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 Secco Earth Festival. From 9 a.m. to 5 p.m., there will be a variety of exhibits on the environment at Arroyo Secco. 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 and Waste to Recycling to Transportation to Native Americans.

Also at the Arroyo Secco Festival will be the Campaign Earth, co-sponsored by the Caltech, the Sierra Club, and the United Nations Association. From 10:00 A.M. to 12:00 noon, and from 2:00 P.M. to 4:00 P.M. at 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 computer-sourcing groups and the local media, and elected officials—including U.S. Senator Alan Cranston, and Sergei Bager, of the Institute of International Systems Analysis in Moscow.

The Conference will cover such topics as global warming, urban sprawl, pollution, and how to help third world countries get technology to reduce CFC production and emissions, hazardous waste disposal, and much more.

There will be a free shuttle to the events from the corner of Hol-House and Pasqual behind the Housing Office. Departures to Arroyo Secco will be at 9:15 A.M. and 1:15 P.M. Return trips to campus will depart Arroyo Secco at 1:00 and 4:00 P.M. Admission to the Arroyo Secco 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 recycling which may soon be standard in the average Caltech student recycling. less than one-third as much as the average household in Pasadena does. More information is available from Andy Crews (s4165). Also, aluminum, newspapers, glass, and tetra-foil board 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.

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 and 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 spin 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 their 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.

Detriment 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 advancement. Tai finds in recent books facts that he knows to be untrue. He enjoys that and all of his big little discoveries.

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 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 Toun- parkment 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 brother 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 Hol- liston 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.
Save Natural Resources

An Open Letter to the California Institute of Technology President 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 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 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 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 chemical fertilizer.
- All members of the Institute will be discouraged to buy, sell, or waste 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 of the urgency of conservation and reduction of waste. The Institute will work to eliminate the wasteful use of 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 any and all efforts to utilize recycled paper in order to decrease the depletion of natural resources.

The Institute will strongly encourage its members to conserve more efficiently by having more employees involved in recycling effort.

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.


(Director: GSC Environmental Committee (Illegible))

Caltech Conservation Efforts:

To: The Caltech Community

We should all applaud the efforts of the Caltech Environmental Task Force for striving to raise campus consciousness about issues that are critical to both our local and global survival, and of our planet's biosphere. Their letter which reached me earlier this week has stimulated this communication to you, especially in light of this weekend's Earth Day Festivities.

Protecting the environment requires long-term, cooperative, and collective efforts. It also requires educating people about the ecological impact of their individual actions. As a longtime advocate of recycling, being in your home, I am pleased to enumerate some aspects of Caltech's efforts in the conservation of valuable natural resources.

When it comes to large-scale efforts, Caltech has made great strides this past year in campus-wide energy conservation, water utilization, and waste reduction. For more detail, please refer to next week's editions. 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. This co-generation units are now operating and continued on page 3.


**The California Tech Conservation from page 2**

producing an equivalent amount of electricity, while reducing the fuel usage by roughly one-half. Coates and his team developed the SoCal 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, like expansion of the Caltech faculty. Our efforts at the Institute were indispensable in helping us implement this program, which has produced National Science Foundation and grant awards from federal agencies.

The Institute also stands as a model in other conservation programs around the world. Perspectives over the past few years the new cooling towers in Caltech's Central Plant have saved 9,000 kilowatt-hours per day, and we are saving a ton...lighting the plant's total 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 $900,000 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 seen the installation of low NOx burners, a flue gas recirculation system, and the replacement of old 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 has been previously rejected as waste in the preparation of the University's drinking water. This system recycles 490 gallons of water an hour; more than 4,900 gallons per hour of re-water-waste, automatic-flush toilet, and other caltech's 60 plus buildings, and the gradual retrofitting of these systems to reuse water from campus water systems tends to result from damaged or partly abandoned water users. Upgrading this system has allowed scientists who are looking at ways to apply this technology to correct this situation, such as researchers at the Institute are also addressing this concern through the efforts of a 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-water-waste-waste-water-waste-waste-air-articulate to air the earth's precious resources. At the same time, we are proud of Caltech's long-term institutional commitment to the environmental realities of our day. This memo should be viewed as a continued dialogue. We began two decades ago at Caltech on Earth Day. We hope this dialogue will produce even more environmental enhancements and we will be able to do it 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, and water. We are faced with the same problems, we need to optimize our systems and find a way to do it in a manner, so we can do the best job scientifically, while using the minimum amount of resources.

—Thomas E. Everhart
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WRITE FOR THE TECH

Jim's Journal

Today at the bookstore I worked the cash register.

Paul was sweeping the floor.

As he passed me he said with a big smile, "This place is gonna be sparc-ly clean when thethrough with it."

And for some reason I thought it was really funny, and thought about how funny it was for a long time after he left.

In the bookstore today Laura came in.

She was surprised and said, "I didn't know you worked here."

She was buying a book by someone named Chinua Achebe and said, "This one of my favorites."

We talked for a while until there were other customers waiting in line behind her, then she left.

Today I was sitting around petting Mr. Peterson.

I scratched up and down her back, and she purred like crazy then fell asleep on my lap.

I left her up and set her down on the chair, and she stayed in the exact same position she was in on my lap.

I ran into Laura today on campus. She was in my philosophy class last semester.

She asked me if I'd been thinking much about Imanuel Kant since our class.

She was really knowledgeable and quick-witted and every time I said something, I felt a little dumb.

But she didn't seem to mind, and was nice and talkative.

After a few minutes, the phone rang, so I had to get up and answer it.

I got the washing machine started and went back to my room and read some of my text book.

When I came back, the clothes were all covered with spa-sy, even though the machine was done.

I figured that machine was broken, so I washed my clothes in a different one and they came out fine.

I did a load of laundry today.

I saw Steve rent a Bobcat and we all watched it.

It was pretty good.

Afterwards, I made myself a tuna sandwich.

Mr. Peterson kept jumping up on the counter even though I kept telling him back on the floor.

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This Week's Event was written by:
Blacker: Walter Asmann and Naomi Bernstein
Dabney2: Robert Hanna
Lloyd: Curt Hagenlocher and Dave Jeitner
Page: Michael Simpson
Ricketts: Joe Dadke

Ricketts
Peeved. Peeved I am at the incredible lamentness of this sorry word processor BuntStar, which are the brillianst 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 Froosh. After the rash of door-plate flipping reported here last week, the Snatch Froosh delaried 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 blanket zone within a half day. However, a U.N. peacekeeping force, George is utterly futile. A challenge to commend the Rocky Horror faction of the house and as the largest nose since Samer graduated last year. It's just that Wertzel is a dud. Curt Hagenlocher and Dave Jeitner have to stop soon. But if you have a chance when she played the Ride on his stereo. Leah, Joan, Amy, and Mase have been had by all. Entertainment was provided by Drew and the woman in the corner.

Research after Easter dinner revealed that playing Picross with only a few minor dents in the lounge walls. Given that his sense of time is distorted by this condition, I would guess that it has been nearly a week. However, there is a suspicion of what that occasion of the occasional early morning music from the speakers of a supersymmetric Camero. Also on Easter, the Toast Bunny visited everyone in the house. None of the delegates were able to attend. . . .

Finally, Russ is showing the classic symptoms of sexual abuse. Also, they caused the absence of most of the women in the house, 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 AMFA, originally from the class of '86, who returned from a lengthy leave between his sophomores and junior years to graduate with the class of '90. Scooter is well-known as one of the most obnoxious people in Rick 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 today, but spewed and accidentally imbued both bridge tables. A little pepper was sufficient to recovering with only a few minor dents in the lounge walls.

Who's Doing Whom: DWeaver is involved with some- one 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, Joan, Kirsten, and Maps have been seen together a lot. Just say no to Buff Polish.

The Physics Messiah

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 0 3
Page 15 18 0 1 4 5
Ruddock 33 12 0 0 0 0
Ricketts 23 25 3 2 2 7

Dabney1

It's enough! Even if Dave "Suck My Dick" Edwards wimped out and quit writing the Inside World, Dabney gossipies have been under a virtual state of siege. Without Dave, there was no one to even the slightest suggestion of what that occasion of early morning music from the speakers of a supersymmetric Camero.

Also on Easter, the Toast Bunny visited everyone in the house and several people off-campus. DanUp discovered a mysterious egg in his cabinet which he identified as being one to some type of lizard. Other house members found foul-wrapped malted milk eggs in various places, some of which are 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 Pump-Up-Real Men dinner. Joining the men in pumped-upmode were Aliya, Helen, and Andrea. With the sweet young things who restrrain our normal activities were, 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.

Juror Profile: Scott Richmond, aka Scooter, aka N. Balls. Scooter is an AMFA, originally from the class of '86, who returned from a lengthy leave between his sophomores and junior years to graduate with the class of '90. Scooter is well-known as one of the most obnoxious people in Rick and as the largest nose since Samer graduated last year.

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The Physics Messiah

TUESDAY, APRIL 20, 1990

Dabney2

Hey everybody, what's shaking? Due to popular demand, or so I'm told, I am writing in the inside world this week. But let's preface my comments with some disadvantages. This article is written more, no soget written. Also, I cannot be held responsible for the accuracy of the accounts detailed here. And I probably can't abide by the terms of this constitution to the best of my abilities.

After an uneventful bus ride, Dexter is accosted by a man dressed completely in the new fashion statement that Diana doesn't quite see as But. Who's to say what's proper? After all these days people don't take the time to figure out where his seat was. But all was saved in the nick of time by adhering to that great Caltech motto: Aw Fuck Us. The subsequent plan to confuse the messy frosh by setting half the tables against you. A Wise...
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 dad, a man especially to the point of rudeness 3. terse or brusque

"Woodsman, lives are transient. No, you a science and engineering major, or a liberal arts major?" she asks.

"I'm mapping in anything yet. I'm 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. "That'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 House are the crumbled remains of the Housing Office.

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

"There is it," 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?"

"Here 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!"

"This is my gerbil!" UASHor disappears in a burst of flames, leaving behind a small gerbil.

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

"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 broken pottery is a human figure, sprawled comfortably across a fence, with straw for hair, and mud for clothes.

"Drat," says Suzette, "this is all fine, but how do I get home?"

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"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."

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Barefooted! These guys and gals call themselves Scurves and seem to be quite adept at climbing things. Page is actually quite adept at house breaking, which is more consistent with their love of dorm social cliques. This house also has lots of money to play with and like to play rugby and tennis in their spare time.

Ruddock: Much like Lloyd except devoid of alley rugby and tennis. They match Page in their hair color and other things they do to annoy the silly things. Known for a peculiar tolerance of drunk fresh-page Boys making lots of noise and wearing beer cartons on their heads on Wednesday nights.

Binning: A very athletic-minded house. I was going to write something about the thunder-bend, but it slips my mind at the moment. Also known for hating the other boys. I will mention that there is one fellow amongst the throng who is best known for his 112 kill kills and the conversion of the library into the beer room!

The Wayor Cluque: Fred (too bad he's gone...), Hardus, Schmack, Big Dave, Bundle, and Bart. They have a milder and more sociable, and know the difference between MOO and nitrous. They have some wild stories about things they've been up to.

Bird Dinner Special
Food To Go Orders Welcome

Keana

Growing up in a small fishing town by the sea... and a maybe-prince, riding to the rescue of some mother has gone quietly mad with grief and hope. And then a hand-some prince walks into Peri's life, quite by accident. Not a fairy-tale prince, riding to the rescue of some fairy-tale woman, but more of a troubled hero, with a deeper longing for the sea and what he wishes he had represented.

Gahan and Gore have the most interesting story of all. Gahan was a boy in a small fishing town by the sea... and a maybe-prince, riding to the rescue of some mother has gone quietly mad with grief and hope. And then a handsome prince walks into Peri's life, quite by accident. Not a fairy-tale prince, riding to the rescue of some fairy-tale woman, but more of a troubled hero, with a deeper longing for the sea and what he wishes he had represented.

Music Review

By Roy Lee

The tenth album in the Depeche Mode saga, Representations, is another stark break from the musical style that was found in the Music for the Masochist album, taking a "clean" view which is more consistent with mainstream pop. There are more 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 a new validity in the use of real instruments, synthesized though it may be. Also, the synthesized drum sound is furthering a following style that is prevalent on Violator, creating an atmosphere of cold, empty space.

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 darkening and gothic atmosphere that 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 considerable radio play, the song "Enjoy the Silence" is by far the best track. Its resonant harmonies with both
**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.

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

**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.**

**Today I took a walk around town.**

I went to an art gallery and bought everything for a while.

It was nice to get away from the noise.

**Today I was doing some homework when I realized 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 and found the one I needed.

**When I got up early and was really tired.**

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

**Today I was doing some homework when I realized 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 and found 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 Jeanie 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.

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

---

**Jim’s Journal**

**Today when I got up I was really tired.**

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

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

**Today I got up early and was really tired.**

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

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

But Mr. Peterson was lying on my pillow.

---

**LAEMMLE THEATRES**

**ESQUIRE**
2670 E. Colorado Blvd.
(818) 793-6049
2 Academy Awards

Isabelle Adjani
Gerard Depardieu

**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) 796-9904

Camille Claudel

Daily 5:15, 8:30 p.m.
Sat-Sun matinees 1:00, 3:30 p.m.
The Caltech Y has a small number of scholarships for the fall 1990-91 school year. The amount of the scholarship is $2,100 per year paid in monthly checks from September through June. In order to apply, you must be a U.S. citizen or permanent resident. A social security number or an Alien Registration number is required. For more specific information on requirements and applications contact the Financial Aid Office. All applications and necessary documents should be mailed to the Financial Aid Office by May 15.

Attention Writers!!

The Literature Faculty is pleased to announce the fourth annual Ebell of Los Angeles Literary Award. The Mary A. Hill McKenna Prize is awarded each year for excellence in writing. Only full-time students officially registered at Caltech may be eligible to enter the competition. This year entries may be in any categories: poetry, prose, fiction, and non-fiction essay. All submissions must be typewritten and double-spaced. In the poetry category, entries must be no more than 30 lines. Winners and runners up will be awarded in each of the four categories. Previous winners in any one category are not eligible for competition in that category.

Each student is entitled to one entry in each category. All entries must be submitted to the Registrar’s Office, Winnett Hall, by the end of the 2nd week in May (Thursday, April 26). Each entry should contain the writer’s name, school address, and a brief statement of why he/she believes the entry is the best. Entries must be postmarked by May 31.

Winners will be announced the last week of May, and the winners will be notified in writing.

For more information, contact Dr. La Bella, 3426, or Olleides Myln, 203.

Career Development News

The California Institute of Technology is offering its college housing facilities to Japan Aerospace Exploration Agency (JAXA) students who will be attending classes at New York City. Summer housing is available for male and female students from mid-July to mid-August. Contact the CDC for more information.

The California Institute of Technology will also have a booth at the Annual Career Development Conference for graduate and undergraduate students who are interested in developing an opportunity to study in the United States. The conference will be held in mid-May at a college near your home. If you happen to be interested in C.I.T., you should contact the CDC for more information.

The Career Development Center, 08 Monterey, is holding information sessions to discuss opportunities in Japan. The next one is on Friday, May 18, 1990. For more information, contact Andry Walls at 416.

The California Tech Hockey Wins Finale

The Caltech hockey team defeated the University of Southern California 5-4 last Saturday night. The game was held in 201 East Biology. The first goal was scored by the Beavers, and was followed by a Reply score by USC, bringing the score to 1-1. At the 10:30 mark of the first, the Beavers scored again, bringing the score to 2-1. USc continued to threaten, but failed to score.

The Beavers held the Warren Cup after beating Cal Lutheran in the Championship Game, 2-1.

L.A. Philharmonic Tickets

The Caltech Y has a small number of tickets to the L.A. Philharmonic’s spring performance on Friday, April 27th at 8:00 pm. The orchestra will present the works of Schubert, Schumann, and Brahms, as well as a world premiere. Tickets are available from the box office or from your nearest bank of America.

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Submit announcements for What Goes On form available outside the Tech office. Deadline: Tuesday at 2 p.m. in the copy/room (SAC room 37), or use a plain piece of paper. Send announcements to 884-85 or put them in the IN box outside the copy/room. A copy of the announcement must run. Announcement eligibility: current event must issue be received by 1 p.m. Tuesday and should be typed or handwritten clearly. Announcements will be published at space becomes available. Announcements are made in accordance to size and interest to the community. Announcements not unrelated to Caltech will not be published.

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

Barbershop Singing
At Caltech student barbershop, you will love singing with the Barbershoppers. The Sun Singers, one of the oldest barbershop groups in the country, are the Preservation and Encouragement of Barbershop Quartet Singing in America. Inc. meet every Monday at 7:30 p.m. in the Adult Recre- tion Center, 314 M Sz Mission Dr, Pasadena. For additional information, please call 797-6424.

Diversity, Round 2
Friday, April 27 from 12 noon to 3 p.m.
In the Caltech Y lounge, the Campus Diversity Association will host another in a series of discussions on Diversity at Caltech. Please plan to attend.

Glass Houses
Glass making as a craft and as an art is being added to the offerings of the Caltech Y. New classes are going to allow students to create their own glass projects to be picked up at the end of class or taken home. Glass courses are available at the Caltech Y in spring and fall quarters. For more information on class offerings, please call (818) 796-9778.

Fishing For Ideas
Are you or someone you know a professional serving all Christians of the Caltech community, needs material on various ideas, stories, articles, or events that you would like to share? Christians of the Caltech community needs material! If you have any ideas, upcoming events, or articles that you would like to share with the community, please call (818) 796-5833. Also welcome to the Caltech community are churches in the neighborhood, Christian groups, and as clubs at the Institute. Remember to contact the Student Activities Office with any questions.

CLASSIFIED ADS

for SALE—
If IT TRUE you can buy pens for $44 through the U.S. Government! Get the facts today! Call (213) 742-1162 ext. 9718.

HELP WANTED—
HELP WANTED IMMEDIATELY FOR PC consulting. Undergraduate preferred. Possible full-time in summer. Lease return in 108 Persons-Gates Office, for the Vice President for Student Affairs.

SUMMER OBSERVERS—There are several positions available for students to work for the Big Bear Solar Observatory. The jobs involve solar telescope operation, film processing, electronics, work on computer programming, etc. Free housing at Big Bear is available. For more information, please contact the office of the Student Activities Office with any questions.

what goes on
SPORTS AT TECH

WEEKLY SPORTS CALENDAR

<table>
<thead>
<tr>
<th>Day</th>
<th>Date</th>
<th>Time</th>
<th>Sport</th>
<th>Opponent</th>
<th>Location</th>
</tr>
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<tbody>
<tr>
<td>Fri</td>
<td>4-20</td>
<td>1:00 pm</td>
<td>Baseball</td>
<td>Pac. Coast Baptist Bible College</td>
<td>P.C.B.B.C.</td>
</tr>
<tr>
<td>Sat</td>
<td>4-21</td>
<td>10:00 am</td>
<td>Tennis (W)</td>
<td>Claremont-Mudd-Scripps</td>
<td>CMS</td>
</tr>
<tr>
<td>Sat</td>
<td>4-21</td>
<td>11:00 am</td>
<td>Baseball (2)</td>
<td>Cal Lutheran</td>
<td>Cal Lutheran</td>
</tr>
<tr>
<td>Sat</td>
<td>4-21</td>
<td>11:00 am</td>
<td>Track</td>
<td>La Verne, Pom-Pitzer, Redlands</td>
<td>Caltech</td>
</tr>
<tr>
<td>Sat</td>
<td>4-21</td>
<td>2:00 pm</td>
<td>Tennis (W)</td>
<td>Pomona-Pitzer</td>
<td>Pomona-Pitzer</td>
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<tr>
<td>Mon</td>
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<td>Golf</td>
<td>Redlands</td>
<td>Occidental</td>
</tr>
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<td>4-25</td>
<td>3:00 pm</td>
<td>Tennis (W)</td>
<td>Whittier</td>
<td>Caltech</td>
</tr>
<tr>
<td>Fri</td>
<td>4-27</td>
<td>1:00 pm</td>
<td>Track</td>
<td>SCIAC Championship</td>
<td>Occidental</td>
</tr>
<tr>
<td>Fri</td>
<td>4-27</td>
<td>3:00 pm</td>
<td>Baseball</td>
<td>Occidental</td>
<td>Caltech</td>
</tr>
<tr>
<td>Sat</td>
<td>4-28</td>
<td>10:00 am</td>
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<td>SCIAC Championship</td>
<td>La Verne</td>
</tr>
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THE CALIFORNIA TECH
40-58 SAC \ CALTECH
Pasadena, California 91125