office at 107 Winnett Center.

Attention Clubs & Departments

Pre-frosh weekend is coming up soon! Your clubs, organizations, etc., can benefit by putting up a good display at this time. On Sunday, April 22, from 3:00 pm to 7:00 pm, the Admissions Office will be holding a big barbecue picnic on the north athletic field, which will be attended by the pre-frosh, parents, CIT students, faculty, and staff. We hope to have a Club Fair similar to the one held in the fall for enrolling students. Please contact Jeanine Connealy or Milly Pena in the Student Activities Center, x2935, to let us know if you would like for your organization to attend. You should have already received information prior to this announcement. Let's show them all what Caltech has to offer. Your enthusiastic participation in the event could help persuade some very bright and active people to accept our offer of admission. Contact us NOW!

Alpine Club

The Caltech Alpine Club will have its next meeting on Thursday, April 26, at 7:30 pm in 206 Thomas (note new location). Our featured presentation will be "Hiking, Mountainbiking and Climbing in Canyonlands National Park, Utah." We will also discuss trips for the term. All people who love hiking, climbing, skiing, mountaineering, mountain biking, and just being outdoors are welcome. For more information, contact Andy Wells at x4165.

CLAGS Is Back

CLAGS is renewing its activities. CLAGS is open to all of the Caltech/JPL community, and seeks to provide social and educational activities with an emphasis on the gay/lesbian/bisexual community. Upcoming events include a group outing to see the play *Lesbian Vampires of Sodom*. To receive CLAGS newsletters and mailings, write CLAGS, 104-58.

S.P.E.C.T.R.E. Reorganization

There will be a reorganizational meeting for the Caltech Science Fiction Club on Saturday, 21 April at 1:30 pm in Rm. 35 SAC. We will discuss the future of our meetings, activities, etc. Everyone who enjoys science fiction is encouraged to attend. If you've hated S.P.E.C.T.R.E. in the past please come, since you can help reform it into something desirable. Officers (current) are strongly encouraged to be there and state whether they wish to keep their status or relinquish it. For example, the positions of Treasurer and Speaker to Speakers, I believe, will be open. So come and stake your claim... Prefrosh encouraged to come if they can.

Body Surfing Club

Do you like to go to the beach? Do you like to body surf? Would you like to learn how to body surf? If you can answer "yes" to any of these questions then you should be a member of the Caltech Body Surfing Club.

The body surfing club is a new ASCIT sponsored club looking for members. This is how it works: you pay \$4 dues and you are a member for the next 3 terms. As a member you are eligible to participate in any of the club activities. This means you get to go to the beach just about every week. But wait, there's more. Since the club collects dues and is heavily sponsored by ASCIT, it has money. And what does it spend the money on? You, the member. Every club member is provided with up to \$4 for the body surfing club.

So how do you join? By now there should be sign up sheets in all of the undergraduate houses, or call David Ross at 578-9368. All members of the Caltech community are welcome.

Badminton, Anyone?

Badminton is played on Mondays and Fridays in the gym, from 9 am until 11 am. Intermediate players (faculty, staff and students welcome). For information, please call Cherrie Leighton, x4915, Division of Biology.



Sweeney Todd

Hairstyles of Distinction

Special Caltech Student Discount

1818 E. Colorado Blvd., Pasadena, on the corner of Colorado & Allen

(818) 795-5551

Ask for CAROLYN

what goes on

Submit announcements for *What Goes On* forms available outside the Tech office (SAC room 40A) and in the copy/mail room (SAC room 37), or use a plain piece of paper. Send announcements to 40-58, or put them in the IN box outside the Tech office. Indicate the date(s) the announcement must run. Announcements for the current issue *must* be received by 5 pm Tuesday and should be shorter than 75 words. Announcements will be published as space becomes available and will be chosen according to size and interest to the Caltech community. Announcements for commercial events unrelated to Caltech will not be published.

Boffo-Bonecruncher Broomball III

Saturday May 12, 11:00 p.m. to 7:00 a.m. Sign up at the Y, space is limited.

Barbershop Singing

If you enjoy singing harmony, you will love singing with the Barbershoppers. The San Gabriel Chapter of the Society for the Preservation and Encouragement of Barbershop Quartet Singing in America, Inc. meets each Monday at 7:30 pm in the Adult Recreation Center, 324 S. Mission Drive, San Gabriel. For additional information, please call Bob Newton at (818) 446-3424.

Diversity, Round 2

Friday, April 27 from 12 noon to 2 pm in Winnett Lounge, the Caltech Y and the Dean of Students' Office will host another in a series of discussions on Diversity at Caltech. Refreshments will be provided.

Glass Houses

Habitat for Humanity is collecting old eye glasses. 800 pairs of glasses will build a house in a third world country, plus giving vision to 800 people. The glasses are sold over there for about \$2/pair. The \$1600 worth of materials, with the community's free labor, builds a home for a family.

Send glasses or any donations to cover expenses and shipping to: San Gabriel Valley Vision Habitat, c/o Leley A. Hoffelt, 12 S. Fair Oaks Ave., Pasadena, CA 91105.

Fishing For Ideas

The Fishline, a newsletter serving all Christians of the Caltech community, needs material! If you have any ideas, upcoming events, or articles that you would like to share, please submit them (Mac format, if possible) to *The Fishline*, 126-58. Also welcome are announcement by neighborhood churches, Christian groups and clubs, as well as mailing list additions. Contact Mike Nassir (578-9833) for more information.

CLASSIFIED ADS

FOR SALE -

IS IT TRUE you can buy jeeps for \$44 through the U.S. government? Get the facts today! Call (312) 742-1142 ext. 9718-A.

HELP WANTED -

STUDENTS NEEDED IMMEDIATELY for PC consulting. Underclassmen preferred. Possible full-time in summer. Leave résumé in 108 Parsons-Gates, Office of the Vice President for Student Affairs.

SUMMER OBSERVERS—There are several positions open for summer employment at the Big Bear Solar Observatory. The jobs involve solar telescope operation, film processing, electronics work, computer programming, etc. Free housing at Big Bear is provided, and cooking facilities are available. There are recreational facilities (boats, etc.) as well. Some astronomy, physics, computer science, or electronics would be useful. Applications are available in 264 West Bridge, or call x4011. ■ Some programming and data analysis positions on campus may also be available.

HELP! COMPUTER ILLITERATE Pasadena lawyers need computer maven to write and install complicated macro for Quattro and IBM PC AT. Borland says it can be done, but they won't help us. Fee negotiable but will pay for success only. Call (818) 792-6806 days.

HOUSE WANTED -

FURNISHED HOUSE OR CONDO wanted, 12 months from August 1990 (date negotiable), 3 bedrooms. San Marino or South Pasadena. Visiting University of Chicago professor. Call (818) 440-1843 evenings.

RATES . . . \$4.00 for first 30 words; . . . 10¢ for each additional word. Send written ad with payment to 40-58. Deadline is 6 p.m., Monday before issue. No charge for on-campus lost & found.

Laser Light Show

See LASEROQ at Griffith Observatory on Saturday, April 21 at 8:45 pm. The cost is \$6 at the Caltech Y.

It's Renaissance Faire Time!

Revel with Queen Elizabeth I and her Royal Court at the 28th annual Renaissance Pleasure Faire. Join over 1000 costumed performers and help bring a medieval village to life as the cries of Eat, Drynke and be Merrie echo throughout over 30 acres of tree-lined lakes and meadows. Held at Glen Helen Park in San Bernardino, the Faire will be open weekends and Memorial Day, from April 21 to June 10. Tickets are \$10.50 (regularly \$14.50) at the Caltech Y.

Off-Campus Folkdancing

Join the Pasadena Folkdance Co-op every Friday evening at 7:30 pm at Throop Unitarian Church in Pasadena at the corner of Del Mar and Los Robles. The club offers beginning instruction at 7:45 pm and intermediate at 8:30 pm. Each month the community is invited to participate in line, set and couple dances from all over the world. A \$2.00 contribution is requested of non-members.

Free Food Money??

The Caltech Y along with the Caltech Service League have allocated monies (lots of) to encourage student/faculty interaction. Specifically, students can receive \$25 to defray the cost of a lunch, dinner or some cultural event with a faculty member. All events must be *pre-approved* through Brian Redin at the Caltech Y.

Life On Other Worlds

Dr. Albert Hibbs, retired senior staff scientist at JPL, will present a talk on "Life on Other Worlds" in a program by the Southern California Skeptics in Beckman Auditorium. The talk will be at 8 pm on Thursday, April 26. General admission: \$8.00. For more information, call (213) 283-9773.

Grads—Apply For Housing!

Graduate student housing applications for 1990-91 are now available. If you need an application form, pick one up at the Housing Office. Deadline to apply is May 1, 1990. A lottery will be scheduled to allocate the available rooms.

Greenhouse Critique

Professor Mordechai Magaritz, a professor of chemistry and visiting professor of geology from the Weizmann Institute of Israel, will be speaking on "The Greenhouse Effect: A Critical Look." The talk is part of the Science, Ethics and Public Policy series. Bring your brown bag lunch to the Judy Library, Baxter Hall, on April 25th at 12 noon.

Earth Day!

Caltech Earth Day Exhibit: Friday, April 20th, 11 am to 3 pm near the bookstore. See it again on Saturday at the Arroyo! Sponsored by the Caltech Environmental Task Force.

Earth Day Festival

Education, entertainment, food and fun throughout the Arroyo Seco. Saturday, April 21, 1990, 9 am to 5 pm. Bike or take the free Caltech shuttle there. Shuttle leaves and returns at 9, 1 and 4 from Holliston and Del Mar. If you drive, carpool. Park and shuttle services available at Parsons lot, corner of Walnut and Fair Oaks. At the festival, hike, bike or use the shuttle system. Special events: Bike race, 8 am, Rose Bowl; TREES seminar, 9 am, La Casita del Arroyo cottage; Campaign Earth, 10 am & 2 pm Brookside Park; Mini-conference on the global environment featuring Caltech & JPL faculty and personnel. Entertainment throughout the day.

LOWEST AIR FARES

Atlanta	\$258.00 RT
Chicago	\$258.00 RT
New York	\$298.00 RT
Phoenix	\$ 38.00 RT



Bangkok	\$796.00 RT
Bangladesh	\$1046.00 RT
India	\$1165.00 RT
London	\$488.00 RT
Paris	\$668.00 RT
Tokyo	\$560.00 RT

More lowest fares are available. Prices are subject to change.

Call (818) 794-0210

FREE WORLD TRAVEL

Attention Clubs & Departments

Pre-frosh weekend is coming up soon! Your clubs, organizations, etc., can benefit by putting up a good display at this time. On Sunday, April 22, from 3:00 pm to 7:00 pm, the Admissions Office will be holding a big barbecue picnic on the north athletic field, which will be attended by the pre-frosh, parents, CIT students, faculty, and staff. We hope to have a Club Fair similar to the one held in the fall for enrolling students. Please contact Jeanine Connealy or Milly Pena in the Student Activities Center, x2935, to let us know if you would like for your organization to attend. You should have already received information prior to this announcement. Let's show them all what Caltech has to offer. Your enthusiastic participation in the event could help persuade some very bright and active people to accept our offer of admission. Contact us NOW!

SSSSP Counselor Applications

Applications are now available in the Master's Office for undergraduate students who are interested in being a Summer Counselor for the Summer High School Program. The remuneration for the position is a free room for the summer program period, from June 24 to August 10, 1990. The deadline for students to submit applications to the Master's Office is April 23rd.

1990 Camp U.C.C.s

The Deans are interested in hearing from you if you would like to attend New Student Orientation as a U.C.C., and have not already been chosen by your House. Camp is scheduled for Wednesday, Sept. 26 through Friday, Sept. 28. Submit a brief written description of your unique qualifications (campus activities, and why you want to go) to the Deans' Office (102 Parsons-Gates) by Monday, April 23rd. We hope, with your help, to add to the diversity of the Camp experience for the new students.

Earth Day

Join Senator Alan Cranston, Sergei Begov (Institute of International Systems Analysis, Moscow) and a host of other distinguished persons for "Campaign Earth." This free outdoor mini-conference on global environment takes place this Saturday, April 21 from 10:00 am to 4:00 pm in the Band Shell at Brookside Park at the Arroyo Seco Earth Festival. Caltech students can take a shuttle bus from the corner of San Pasqual and Holliston at 9:15 or 1:15 and arrive back at either 1:00 pm or 4:00 pm.

"Imaginism"

Prepare now for a most unforgettable evening of standup comedy, a humorous slide show, magic tricks and "Imaginism," a heightened state of awareness where volunteers (that's you) participate in a delightful blend of fantasy and the power of suggestion. Monday, May 21, 1990 from 8:00-10:00 pm in Ramo. Tom Deluca will do to Caltech what has never been done before—BE THERE! IT'S FREE!!

Coffeehouse Prefrosh Hours

For this Saturday only (4-21-90), the Coffeehouse will be open from 12:00 noon until 7:00 p.m. to accommodate the arriving Pre-frosh.

ACADEMY BARBER SHOP

27 N. Catalina Ave., Pasadena
Open Tues.-Sat., 8 A.M.-5 P.M.
449-1681



86 W. Colorado Blvd.
Old Town Pasadena
(818) 792-2435

Pre-Frosh weekend is here!

For those clubs and organizations that have not responded yet, it is still not too late. Please contact Jeanine Connealy x2935 to reserve a table for your group now. The club fair will be held on Sunday, April 22, at 3 p.m. on the Athletic field. For further information give us a call!

Ballroom Dancing

A new beginning ballroom dancing class, sponsored by the Caltech Y, will start Tuesday April 23 in Winnett. Classes will be for the next seven Tuesdays from 4 to 5. Sign up in the Y: \$20 for students, \$30 for faculty and others.

Plant And Bake Sale

The Caltech Service League Plant and Bake Sale will take place on Friday, April 27th from 8 am to 1 pm at the Winnett Patio. Join the Caltech family at this sale of plants and home-baked goodies. There will also be a raffle of unique plants and specialty baked goods donated by local merchants.

Take your break with us at the Coffee Bar. Profits from this benefit are used to enhance the happiness and welfare of all Caltech students.

Attention Pre-Med Students

Information meeting on Monday, April 23rd at 5:00 pm at the Health Center. If you cannot attend, call to schedule a meeting with Dr. Marlene Coleman, Pre-Med advisor.

UA Movie Tickets

The Caltech Y now has United Artist movie passes for \$4 each.

Guitar Classes at Caltech

Guitar classes for spring quarter meet on Tuesdays, and started April 10 in Rm. 1 of the Student Activities Center as follows:

Beginning guitar, 4:30-5:30 pm

Intermediate guitar, 3:30-4:30 pm

Advanced guitar, 5:30-6:30 pm

Classical and flamenco repertoires are explored but techniques transfer to other styles of guitar. The beginning class includes a jazz/folk chord system. Classes are free to Caltech students and other members of the Caltech community (space permitting). Undergraduates can receive 3 units of credit if they choose. Private instruction on any level can also be arranged. The instructor, classical guitarist Darryl Denning, has an international background in performance, recording and teaching and can be reached at (213) 465-0881.

Don Shepard Essay Contest

The Don Shepard Essay Award contest is open to all freshmen, sophomores, and juniors. Three \$500 prizes will be awarded.

To qualify for one of the prizes you must submit an essay (around 500 words types, or neatly and legibly written, describing a program for your social and cultural enrichment, whether it by pursuing a new hobby, taking lessons, traveling or sightseeing.

The contest will run until May 14, 1990 and you may bring your essay to the Master's Office until that time. Winners will be announced the week of May 14.

Rag Time on Green

RESALE CLOTHING for WOMEN

1136 E. Green St. • Pasadena

(818) 796-9924

Wed 10-6 • Mon-Tue-Thu-Fri 10-5 • Sat 10-3



PARIAN TRAVEL

Caltech Officially Approved

Most professional, courteous, economical and efficient service for your official and personal travel needs.

Free service to you.

Airlines, Cruises, Tours, Hotels, Car Rentals.
Individual, Commercial, Groups.

(818) 577-8200

468 S. Sierra Madre Boulevard, Pasadena

HAPPY HOUR at the dentist?



See Dr. Richard S. Phillips, D.D.S.
1302 North Altadena Drive
Pasadena • 797-6778

New Patient HAPPY HOUR SPECIAL (Tues. & Thurs., 2-6 p.m.)
Cleaning/Exam \$18.00 (reg. \$70.00)

expires June 1990

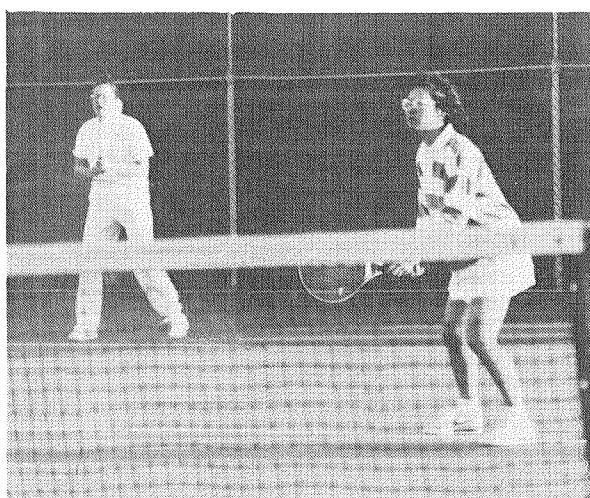
money

Scholarship Listings

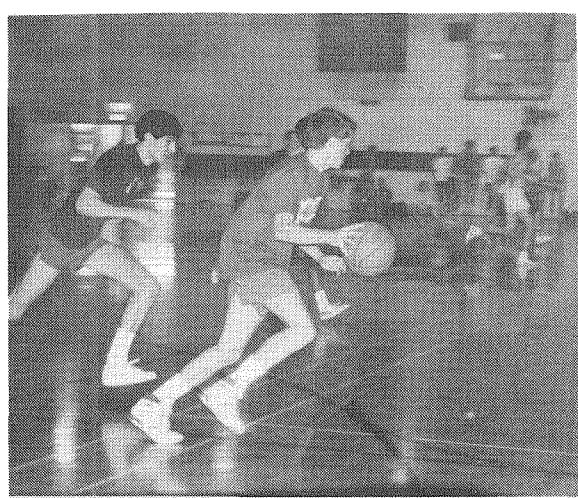
The Financial Aid Office has applications and/or information on the following scholarships. All qualified students are encouraged to apply. The office is located at 515 S. Wilson, 2nd floor, phone x6280.

California Council of the Blind is offering a number of awards to applicants who will enter or continue studies at an accredited college or university in either undergraduate or graduate status. Awards will be granted on the basis of academic scholarship and other factors including financial need. Deadline for application, transcripts and records is June 1, 1990.

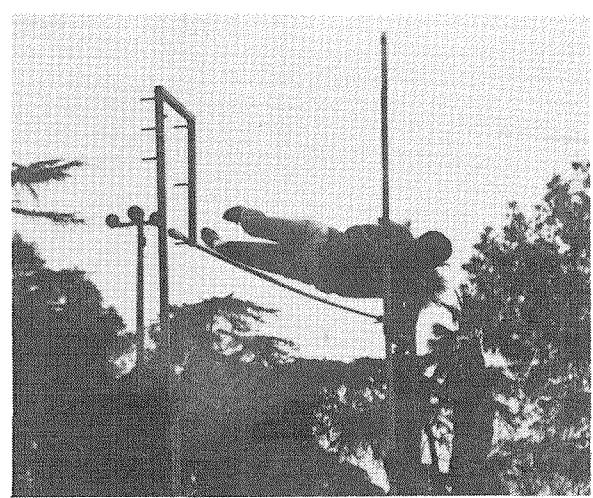
The American Petroleum Institute will grant scholarships to students with permanent residency in Kern County. Several criteria used are schol



Tennis



Basketball

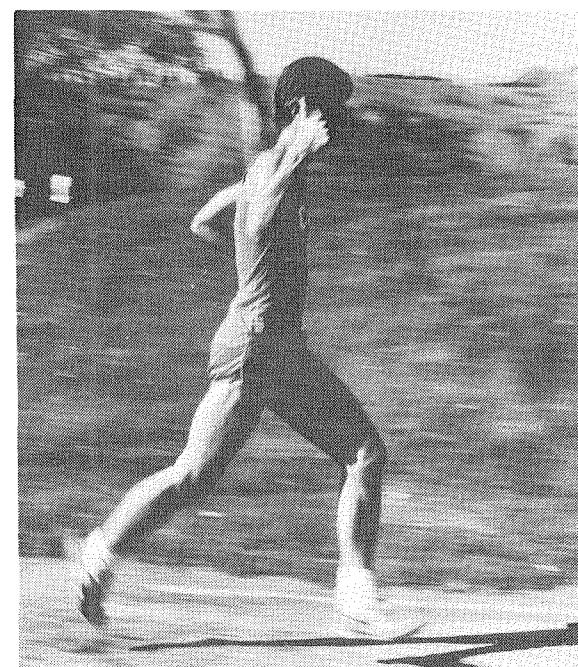


Track



Soccer

SPORTS AT TECH



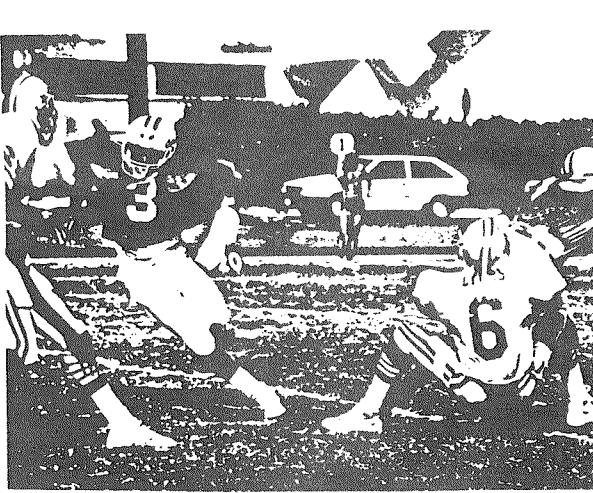
Cross Country



Volleyball



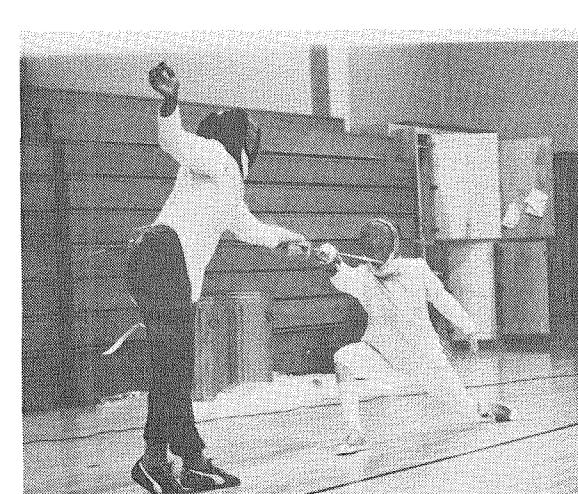
Ice Hockey



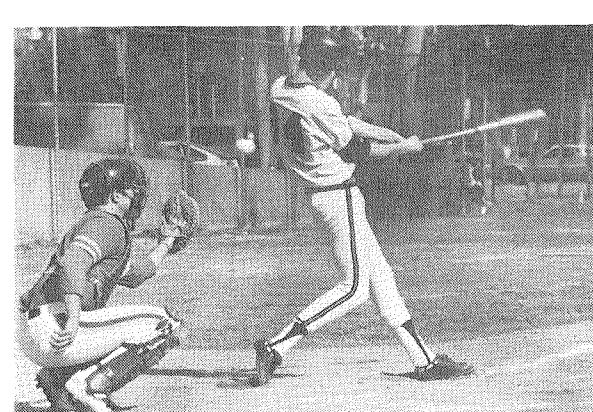
Football



Swimming



Fencing



Baseball

WEEKLY SPORTS RESULTS

Day
Sat.Date
4-14Sport
BaseballOpponent
Barstow CollegeResults
4-7, 6-8

THE CALIFORNIA TECH
40-58 SAC CALTECH
Pasadena, California 91125

WEEKLY SPORTS CALENDAR

Day	Date	Time	Sport	Opponent	Location
Fri.	4-20	3:00 pm	Baseball	Pac. Coast Baptist Bible College	P.C.B.B.C.
Sat.	4-21	10:00 am	Tennis (W)	Claremont-Mudd-Scripps	C.M.S.
Sat.	4-21	11:00 am	Baseball (2)	Cal Lutheran	Cal Lutheran
Sat.	4-21	11:00 am	Track	La Verne, Pom-Pitz, Redlands	Caltech
Sat.	4-21	2:00 pm	Tennis (M)	Pomona-Pitzer	Pomona-Pitzer
Mon.	4-23	1:00 pm	Golf	Redlands	Occidental
Tue.	4-24	3:00 pm	Tennis (M)	Whittier	Caltech
Wed.	4-25	3:00 pm	Tennis (W)	Whittier	Caltech
Fri.	4-27	1:00 pm	Track	SCIAC Championship	Redlands
Fri.	4-27	3:00 pm	Baseball	Occidental	Occidental
Sat.	4-28	10:00 am	Tennis (W)	La Verne	La Verne
Sat.	4-28	11:00 am	Baseball (2)	Occidental	Caltech
Sat.	4-28	1:00 pm	Track	SCIAC Championship	Redlands
Sat.	4-28	2:00 pm	Tennis (M)	La Verne	La Verne