

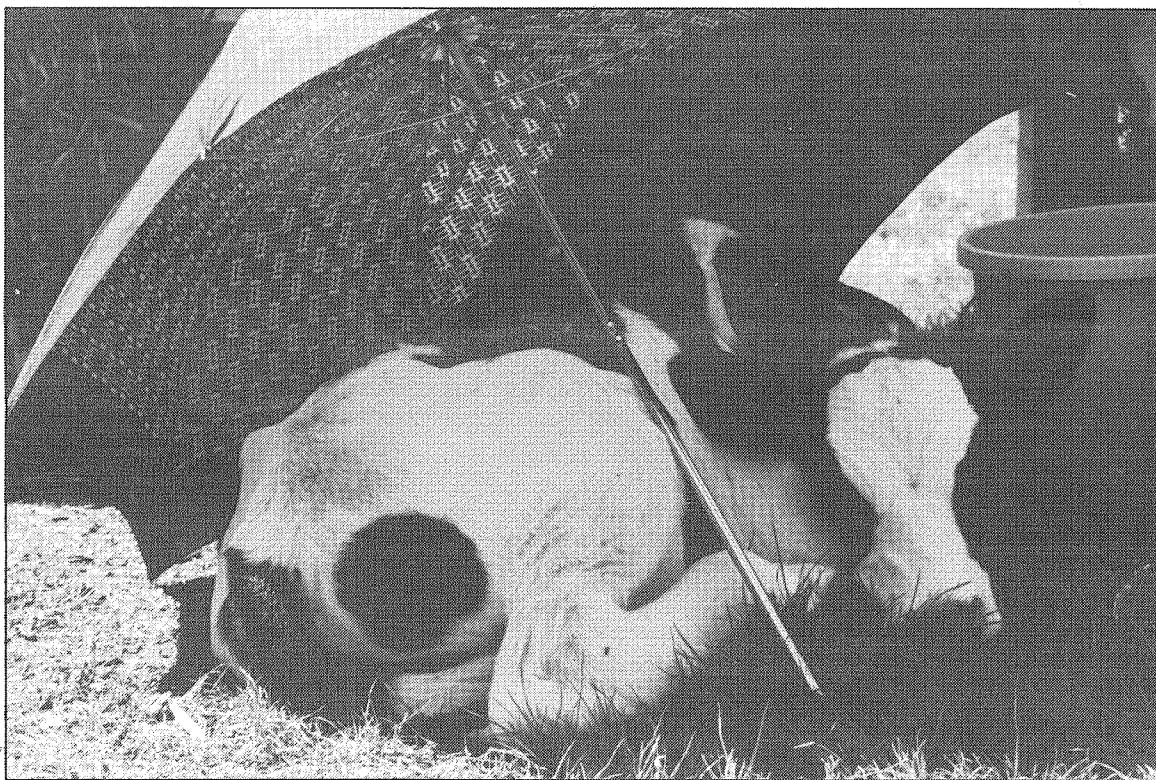
The California Tech

Volume XCIV, Number 27

Pasadena, California

You blow
the floor.

Friday, May 14, 1993



A lonely calf naps during a break in its duties as the centerpiece of Fleming seniors Steve Hoekstra, Mark Humphries, and John Briggs' "County Fair" stack.

Capitol Steps at Tech

by Michael Kantner

On May 8, Capitol Steps brought their unique brand of political satire to the Beckman Auditorium for the third time. The cast was amazed that the show even started. On their first appearance, the Gulf War started. Their second show was delayed five weeks due to the L.A. riots. For the night of the third show, Nostradamus had predicted a large earthquake in Southern California. There was no disaster that night, and the Capitol Steps entertained 2234 people in two virtually sold out shows. Their humor spanned a variety of topics, from the current administration to the people who voted for them.

The show started with a monologue containing a few trite Quayle jokes and other one liners, including the only non-political humor of the night. A Buddhist monk walks up to a hot dog stand in New York City. The vendor, wondering what the monk would want, asks, "What can I get you?" The monk replies, "Make me one with everything." From this point on, the show revolved around current events.

President Clinton, portrayed as a sax wielding Fonz wanna-be, was the butt of many jokes. His ability to simultaneously stand on both sides of a fence was lauded. Hillary, the First Lady, was portrayed as a

power hungry female intent on taking over all of Washington D.C.

One of the Steps recounted a story about Clinton jogging to a McDonald's. There was a beggar out on the street. Clinton, being a generous soul, tossed him a quarter. After the media descended on the beggar, he had one comment: "I voted for change, and I guess I got it."

As expected, there were some jokes about the Bush/Quayle years. Fortunately, they were few and far between. Perot, since he has tried to stay in the news, was not spared. The first Perot bit started with a comparison to David Koresh. They are both "wackos from Texas." Ross was depicted as a short man with big ears and huge cowboy hat (no surprises there). Admiral Stockdale was depicted as a bumbling idiot.

The skits almost made you feel sorry for Stockdale while they mercilessly reenacted a Perot style infomercial. Perot's famed charts were well represented by a bar graph, line graph, and pie graph. The pie graph depicted the tax revenue from apple pies, cherry pies, lemon pies, and cow pies.

Getting one's name into the Steps' routine is in some sense a symbol of having arrived in Washington, or at least having made news. The women in politics

STEPS, page 11

Nominations are now open for the Senior Class President and Secretary/Treasurer and the Junior Class president and Secretary/Treasurer. The senior class officers are responsible for setting the date for Ditch Day and for determining the form of the year's commencement exercises. Junior class officers are responsible for planning Mudeo, and they must also obtain a speaker for their class's commencement exercises. The officers of each class will be elected by that class.

Nominations for the four offices will be open until 5:00 p.m. on Tuesday, May 25. If you are interested in running for one of these offices, please print your name on the sign-up sheet on the east side of Winnett and send a signed note to the ASCIT Secretary, Karen Shih, MSC #686. It is also recommended that nominees send election statements to the *Tech*; deadline for submissions is 5:00 p.m. Wednesday, May 26. Elections will be held on Tuesday, June 1.

Questions may be directed to David Derkits, the ASCIT Election Chair—dderkits@cco, 795-1966, MSC #553, or Page 240.

1993 McKinney Prize Winners

by Jenijoy La Belle

The McKinney Committee of the Caltech Literature Faculty is pleased to announce the winners in the 1993 contest for excellence in writing. In the category of non-fiction essay, first prize was won jointly by Kevin Kraft and Rich Benzinger. In the category of prose fiction, first prize is awarded to Zackary Berger, second prize to Linda Springer. Truxton Fulton won first prize in poetry. Honorable Mention is given to Joanna Wills, Adalberto Erives, and Debra Tuttle.

OpenLine

by Zackary Dov Berger

OpenLine, a Caltech group of students, staff, and faculty, is holding an open community forum on Thursday, May 19th, entitled "L.A. '93: One year later . . . what has changed?" The forum will be held from 11:30 A.M. to 2 in the Winnett Student Lounge with a panel of speakers that includes Mayor Rick Cole of Pasadena, Shirley Adams of the Urban League, Kathy Imahara of the Asian Legal Center, Dr. William Dillard (pastor, 2nd Baptist Church), and Wilbur Smith of the Pasadena School District. Paul Johnson, Caltech Provost, will make the opening remarks; Dr. Alex Norman of UCLA will help

OPEN LINE, page 10

The Caltech Skinny-Dippers are organizing a trip to the clothing-optional section of San Onofre State Beach on Sunday, May 16, leaving from the smiley face at Holliston and San Pasqual at 9:00 A.M. They will play volleyball with the San Diego Camping Bares. For directions and info, contact David Brahm, x6445, or e-mail brahm@cco.

Ditch Day '93

by Chris DuPuis

In the chill morning air, sleepy underclassmen emerged from their rooms with one question on their lips: "Is Ditch Day today?" It quickly became apparent that today, Thursday, May 13th, was truly the proverbial "Tomorrow." By 7:45 a.m., the sounds and smells of panicked seniors scampering to finish their stacks permeated the houses, and reports of a cow on the Olive Walk were being circulated. At 8:00, the last of the seniors had scurried off to their cars, and the rest of the campus was free to assault the best laid plans of their senior neighbors.

Each of the undergraduate houses was challenged and entertained by the puzzles presented by the crafty seniors. However, since all of the undergrads are completely apathetic and did not send comments on Ditch Day to us at *The Tech*, we can only mention a few of the fine stacks that we observed.

In Blacker House, Anna George and Diana McMahon strove to increase the social status of the moose with their "Northern Exposure" stack. Under the orders of Ben Smith, the Blacker Armored Division improved the fortifications around campus grounds. Junior Miikka Kangas, working on Zeus's "Land of Tech" stack, was captured by the crew of "Star Trek: The Stack," a production of Brian Kurkoski, Jen Wright, and the late Gene Roddenberry.

Dabney action included the utter destruction of a Honda Civic, which was just one of many events

in the "Randomness Stack" of Rich Zitola and Seth Noble. Freshman Andrea Cavalluzzo played the part of a "woman from a James Bond movie" in Yair Zadik's "Spy" stack. A.J. Lavin introduced a new element to Ditch Day with his "Doughnuts and Minimalism" theme.

Fleming had a cow (and a county fair), compliments of Steve Hoekstra, Mark Humphries, and John Briggs. Also, through the efforts of Ken Wiberg and Robert Underwood, Flems thwarted N.B.C.'s attempts to kidnap David Letterman and destroy his last show.

The events in Lloyd House ranged from the existentialist "D.O.G." stack (by Jen Remine, Daniel Sandoval, Maria Toronto, Dan Kim, Matt Tucker, and Francis Chong) to Aimee Smith's "Beloved Battlemaiden" stack.

The Page House festivities included a stack celebrating the glories of the '80s, as seen by Steve Marshke, Doug Shiels, Yan Fernandez, and Pete Caylor.

In Ricketts House, Joanna Wills encouraged participants in her stack to explore the complex interrelationships of humans and armadillos. Pablo Thienprasit, in a grand gesture, bestowed three separate stacks upon the underclassmen. Julien Chen sent four underclassmen to explore historic Route 66. Another stack, believed to be called "Wally's stack," completely mystified observers.

Ruddock featured the "MTV" stack of Keith Oslakovich, George DITCH DAY, page 10

Undergraduates Honored at Mathematics Banquet

by Marge D'Elia

Several Caltech undergraduates were honored Tuesday night, May 11 at the annual Mathematics Awards Banquet held at the Athenaeum. Morgan Award Competition Prizes were awarded to Anoop Sinha and Mitesh Patel for a joint paper on Extensions of Arithmetic Mean. Each prize consists of a cash award and a certificate. Ryser Fellowship recipients

Zhanqing Ren and Monwhea Jeng were introduced by Prof. Alexander Kechris. Also introduced was Michael Anshelevich, recipient of the Fredrick J. Zeigler Memorial Award.

The Mathematics Committee on Prizes judging this year's Ward and Bell Prize entries consists of Professors Alexander Kechris, Chairman, W. A. J. Luxemburg, David Gabai, and David Wales.

The California Tech

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letters to the editor

Review Defended

I'm Dennis Chang, the co-author responsible for the blistering review of the vocal-piano music in TACIT's production of *The Importance of Being Earnest*. There are a few direct points I will bring up concerning Mr. Gary Olsen's letter reviewing my and Chris Echols' reviewing.

First, as Mr. Olsen shows his credentials, I show mine. I have eight years experience as a musician, playing three different instruments. In that time, I've worked in marching and concert bands, orchestras, and rockbands and have experienced the roles of member of the ensemble and also guest soloist. I have worked with choral groups as co-productions of my orchestra and local singers. As a result of my leadership within orchestra and band of my section and my frequent solo performances, I have seen all aspects of music and how it becomes something overwhelmingly wonderful. I know how music works, and it's my intention to someday direct or produce a musical work.

'Nuff said. I address the letter of last week. Olsen says that "[The songs] turned out to be nothing more than something to fill the time...the singing dulled the fast-paced humor..." (to quote us) and then declares that "This is untrue." He then goes on to explain how the songs, essentially, *filled the time* that was transitions in the play. Of course, the dulling of the humor is a matter of opinion and cannot be absolutely deemed as true or false, but let's be frank (and tactless): Here we have rip-roaring action of the wit—lines tearing and shrieking sarcasm and satire, and then *boom*, we have the sweet, trippy lines of some light love songs. What happened to the energy? Where did it go? A transition should carry the flow of energy right into the

next phase, instead of providing a contrast like the one I saw. TACIT definitely had the right idea; I hate sitting through scene changes at any play, musical, or opera. They just happened to (forgivably) miss the mark on this attempt.

To be truly tactless, I'll clarify what I said about the singer who "faltered." I intended to say: "he faltered *all the way through* in search of the accompaniment." The helicopter only entered at the beginning of the song, and I'm not even concerned with it—it is beyond the singer's control as to what flies overhead. However, it is absolutely under a soloist's control as to how he appears to be singing. Oftentimes, I would screw up some part of a violin solo, and I found out that I simply had to pretend nothing had gone wrong. Acknowledging mistakes in front of an audience destroys your confidence and results in a shabby performance. Here was my terrible attempt at being tactful by letting up on the singer, but I really missed this one.

Again, I tried to be tactful. Concerning the vocalist who lost projection "possibly because of the open-air setting, her projection wasn't good even when she was inside the hall. Considering that soloist Debi Tuttle could make the hall ring and the walls shake (bravo bravo!), there's an indication of a lack of projection here due to the singer herself. I tried to be nice, but here I am being attacked.

Tactless I really am. I have been called "blunt" and worse. I say that I tried to be a reviewer here—an unbiased observer expressing his true opinions. I'd be glad but cannot afford to befriend the actors and singers and see things from their point of view, but that's not what a review is about. A review is something some audience-member-to-be reads, not an actor-to-be. The ladies who sat beside me know little or nothing about the actors—they only know the audience's view, which I tried to represent. I admit to tactlessness, since it wasn't till after the review was done that I thought about how TACIT might take it, but I think Chris [Echols] made up for my negative comments with his closing paragraph as to how *Earnest* was more than worth it to go and see.

I hope that my comments did not scare lots of people away. If I was asked to do an advertisement, I would have done so with best effort. It was a review—and I tried my best to be an honest reviewer.

My apologies to TACIT for being blunt.

Dennis Chang

Review Assault

I would like to strongly second Gary Olsen's letter in the May 7th issue. I was delighted by the play, and especially impressed with the production's adherence to the Edwardian Age's setting. I cannot express my irritation upon reading the Echols/Chang review. The whole business about "the emphasis of the turn of the century detracting from the play" is laughable. Can one imagine how silly Wilde's dialogue would sound in any other setting but turn of the century England? Phrases like a butler's pompous "very good, sir", or "My good man", and the countless other phrases that are characteristic of that time, would sound absurd in any other. It's as stupid as staging Wodehouse's "Jeeves and Wooster" in another time setting. Peter Selars had some small success staging Mozart operas in modern times, but he is, by far, in the minority. It's unfortunate that reviewers feel they have to find something to discredit before their reviews will be taken seriously. The "hunting" for negative things to expose sometimes backfires, as in this case.

Tim Rogstad
Robinson Lab

Assault Reviewed

A fair, balanced, and accurate review is difficult to find. I have read rave reviews that have, in actuality, just been meaningless raving about truly awful books, movies, and theater productions. I have also read unfairly scathing reviews of productions that ranged in quality from good to excellent. However, the review of *The Importance of Being Earnest* done by Chris Echols and Dennis Chang was neither of these. Their comments on the play were clear and thorough, never lavishing unwarranted praise nor giving criticism without fully explaining their reasoning behind their opinions.

In contrast, the letters sent to *The Tech* complaining about this review have been completely one-



Ernest
Tomlinson

Ernest Explains

The California Tech proudly welcomes Ernest Tomlinson back to his position as Answer Man.

Dear Ernest:

Recently, I have been coveting my neighbors' TV and VCR. I am thinking of stealing them. Is this acceptable?

—pouting in Pasadena

Dear Pouting:

There is no problem, providing you follow certain guidelines. First, you should leave a misleading note behind, to confuse both your neighbors and the police. If you are caught, tell your neighbors that you meant no harm, and were planning to invite them over to watch movies. I'm sure your neighbors will be gullible enough to fall for this, and you'll get a free VCR from the deal.

—Ernest

Dear Ernest:

What is the largest peninsula in the world?

—Dave in physics

Dear Dr. Goodstein:

According to our geography expert, Johann Hornstein, the world's largest peninsula is the Yucatan. Thanks for asking.

Ernest Explains should be read for entertainment only. Please send any questions or comments to editors@tech or by campus mail to MSC #987.

sided in their defense of the production. Mr. Olsen's letter went so far as to suggest that the review was unfair because Echols and Chang did not consider the feelings of the actors, and that the proper way to criticize a play is to talk with the actors backstage. Unfortunately, Mr. Olsen is not taking into account the fact that a play is put on for an audience, most of whom will never have any interaction with the performers outside of the production. Reviews of plays are addressed to this audience, not to the actors. Reviews should be objective and accurate. If you want to see a completely favorable criticism of any production, *The Tech* will be more than happy to print it, provided you pay the normal rate for advertisement.

Christopher DuPuis

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Volume XCIV • Number 27
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EDITORS

Michael "Mr. Roosevelt" Benedetti
Chris "Godot" DuPuis
Michael "George 35" Radford

CRIME BEAT EDITOR
Gypsy Achong

EVENTS & NOTICES EDITOR
Jeff Denniston

WORLD NEWS EDITOR
Momo Jeng

PHOTOGRAPHER
Anoop Sinha

WRITERS
Khurram Dastgir-Khan
Jeff Goldsmith
Michael Kantner
Jenjoy LaBelle

BUSINESS MANAGER
Chris Echols

CIRCULATION
Ken Walsh
Wei Lin

The California Tech
Caltech 40-58 SAC
1201 East California Boulevard
Pasadena, California 91125
(818) 356-6154

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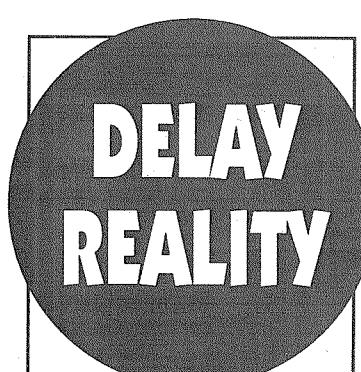
Letters and announcements are welcome. All contributions should include the author's name and phone number and the intended date of publication. The editors reserve the right to abridge and edit all submissions for literacy, expediency, etc.

Turn in copy (preferably on Macintosh 3.5 inch disk) to the *Tech* mailbox outside SAC room 40. E-mail may be sent to editors@tech.caltech.edu. The deadline for copy is Wednesday at 5 P.M.; for announcements, Tuesday at 5 P.M.

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by Gypsy Achong

To all parents: Please do not allow your children to swim in Millikan Pond.

To all drivers: There have been many incidents of reckless driving in the Wilson Parking structure. Apparently drivers speed down the aisleways, and do not slow down for turns. They therefore need the whole aisleway to negotiate the turns, making life extremely risky for the drivers coming up the aisleway.

5/6 7:45-9:15 P.M. A student parked his car in the Tournament Park parking lot. He remained near his vehicle for about twenty minutes talking to friends. On his return he discovered that his car battery had been stolen. The "hood" is not of the securing type and was not locked with any type of securing device. \$55.

5/8 6:05 A.M. A student's bike was stolen from her Catalina apartment balcony. A witness reported seeing two males descending the stairway carrying a bike at this time. The area was searched but neither the suspects nor the bike could be located. \$200.

ASCIT Minutes May 11th

by Karen Shih

Present: Moeen, Mike, me, Ewald, Flora, Angie, Jennifer Tritschuh (Excomm), Dave Derkits (Election Committee), Tnghia Vuong (Alpine, Deutsch Clubs), Ryan Naone (Hawaiian Club, CCSA), Mystery Impact Person.

Money Matters:

Impact got money for third term.

Alpine Club wants money for white water rafting. Three ASCIT members have expressed interest. It is scheduled for the 22nd-23rd. ASCIT decides to sponsor \$8 per ASCIT member; the total cost is \$20+. Motion passed (5-0-4; 4 for those voting members who are not present).

Angie wants \$30 for a women's sleep-over in the Y Lounge this Friday. She has asked for funding from all different sources; the money will come out of Anandi's budget.

Clyde the steel-drum extraordinaire from Old Town will be coming to perform a noon day concert for \$100. Moeen wants money set aside for a possible Monday concert. Motion passed, 5-0-4.

SURF Advisory Committee: ASCIT will be appointing 3 members to the SURF AdComm; one from the BOD, two from the student body. The SURF AdComm meets once a term to oversee operation of the SURF program during the school year. The appointees are required to have SURFed before.

ASCIT Van: Discussion is held over the possibility of using the van for peak airport hours, i.e., two days after finals week. Logistics will be worked out when Gisela is back. Basically, the BOD likes the idea. Considerations will include the driver, hours, liability for luggage and missed flights, fees, and reservations.

Sign-ups for the Senior Class and Junior Class election opened on May 13th. Nominations will close on Tuesday, May 26th.

Election Procedure Meeting will be this Thursday at 8:00 P.M.

Down-scaling of Installations Dinner is discussed briefly. Tabled for more discussion at a later date.

Meeting Adjourned 11:15 P.M.

Write for the Tech.

The weekly Tech meeting will be held today in the Coffeehouse at 12:15. Free pizza will be served.

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No Appointment Needed

Armenia/Azerbaijan

Armenia and Azerbaijan gave support for a peace plan under which Armenia would withdraw from Azerbaijan's Kelbajar zone, hostilities would cease, and peace talks would begin.

Clinton and Congress

Clinton presented a campaign reform plan to the Congress. His plan eliminates large loopholes in the campaign laws, but many say it doesn't go far enough. The plan would give candidates vouchers for low-cost advertising in return for accepting voluntary spending limits. The Supreme Court has said that Congress cannot impose mandatory spending limits. Republicans opposed the plan, calling it "welfare for politicians." The plan would also repeal the tax deduction for corporate lobbying costs, ban lobbyists from raising money for politicians whose votes they try to influence, and attempt to end unrestricted donations.

The Senate voted for Clinton's plan to change the name of the Environmental Protection Agency to the Department of Environmental Protection, and to make it a cabinet level branch. The plan still needs to be passed by the House.

Clinton's nomination of John Rollwagen for the No. 2 position in the Commerce department was put on hold after it was discovered that he was being investigated by the SEC for actions he took as CEO and chairman of Cray Research Inc. Congress has decided to not make their decision until after the SEC resolves the case.

Clinton's "motor voter" bill was passed by both branches of Congress. The plan allows voters to register at motor vehicle offices.

Clinton—Miscellaneous

The U.S. Chamber of Congress attacked Clinton's proposals for an energy tax, raise in corporate tax rates, and increases in foreign royalty taxes. These three taxes would raise about \$104 billion.

A Times Mirror Center poll showed public support for Clinton's plan was dropping. A poll two months ago showed that 58% supported the president's plan, while 27% opposed it. The new poll shows 46% for and 36% against.

Clinton postponed revealing his new health care plan until sometime in mid-June.

Clinton—Plans and actions

Clinton's health care task force considered a mandatory payroll

deduction to fund the health care reforms. The funds would go to large consumer cooperatives which would be set up to be insurance for members. The task force is considering about 20 other possible tax plans, although it has rules out a value added tax.

Clinton announced a plan to combine workers' compensation, auto insurance, and business liability insurance into one large health care system which would achieve "around-the-clock health coverage under one system."

The Clinton Administration announced that it has good evidence that the Iraqi government made an assassination attempt on Bush when he was in Kuwait in April.

The Clinton Administration considered banning U.S. airlines from selling off international routes.

The Clinton Administration indicated that its operations in Bosnia would consist of air strikes and arms shipments to Bosnian Muslims. The strikes would last several months until a peace agreement

Israel

Israel told Lebanon that it would withdraw its troops from southern Lebanon if certain plans for border security were adopted.

The right-wing religious Shas Party threatened to leave the coalition government unless Prime Minister Rabin fired the left-wing education minister of the Meretz Bloc. Rabin warned both sides that if Israel's coalition government fell, the Middle East peace talks would end. The government survived subsequent no-confidence motions, by 56-47, despite the absence of 6 members of the Shas Party.

Kyrgyzstan

Kyrgyzstan's legislature passed a new constitution. It replaces the current Parliament, which was elected before the fall of the Soviet Union, with a new one.

Paraguay

Juan Carlos Wasmoy of the long-ruling Colorado Party won presidential elections, getting 40% of the vote. The next two candidates, Domingo Laino and Guillermo Caballero, got 33% and 25%, respectively. Jimmy Carter and other international observers said that the election was very democratic.

United Kingdom

The British government agreed to an opposition amendment to the European Community unity treaty that would exempt Britain from the EC rules governing acceptable working conditions.

United States

Alan Greenspan, head of the Federal Reserve, said that the banking industry is in a long-term decline. He pointed out that companies are relying more and more on investors for loans, rather than banks.

Ben & Jerry's Homemade, Inc. announced a 24% increase in net income in the recent quarter. The growth is largely a result of the company's new frozen yogurt line, which made up 20% of sales, an increase of 5% from the previous quarter. Chuck Lacy, president of Ben and Jerry's said that sales growth has decreased from 1992, when sales were rising rapidly as the result of the company's introduction of chocolate chip cookie dough. A spokesman said "Cookie dough was the equivalent of Microsoft Windows in software." Sales rose this year from \$27.3 million to \$32.1 million, paying 21 cents a share.

DELIVERY SPECIAL

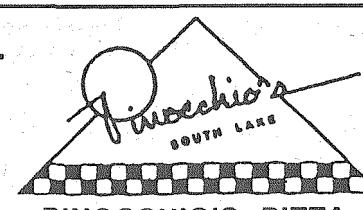
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a weekly feature covering Dirk's Car

Car Parts purchased/installed this week:

- 1) 2 Neon wiper blade airfoils
- 2) 1 Gallon windshield wiper fluid
- 3) 1 Set hydraulic shocks (see below)
- 4) 1 Roll tinted plastic laminate

Notable Points:

- 1) I have heard that the wiper airfoils will improve wiper performance tenfold, so I will try them and report the results.
- 2) I will remove the windows, and apply the laminate, to produce the effect of tinted windows. This will make my car more imposing to my fellow drivers.
- 3) I am beginning to rebuild my suspension this week.

In future installments, look for:

- 1) New body panels.

This week, I am starting to convert my car to a variable height suspension system. This means that a switch or lever inside the car will control a hydraulic system, that will pump hydraulic fluid into the shocks to raise or lower the car off the ground. The car will gain better handling by this system, since the lower to the ground you are the better aerodynamics and balance you will have. I expect this project to last several weeks.

Total cost of car parts this week: \$425



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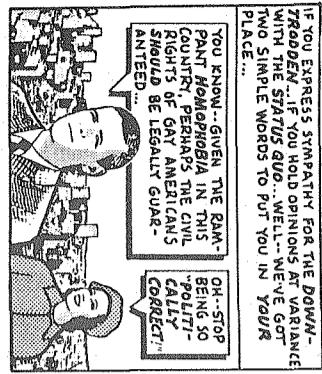
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This event is co-sponsored by the Campus Computing Organization and the Purchasing Department.



Jim's Journal

Today Ruth and I drove into Santa Fe, New Mexico.

Ruth bought some jewelry from one of the Indian merchants on the street.

It was a ring, which she put on as soon as she bought it.

She said she couldn't believe all the stuff you could buy here.



THIS MODERN WORLD

by TOM TOMORROW

Ruth and I have been trading off sleeping and driving.

Today we finally decided that sleeping in the car is uncomfortable.

So we stopped at a camping ground and set up Ruth's tent.

But there were so many mosquitoes and howling coyotes that it was even worse than sleeping in the car.

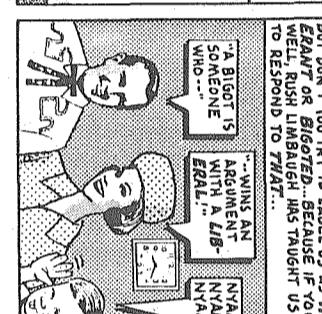


Today we got to Houston, Texas.

Ruth's high-school friend Tammy lives here, so we stayed at her house.

We sat in her living room and she and Ruth talked about all that's happened since high school.

Tammy had two kids, and one of them kept staring at me.

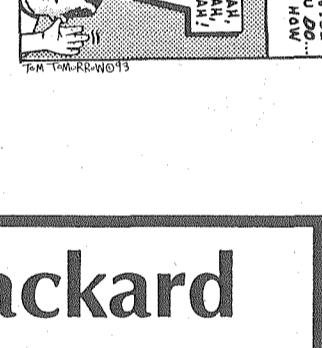


Today I was woken up by Tammy's kids playing and laughing outside my room.

It was 6am and Tammy was getting ready for work, so Ruth and I had to leave too.

Tammy thanked us for coming, and told me it was very nice meeting me.

Ruth asked what her kids were supposed to do all day and Tammy said, "oh, they'll be fine."

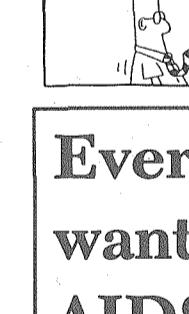


As we drove out of Texas, Ruth told me about her friend Tammy. "It's a sad story," she said.

She told me about how Tammy got married right after high school, then divorced after having two kids.

Then a big truck passed us on the highway and honked at us.

Ruth said "oap!" after noticing she was going 45 mph in the fast lane.



Elvis's actual mansion was a lot smaller than we thought it would be.

"I feel faint!" a guy in the tour group said. (He was just joking.)

Then we ate in the Hound Dog Cafe, and noticed that there were a lot of flies there.

Everything you always wanted to know about AIDS*

An HIV/AIDS education program sponsored by the HIV/AIDS Advisory Committee will be presented after dinner in Page House on Tuesday, May 18, and in Fleming House on Wednesday, May 19. This informative program will involve health educators Katrina Hammons and Joel Tan from the All Saints AIDS Service Center, as well as a panel of HIV/AIDS-infected individuals. For information, please call Dinah Lee Schaller at x2961.

*but we're afraid to ask

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SKURV Radio Resurrected

Everybody's favorite low-power station, Scurve Radio (98.3 F.M., in stereo) is back on the dial, with the most eclectic programming available in Los Angeles. Here's the schedule as it stands now:

Monday

- 7-9 p.m. Steve Sobelman—Rock, pop, blues, jazz, and other wackiness from a lunatic mind.
- 9-11 p.m. Yani Copas—Whatever she can dig up.
- 11 p.m. to 1 a.m. Connie Lynne Villani—Novelty, ska, children's music, oldies and NO ELP or Moody Blues. Plus, superhits of the 70's, all on 8-track.
- 1-2 a.m. Keith Counsell—Metal, Jazz, Gibon noises.

Tuesday

- 7-9 p.m. Steve Sobelman—Music he thinks you should hear.
- 9-10 p.m. Bevan Bennett—Rock, roll, other noise. Everybody Polka!
- 10 p.m. to 2 a.m. Wart—Techno, industrial, disco, special guest: the Brady Bunch. Did I mention Depeche Mode?

Wednesday

- 7-9 p.m. Steve Sobelman—Mood music for Hump Day.
- 9-10 p.m. Xeno—If you're not already depressed, you will be.
- 10-11 p.m. Scotty Townshend—All I can say is, "Moist Priest!"
- 11 p.m. to 12 a.m. Anthony Molinaro—Industrial, other stuff. Muh nuh meh nuh, do do dedoo do.
- 12-2 a.m. DAD—Weird Al meets Harry Connick, Jr. meets show tunes meets pop hits. Wow.

Thursday

- 7-9 p.m. Andrea Cavaluzzo—Good time happy tunes.
- 9-10 p.m. Yani Copas—Whatever she didn't play on Monday.
- 10-11 p.m. Anne Dudzik—Music with a good beat you can Nethack to.
- 11 p.m. to 12 a.m. Julius Yang, with Steve Sobelman—Metal, hard rock, classic rock, live guitar, and the highest quality witty banter. So, what's your point?
- 12-2 a.m. DAD—Stay up late with the man who redefines "blancmange."

Friday

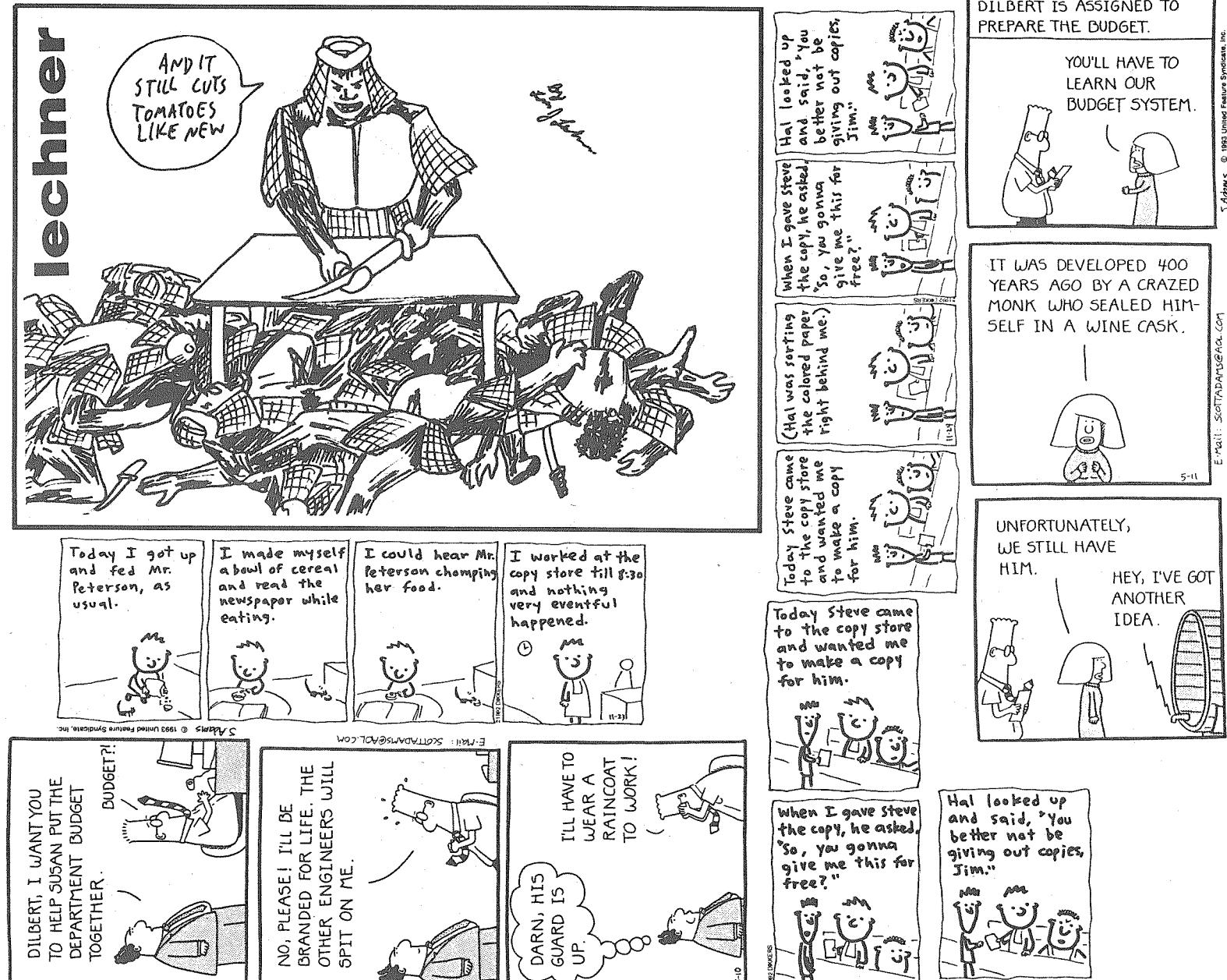
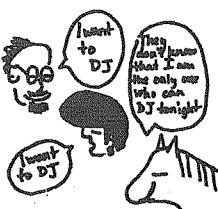
- 7-9 p.m. Connie Lynne Villani—Who cares about her music? What I want to know is, is she naked?
- 9-10 p.m. Justin Stapleton—The Rockin' Rudd.
- 10-11 p.m. Hans Hornstein—Forget the nutty name. This is the Rudd that Really Rocks!
- 11 p.m. to 1 a.m. Magyar—This space for rent.
- 1-2 a.m. Keith Counsell—More tunes to get trashed by.

Saturday

- 8-9 p.m. Anne—She'll make you wonder how you ever did without that "Loudness" button.
- 9-11 p.m. Aaron—Ska and other grooviness.
- 11 p.m. to 1 a.m. Magyar—More madness from the Mad Hungarian.

Sunday

- 7-8 p.m. Art—Music and talk from the man who epitomizes coherency.
- 8-10 p.m. Xeno—Music to fend off that pesky occasional good mood.
- 10 p.m. to 12 a.m. Adam Villani—Progressive rock and other random stuff.
- 12-2 a.m. Kevin Neville—Music to finish up that last minute homework by.



A highly placed engineer reveals his technical assessment of the new \$4925.00*, 59 MIPS, accelerated graphics, eye-popping SPARCstation LX.



"Can I keep it?"

To more than 650,000 people, a Sun workstation is a necessity of life. Presenting the latest addiction, SPARCstation LX.

The numbers are impressive, with 50 MHz, 59 MIPS, 64-bit memory bus, and 10Mb/sec I/O. Not to mention the 8-bit accelerated graphics.

And the built-in ISDN lets you share multimedia documents with anyone, anywhere. You can even create powerful workgroups of SPARCstation LXs and existing PCs. Or just sit down, load your favorite application, and you might not want to leave your desk.

Available thru the Campus Computing Organization 818-356-4612.

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Patrick McGee
Economics major

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Follow-up letters
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My checkbook
A list of notable business quotes
A fax/modem
A fax I sent to a software company
My system for playing the horses
My win/loss record for the year

What's on your PowerBook?





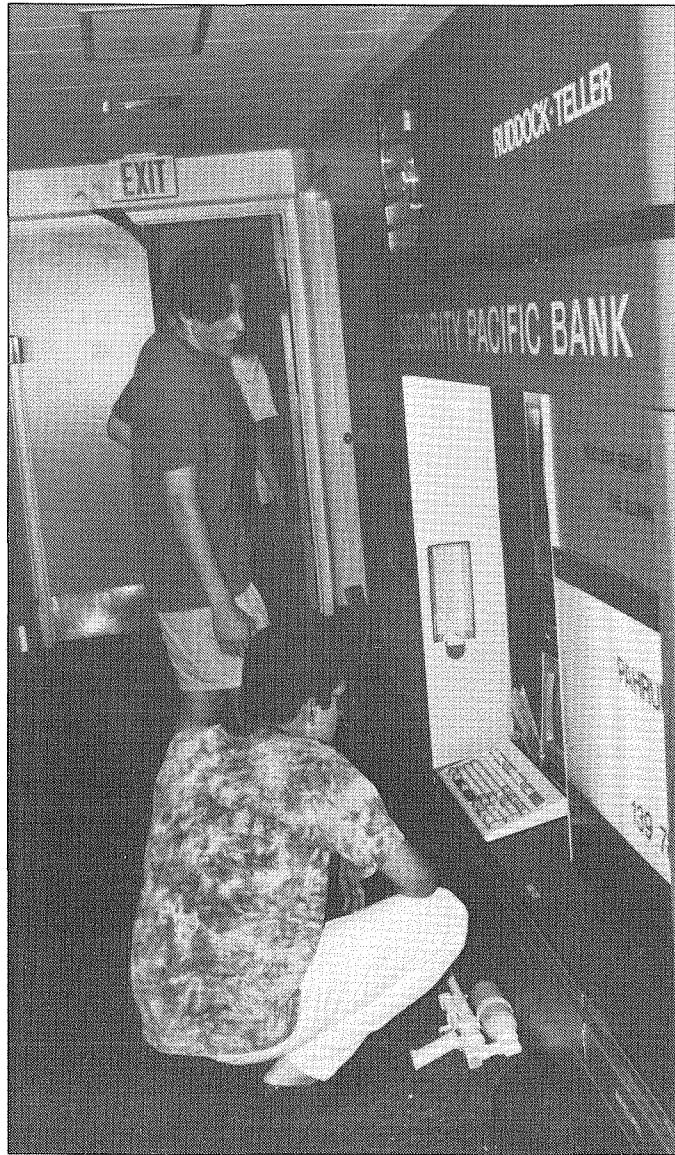
Scott Waltz
Economics professor

Overheads
Lecture notes
Assignments
Tests I've given
Syllabus for International Finance 281B
Syllabus for Economic Development 286A
Grade tracking
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Letters to colleagues
An article on national transportation policy
Three chapters for a new textbook
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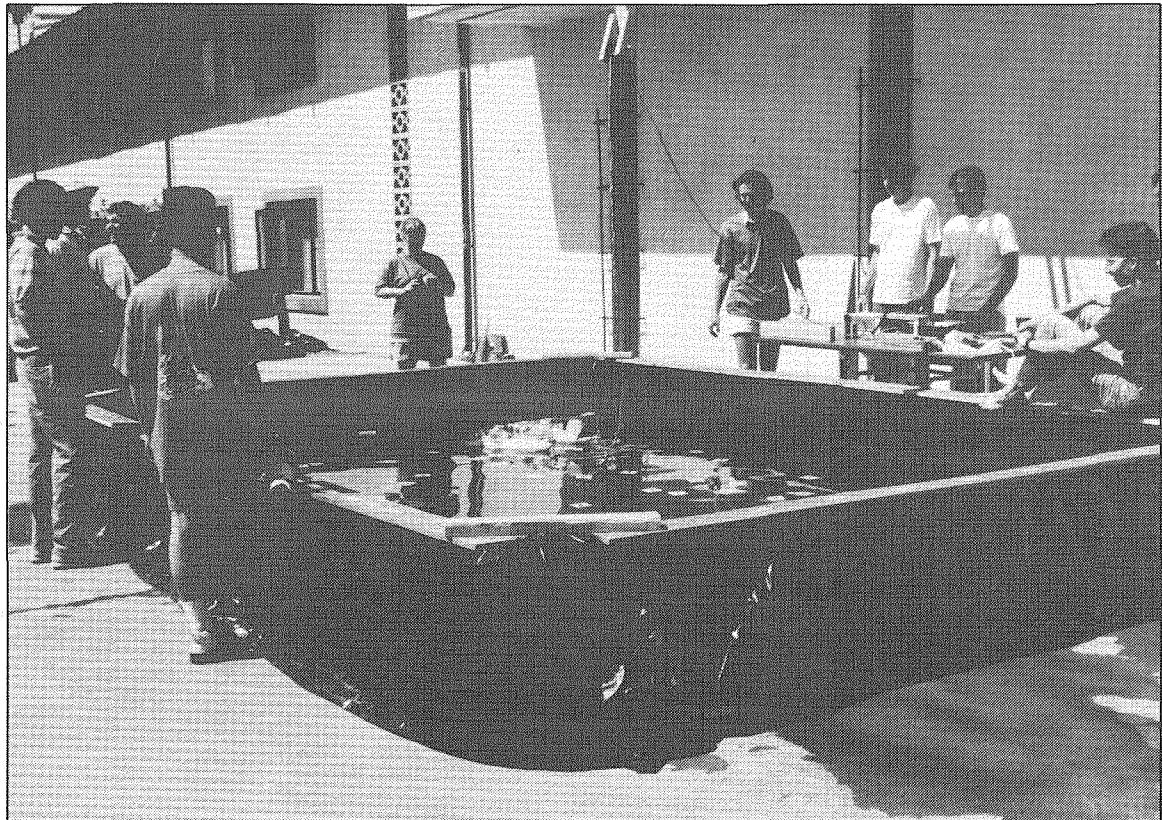
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Ditch Day



Matt Noble and Asif Hassan admire the artistry of Tim Gerk, Kim Gin, Dave Liney, and Valerie Jacox's "Nuclear Security" stack in Ruddock.



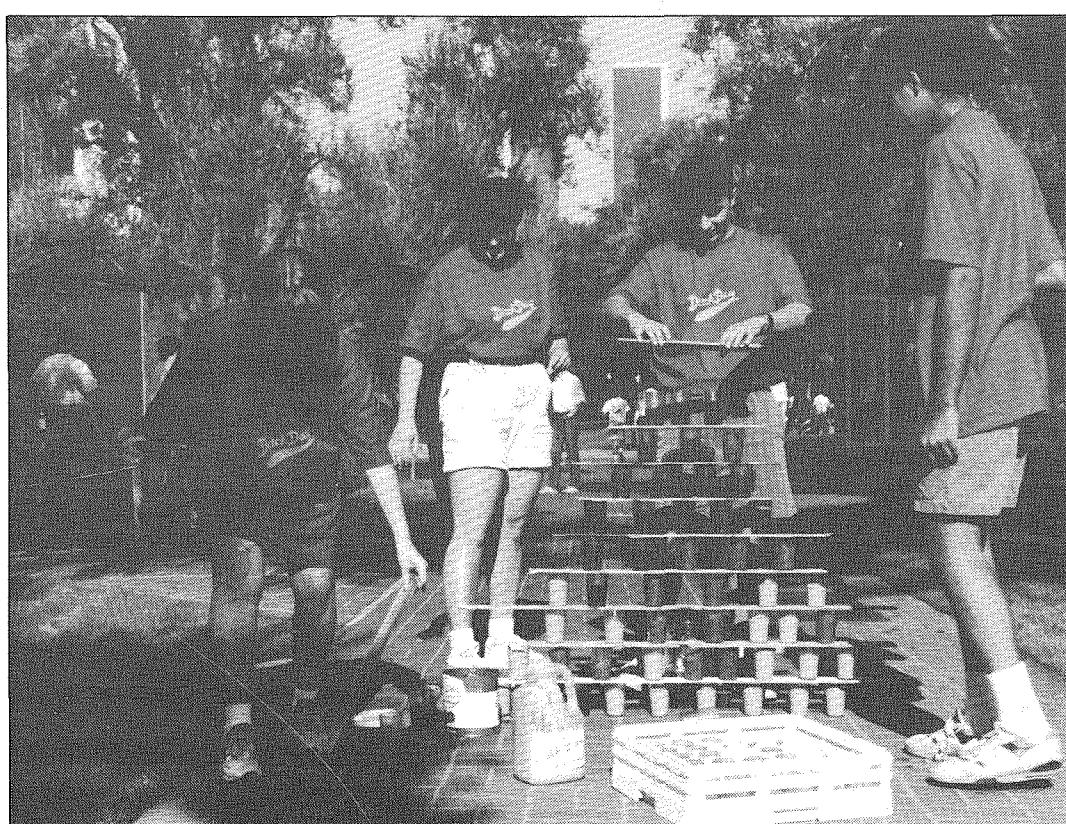
Lloydies navigate their remote-controlled boat to break the "D.O.G." Stack.



No one really understands the connection between Amitabh Mehra's "Lord of the Rings" stack and the outlandish garb of Michael Medaglia and company.



Pasadena Police were quick to respond to a murder in Page House, as evidenced by the box of doughnuts in the corner.



Flems construct a pyramid of condiments to help foil NBC's plot to ruin David Letterman's last "Late Night" program.

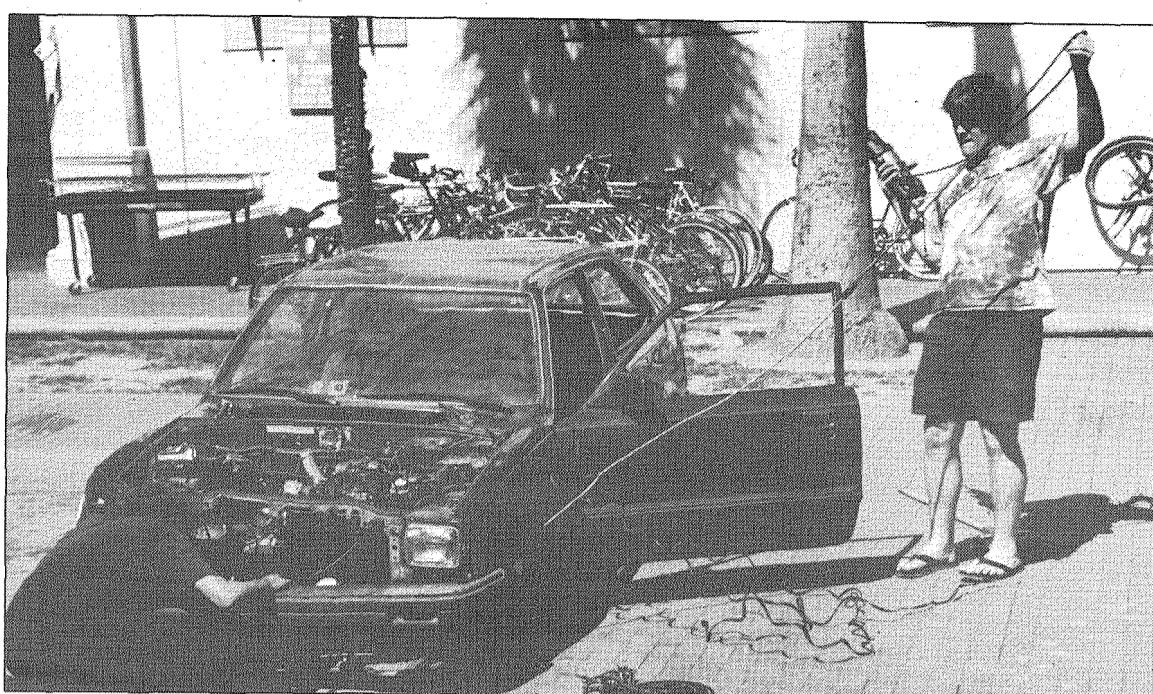


photo by Anoop Sinha

Sophomore Chris "Godot" DuPuis and junior Brent "The Beast" Eubanks begin the demolition of a Honda for Dabney seniors Seth Noble and Rich Zitola's "Randomness Stack." The car was eventually reduced to a pile of scrap with an oxyacetylene torch, a power saw, and an axe.



photo by Anoop Sinha

Galactic adventurers pilot the Enterprise through a horde of unruly Scurves in Brian Kurkoski and Jennifer Wright's "Star Trek: The Stack."

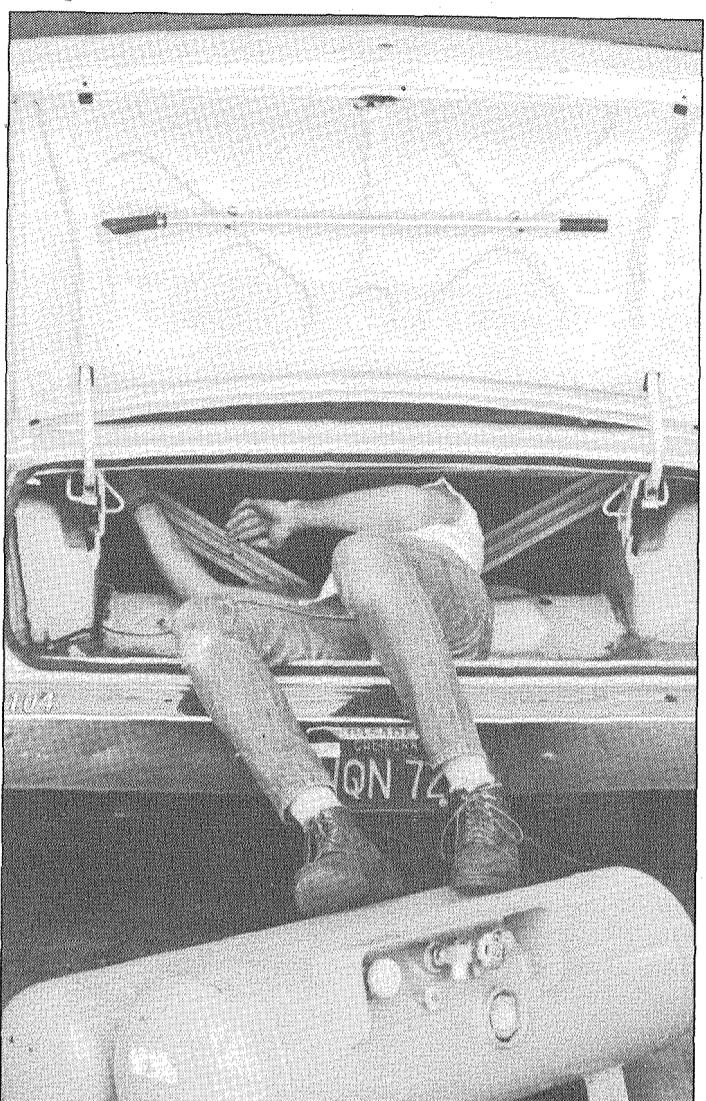


photo by Anoop Sinha

Beckman-Centennial freshman William Tyson works to transform senior Peter Zwitchie's '71 Buick into a jet-powered Batmobile for the "Bat Stack."

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—Rod Kiewiet

"Tastiest soup I ever did eat."

—Pete Dervan

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WHAT'S BEYOND CALTECH?



Come hear one Caltech alum's success story!

Who:

Thomas Little - Chairman and Founder of Little & Co., Inc.
BS-Engineering-1962 - Caltech
MBA-Merchandising-1964 - Harvard

Topic:

Mr. Little will discuss his rise to the top in a career not typical to Caltech graduates. Little & Co. was named the 16th fastest growing private business by Inc. in December 1991. The company processes credit card payments, has 100 employees, and \$31 million in annual sales.

Where:

Judy Library, Baxter Hall

When:

Friday, 14 May 1993
4 - 5 p.m. Discussion
5 - 6 p.m. Reception (with refreshments)

Sponsored by: Career Development Center and Student Affairs

continued from page 1

OpenLine

moderate the discussion. The discussion will focus on "what has and has not changed since the rioting last year," the response to the riots of education in general and the Caltech community in particular. All opinions and ideas are welcome.

OpenLine began as a loose association formed during the aftermath of last year's L.A. riots. The group is not one with a defined, circumscribed purpose, says graduate student Gary Mines, but is made up of people who get involved to a greater or lesser extent in topics they're interested in. Pam Coomes, a staff member active in OpenLine, describes the group as encompassing, and alerting the campus to, different cultures and backgrounds: "It's a headlight, showing people what's available at Caltech." She also characterizes the group's purpose as one of outreach, to "help those less fortunate than ourselves." By the name OpenLine, says Coomes, is meant the group's openness and willingness to help. "If you need help or information," she says, "we'll give it to you, and if we don't have it, we'll find it out."

On this unstructured basis the group's activities have been many and varied: it has sponsored a multicultural picnic, publicized (with the Y) the AIDS function Posada, run clothing drives, and helped to raise money for an ill staff member in the computer science department. In addition, OpenLine meets every Tuesday for lunch from 12 to 1 at the Y lounge: the group's own announcement in the *Tech* mentions such topics of discussion as the development of a youth center and the compilation of a "multicultural book for the understanding of all nationalities, traditions, and customs." The group is also planning a visit to Los Angeles' Museum of Tolerance.

Mostly Caltech staff and only a few students and faculty show up to the Tuesday discussions, say those who attend. Nevertheless, the group, by its very existence and by its sponsorship of such activities as the May 19th forum, encourages those who would like to see greater cooperation between different members of the Caltech community and recognition of Caltech's often-neglected staff.

For more information about OpenLine, call Pam Coomes at x4723 or Gary Mines at 577-7816.

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letters of a biped savage

Fragments

by Khurram Dastgir-Khan

Why is this an institute of "technology" and not of "science"? Are we not all laboring to probe the mysteries of the universe and its contents? At least that is the idea. Perhaps "technology" in Caltech's name is a hint of the implicit purpose of science.

Science, for its own sake, is a noble undertaking, and like all noble undertakings, is perpetually threatened by mercantilism. That is why the most popular public arguments for the Superconducting Supercollider are the jobs that the SSC will bring to a Texas prairie, and the technological spin-offs it is expected to generate. The arguments are *not* the exploration and understanding of the nature of matter. Like all other professions, the reality of *doing* science is a Möbius strip of compromises.

d

The basic reality of human existence is economic. We all need jobs. My needs and my consumerist desires feel like albatrosses hung around my neck.

dd

Walking around campus, I was struck by the beauty of the fresh-green, carpet-smooth grass that Grounds Services strives so strenuously to maintain. Most of the grass, however, is superfluous. I doubt if Grounds Services is following Goethe's edict to "...encourage the Beautiful, for the Useful encourages itself." The grass at Caltech, it seems, is there only to be looked at. What a waste of water, seed and labor; we might as well have artificial turf for all the use we make of it.

Somehow, we the students are rarely found relaxing or studying on the beautiful expanses of green that dot the campus. It might be that the only study possible on grass is of the likes of Proust's 16-volume *Remembrance of Things Past*. It is difficult to solve partial differential equations while lolling on the greens; one invariably dozes off sooner or later.

ddd

This weekend, I chopped off my hair. I took a pair of sharp scissors, and started hacking as if I were making my way in a tropical jungle with a machete. The result is hilarious.

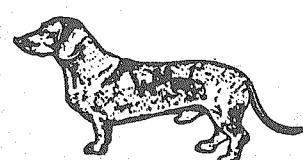
ddd

This spring cutting, however, was full of pathos. It was an effort to capitalize on my waning undergraduate freedom. Not that I will be led away in chains immediately after being handed my diploma, but I realized that my freedom will never be the same. What freedom, you ask? It is the freedom of making—with a devil-may-care attitude—a fool of oneself without suffering.

dd

"The truth," Joyce Carol Oates writes in her journal, "is likely to be petty."

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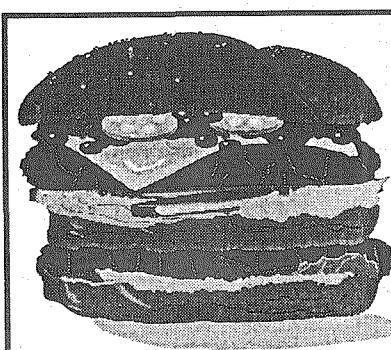


Ditch Day

Fox, Kris Blouke, Scott Halliday, Tarun Kapoor, Miran Rhee, and Ahmed Serag, guest-starring Dean D. Roderick Kiewiet. The "U.S.S. Pasadena" stack included the use of a submarine to discover several clues, and the participants made a fine contribution to the aesthetic side of the city of Pasadena by changing all of the signs for Bullock's to read "Buttock's."

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Bridge Without Sam

by Jeff Goldsmith

Mining the Ether

An undergraduate from Yale, Matthew Clegg, wrote a program that allows bridge play over the internet. Four people from anywhere on the globe can sit down and play some bridge against each other. The program stores hands and allows for comparisons, so pairs can play in a seeming IMP or Matchpoint pair game. Kudos to Matt for building something that worked out so well.

Marty Seligman and Paul Soloway challenged some members of the US Junior team to repeated 26-board matches via computer. For the first time, the Juniors won a match. This time, they were Sam Dinkin [former Tech bridge columnist—eds.], John (Bear) Fout and, for three hands, Erik (Toucan) Secan. The Juniors won by just under ten IMPs. Significant contributions were made by two well-played boards.

N/S Vul	♦ A
	♥ J10842
	♦ 32
	♣ AJ832
	♠ QJ10842
	♥ Q5
	♦ 75
	♣ Q64
	N
	W
	E
	S
	♦ KJ5
	♥ 973
	♦ KQ10986
	♣ 7
	♦ 963
	♥ AK6
	♦ AJ4
	♣ K1095

NORTH	EAST	SOUTH	WEST
Secan	Seligman	Dinkin	Soloway
Pass	Pass	1NT	Pass
20	Double	22	24
34	34	44	Pass
44	Pass	54	Pass
55	Pass	Pass	Pass

The bidding was filled with close decisions. Secan's decision to pass in first seat is very close. With a singleton spade and bad suit to open, his pass was a good choice. 1NT showed 15-17. Soloway decided not to overcall his six-card suit, hoping to get another chance in order to suggest a weak hand with a decent suit. 20 was a transfer to hearts; the 22 bid showed three hearts. The club bids were natural and 44 was a cue-bid. Going past game was very dangerous, but Secan knew of the double fit. Still, with bad hearts and a probable 5-3 fit only in hearts, slam is fairly unlikely, and he had already described his hand. Dinkin should really have played him for 6-5 and a spade void, but since they were not a regular partnership, discretion took the better part of valor and they stopped only a little too high. At least Secan's actions were consistent, trying for slam from the very beginning. A better idea, once the opponents' spade fit had been uncovered, would be to focus on what to do if they save in 44. A 44 bid instead of 34 would convey to partner: I have a two-suiter in the rounds with game values. If they saved over 44, then, hopefully, partner would know when to go on. But, the play's the thing.

Soloway led the 07. The choice was a good one. Even though spades rated to be stronger, he knew that his side had too many spades for them to cash any. Dinkin won the first trick, cashed the trump Ace and crossed to the board with a spade. Not having second sight, he lost a trump finesse to the Queen. The defense continued with two rounds of diamonds, declarer pitching a club from dummy while Soloway shed a spade.

The hand now depends on finding the ♠Q. Since the scoring was IMPs, declarer judged well to embark on a voyage of discovery to try to find out the distribution of the hand. To this end, he ruffed a spade, drew the last trump, and ruffed his last spade.

Now he could claim. Seligman had shown up with three spades, three hearts, and six diamonds, so he could have at most one club. Dinkin cashed the ♠K and took the marked finesse against the ♠Q to make his contract. Nicely played.

The Caltech Bridge Club meets every Monday night at 7:15 in Winnett Lounge. Everybody is welcome; call Jeff Goldsmith at x2818 for details.

U. Survey

The last issue of *U. the National College Newspaper* is being delivered this week to the student houses.

Should the *Tech* continue to distribute *U.* next year?

Send your answer: YES, NO, or NO PREFERENCE, and any comments, by e-mail to u@tech.caltech.edu or by campus mail to

U. Survey
California Tech Newspaper
40-58 SAC

continued from page 1

Steps

(particularly Dianne Feinstein and Barbara Boxer) were lambasted during a parody of the Beach Boys hit "California Girls." The Buttafuocos won the Hardest Name to Rhyme Award. Yeltsin was the previous winner. Mario Cuomo's decision not to accept a Supreme Court nomination and Senator Packwood's sexual improprieties each had their own skit. Even David Duke was mentioned in a one-liner.

In addition to the political personalities, the Steps also discussed the issues. In one scene, Clinton, with sax and leather jacket, and Al Gore, walking as a rigid robot, discuss their perfect looks. Bill pulls out a bottle of hair spray, and Al then becomes environmental man. They duke it out over the right to perfect hair versus the ozone-damaging spray. In what could be a sign of things to come, Bill wins.

They also spoofed three of Clinton's thorniest problems, the day care situation, the need for medical reform, and gays in the military. The hippies who are now yuppies and no longer fight for causes were ridiculed in a parody of Bob Dylan's "Like a Rolling Stone," entitled, "Suburban Drone." The show ended with a tribute to Clinton, his friends from Arkansas, and the culture (or lack thereof) in that state.

Everyone enjoyed the show. During the intermission, when cassette tapes were sold, the Capitol Steps' newest recording, "The Joy of Sax," sold out within minutes. After the show, all of the comments were positive. One couple, who had seen the Steps previously, noted that the show

had kept pace with the times—the day care crisis skit, one of their favorites, had been updated to include the "Nannygate" incident. In what is perhaps the best comment on the Steps' appeal, the couple plans on seeing the Steps again when they return to Caltech in 1994.



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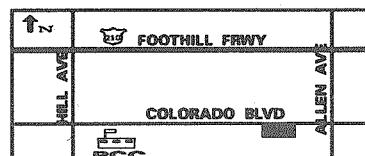
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* Note: asterisks indicate new announcements.

Notices

1993-94 H&SS Course Schedules

Preliminary schedules of courses to be taught in the Humanities and Social Sciences during the 1993-94 academic year are available in 228 Baxter.

New Telephone Prefix—effective July 1, 1993, the telephone prefix for all campus offices will be 395 (formerly 356 or 397). All data lines, fax numbers, and private phones are not part of the campus switchboard, and are not affected by this change.

Events and Services

WISE Annual Luncheon—Women In Science & Engineering (WISE) invites you to its annual luncheon, in Dabney Gardens, noon Tuesday May 18. Visiting Professor Barbara Cuker will speak on "Experiences of Women in Non-Traditional Occupations" and lunch will be provided gratis. The event is co-sponsored by the GSC and the Caltech Y. All women and men in the community are invited. If you'd like to attend, please assist our planning by sending email to steele@vlsi or calling Craig Steele, x4840. If you don't come anyway, but don't blame us if your favorite bagelwich is gone. Bring your friends! Info: Craig S. Steele, steele@vlsi.caltech.edu Caltech 256-80, Pasadena, CA 91125

Club Premed—There will be a meeting for Juniors on how to write a personal statement for their medical school applications. Dr. Coleman will be giving advice, ideas, and suggestions. The meeting will be held on Monday, May 17 from noon till 1 P.M. in the Health Center conference room.

BOOK SALE—Friday, May 21, 8:30 A.M. to 2:30 P.M. in Dabney Lounge (enter through Dabney Garden). Don't miss this once-a-year opportunity to buy books at super bargain prices! Sponsored by FOCAL (Friends of Caltech Libraries).

Caltech Velo—The Caltech Bicycle Club meets Thursday, May 13 at 8 P.M. in Winnett Lounge. The club organizes all types of rides, both road and off-road rides, for all skill levels, from novice to advanced, including collegiate racing. All cyclists welcome. We lead the following weekly rides, all meet in front of Winnett Lounge: Monday 5:00 P.M.: about 20 moderate paced road miles; Tuesday 3:15 P.M.: various off-road rides; Wednesday 7:00 A.M.: about 20 hard hilly road miles; Friday 8:15 A.M.: about 15 easy road miles, mtn bikes welcome. Rides leave at the time listed, so please arrive a few minutes early. Info: Michael Kantner x4882 or kantner@hot.caltech.edu (email).

Therapy Group for Caltech students who grew up in dysfunctional families has openings for new members. The group examines the impact of familial abuse, alcoholism, and other serious difficulties on one's current relationships and self-image. Must be able to meet through the majority of the summer. Info: Aimee Ellicott, Ph.D. or Glenn Maarse, M.A. at the Student Counseling Center x8331.

Gay, Lesbian & Bisexual Support Group—Meets the first and third Tuesdays at 7:30 P.M. in the Health Center lounge. This confidential meeting is open to all members of the Caltech community looking for a supportive context in which to address questions and concerns about sexual orientation - including coming out, being out, self-discovering, coping with families... We begin with a focus topic, but move to whatever is feeling most relevant to the group that night. Refreshments are served. For information, please call 356-8331.

Caltech Y ExComm Meeting—The Y

Events and Notices

invites anyone who wishes to cosponsor an event to attend on the first or third Monday of each month.

Caltech Hillel/Jewish Community Weekly Meeting—An informal gathering every Thursday at noon in the Y lounge. For information call Caty Konigsberg at (213) 259-2959.

Friday Prayer—Prayers organized by Caltech Muslim Students are held in the Caltech Y lounge at 1:30 P.M. every Friday.

Mass—Thursday at 8:15 in the Y lounge and Sunday at 10 A.M. in Winnett lounge. Sacrament of Reconciliation (confession) is given 20 minutes before masses. Refreshments are served after mass.

Bible Study and Discussion—Every Wednesday at noon in the Y lounge. Bring your own lunch. For more information call Mike Gerfen at 356-4886.

Open Line—Open Line meets every Tuesday in the Y lounge upstairs during lunch, between 11:30 and 1:00. Topics discussed include developing a youth center for ages 5-12 for tutoring services, activities and cultural development for the children of Caltech students, staff and faculty, developing a multicultural book for the understanding of all nationalities, traditions and customs. Open to all of the Caltech community.

OpenLine is planning a trip to the **Museum of Tolerance** on May 16, 1993. (NOTE: The date was accidentally given in last week's *Eden* as April 16. Note the corrected date.) We invite you to come along, and hope you'll bring a friend or two. The cost is approximately \$6, and carpools are forming. If you need a ride or can give a ride, let Gary Mines know. Also, if you have any comments or questions about the Museum, or about the group OpenLine, give Gary a call at x6542, or 577-7816.

LA '93 One year later...what has changed?—an open community forum sponsored by OpenLine. Our panel will include Honorable Rick Cole (Mayor of Pasadena), Shirley Adams (The Urban League), Kathy Imahara (Asian Legal Center), Dr. William Dillard (Pastor, 2nd Baptist Church), Wilbur Smith (Pasadena School District), Oscar Palmer, maybe more. Introductory remarks by Provost Paul Jennings, panel to be moderated by Dr. Alex Norman. Open to all, and your opinions and ideas are welcome. Discussion will focus on what has and has not changed since the rioting of last year; what is the pulse of government; how have the police changed; are they prepared to address problems constructively and effectively; what is the response of education, of the Caltech community in particular? Come voice your opinion. May 19, 1993, Winnett Student Center Lounge, from 11:30 A.M. to 2 P.M.

Baby Furniture Pool—The Caltech Service League loans out baby furniture to students and postdocs on Wednesday at 324 S. Chester from 10 to 11 A.M. For more information call 952-1631.

Entertainment

Masters of Magic and Mystery, featuring Jeff Martin and Ed Alonzo, will be presented on Saturday, May 22, at 2 P.M. in Caltech's Beckman Auditorium. This is a 60-minute Family Faire presentation designed especially for children and their families. Tickets: \$8.50 adults, \$4.50 children; available at the Caltech Ticket Office

and all Ticketmaster Ticket Centers (call (213) 480-3232). Info: x4652 (V/TDD x4688).

The Ethnic Visions film Series continues with *Mississippi Masala*, Monday, May 17, at 7:30 P.M. in Baxter Lecture Hall. *To Sleep With Anger*, originally to be shown this night, will be shown the following week, May 24, with writer/director Charles Burnett present to introduce the film and lead a discussion. *Mississippi Masala* is a lively, sexy story about the heat generated when different races and cultures collide. Starring award-winning Denzel Washington and newcomer Sarita Choudhury. Open to the Caltech community.

Occidental-Caltech Symphony—performed by Caltech and Occidental Glee Clubs, to include Mozart's "Mass in C Minor" and Liszt's "Les Preludes." Features Allen Robert Gross, conducting, Holly Ristuccia, soprano, Gloria Prosper, soprano, Benjamin Reckdahl, tenor, and Dean Elzinga, bass. Tuesday, May 18, at 8 P.M. at St. Philip the Apostle, Hill St. South of Green, Pasadena. Thursday, May 20, at 8 P.M. at Thorne Hall, Occidental College. Info: x4652. Free Admission.

Chamber Music at Noon—Friday, May 14 1993 in Dabney Lounge. Admission is free and lunch will be served. Played by Caltech students. Features works of Telemann, Mozart and Beethoven.

An Evening of Chamber Music—Saturday, May 15, 1993 in Dabney Lounge at 8 P.M. Admission is free, reception after the concert. Features works of Haydn, Borem, Stravinsky, and Beethoven. Info: Call x4652 (x4688 V/TDD).

Angela String Quartet with Carol Winnecke—This Coleman Chamber Music Concert features works of Mozart (String Quartet in F major, K. 168), Beethoven, and Brahms. Sunday May 16, 1993 at 3:30 P.M. Admission: \$12.00-18.00-15.00-12.00; students: \$4.00 off. Info: x4652 (V/TDD x4688).

The Pasadena Folkdance Co-op offers beginning and intermediate instruction every Friday at 7:45 P.M. in Throop Unitarian Church on the corner of Los Robles and Del Mar. A program of varied international dances follows the instruction at 9:00 and continues until 11:00. Wear soft-soled shoes. A contribution of \$1.50 is requested.

International Folk Dancing—Tuesday nights in the Dabney Lounge. Beginning instruction starts at 7:30 P.M.; intermediate at 8:00 P.M. and open dancing takes place from 9:00 until midnight. Donations are accepted. For more information call Mike McKenna at (310) 692-0366.

Israeli Folk Dancing—Sundays in Winnett lounge, Beginning instruction starts at 7:30 P.M., intermediate at 8:00 and open dancing goes on from 8:30 to 10:30. For information call Nancy Macmillan at 795-3655. Admission is \$2.00.

Scottish Country Dancing—On Wednesdays in Dabney Lounge from 8 until 10 P.M. Beginners are welcome and no partners are needed. For more information call David Hills at 354-8741.

Music with James Boyk—Pianist James Boyk gives a performance each Wednesday from 4:30 to 6 P.M. in Dabney Lounge. The performance is open to the public and free of charge. Feel free to come late or leave early. For more information call x3535.

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Planetary Society—College Fellowship Awards—Undergraduates majoring in science or engineering may apply for one of up to five grants of up to \$1,000 each. Each applicant must be a member of the Planetary Society or be nominated by a member. Fellowships will be awarded on the basis of scholastic achievement, commitment to a career in engineering or a planetary-related science, and a 2,500 word essay on a relevant topic. Deadline is May 17.

The Jewish Family and Children's Services announces the availability of financial support for Jewish individuals and their families. Students may apply for aid by mailing the questionnaire to the JFCS office or calling Ted Schrieber at (415) 561-1226 to receive an application. There are no deadlines and students may apply throughout the year.

The John Gyles Education Fund is offering financial assistance to students in both Canada and the United States. Effective March 1st selected students will receive up to \$2500.00. Deadlines vary. A minimum GPA of 2.7 is required. For details and an application send a self-addressed, stamped (US \$2.29) No. 10 envelope to, The John Gyles Education Fund, Attention: R. James Cougle, Administrator, P.O. Box 4808, 712 Riverside Drive, Fredericton, New Brunswick, Canada E3B 5C4.

For details on the following, please contact the Financial Aid Office.

Summer Work-Study—Information and applications for 1993 Summer Work-Study are available in the Financial Aid Office. If you are interested in Summer Work-Study, please submit the required application as soon as possible, but no later than June 1, 1993. Your entire financial aid application must be completed by June 1 to be considered. Summer Work-Study determinations will be announced as completed applications are reviewed. If awarded, the work-study funding will begin with the July 5th payroll period.

Applications are now available for the **National Hispanic Scholarship Fund**. Students must be U.S. citizen or permanent residents of Hispanic parentage, who has completed at least fifteen units of college work prior to submission of this application. Students must be enrolled in college for the Fall of 1993 and enrolled in attendance through the Spring of 1994 as full-time, day-time students. The postmark deadline is June 15, 1993.

The 1993 **Society of Consumer Affairs Professionals in Business (SOCAP)** applications are now available. Individuals planning to work in business, academic, government, or media positions are encouraged to apply. Completed applications must be received by July 1, 1993.

Hot and Throbbing

Rivet—Planning has begun for this year's low-budget edition of the *Hot, Throbbing Rivet*, Caltech's very own compendium of humor and bad taste. The *Rivet*, which will come out as the year's last Tech, is widely respected in the publishing world, and resembles the *Nothing*, except that it doesn't suck. For more information on how you can cop the hot, throbbing action, contact the Tech office by campus mail or by e-mailing to editors@tech.caltech.edu.



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