

You look like  
you been  
whipped with  
an ugly stick.  
—B. Diddley

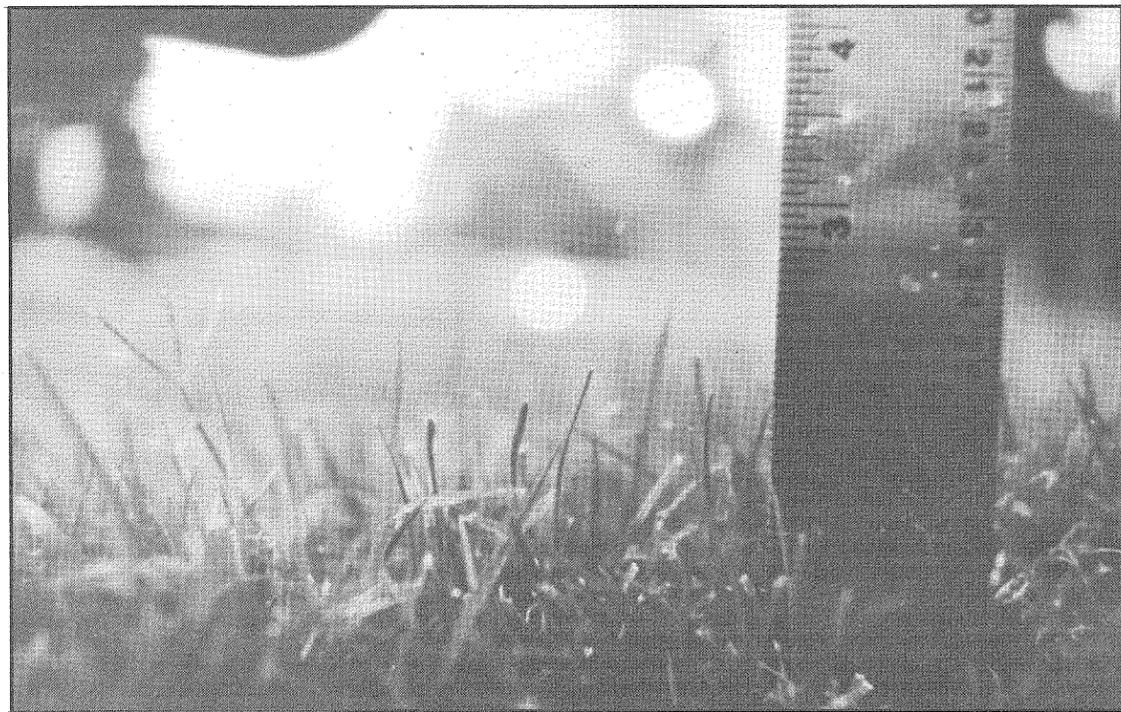
# The California Tech

The Tech is  
Balinese  
—D. Fagen

Volume XCIV, Number 29

Pasadena, California

Friday, May 28, 1993



Record grass growth of over one inch was documented this week. It is believed to be caused by the new coat of manure gracing Caltech's lawns.

## Ditch Day Intrigue in Page House

by Michael Brundage

*Editor's note: Michael Brundage was the only person to respond to our request for stories about interesting Ditch Day stacks. We were so impressed with his story that we decided to share it with our readers.*

On Ditch Day, about twelve people worked on Win Chamberlain's stack, entitled "The Rose." A week or so before, I had received a letter in the mail. It was devoid of return address or other curious marks; it had only my address, in San Francisco font on the front, and an Elvis stamp (post-marked L.A. County) in the upper right hand corner. When I opened it, inside were a bunch of dried rose petals and a letter which read (in the same font):

COLD STEEL IS SHARPER  
THAN OBSESSION.

As BOC Chair, I'm sure I've pissed a few people off, but this was really interesting. I went to ask Mike [Nassir] and Nate [Frei] what they thought, and they both said, "It's clearly a death threat," etc., and played up the threat side so much I knew it had to be related to Ditch Day. Then I asked Jennifer Trittschuh, and sure enough, several other people had gotten similar letters, containing equally cryptic messages inside (with the same Elvis stamp, because Win is House Elvis, and the same rose petals, because of the stack's theme.)

On Ditch Day morning, Win's door was gone; in its place was an archway of about ten cabinets, each with a lock (except for a speaker

cabinet in the upper left), and in the center was a large slab of wood. Presumably, we would find keys to open each of the cabinets, and somehow this would enable us to move the plank of wood preventing our entrance.

A large knife covered with "blood" was stuck in the doorway, and there was a box on the ground containing a video tape, an envelope, and a rule sheet. We watched the video tape first (as per instructions)—it was really cool. This old, retired Interpol agent (portrayed by Win's father) told us of his life-long chase for one Alexander Budreau, a.k.a. Peter Heinrich, a.k.a. Lafayette. He spoke to us for about fifteen minutes, detailing the search, and from these details we gathered that Alexander Budreau was after him, that Alex had married one Isabella de la Rosa, that Isabella had soon after died in a car crash, leaving Alex to collect on a ten million dollar life insurance policy, and that Alex always leaves a single, red rose at the scene of a crime he has committed—and there was a rose found in the car. Then there was a ten minute video scene in which Isabella (portrayed by Win's girlfriend Peggy) and Alexander (portrayed by Sonn, one of Win's friends from high school) enacted these things for us.

And so we began. Our first clue led us to the Court of Man. We looked around, until I saw Peggy up on the top of BBB. (It turns out that this was totally unexpected. Oh well!) We all turned to look, and suddenly Win appears, brandishing a long bow. He fired a flaming arrow right into the center of the

Court of Man, and then took off. At this point, we grabbed the arrow and ran for the rooftop of BBB. In doing so, we inadvertently ruined the whole stack. (We were supposed to notice that there was a key inside the alcohol-soaked cloth on the arrow.) As coincidence had it, the next-to-last clue (an empty wine bottle with a black line on its label, and a red cooler with a video tape duct taped to the outside) was there on the roof. We went to the Dean's Office, watched the tape (which has Jenny, Sonn's girlfriend, telling us how it's been a long day and "Every stack should have a coke," even though it's only about 9:30 A.M.), then opened the cooler and had some cokes. Taped to the bottom of my coke was a key, so we figured we had the next clue and could proceed. We get back to the

ROSE, page 4

## Chen Wins Wilts Prize

by Debbie McGougan

Tsuan Chen, Ph.D. student in Electrical Engineering, has just won the prestigious Charles Wilts Prize for his outstanding dissertation on "Multidimensional Multirate Filters and Filter Banks: Theory, Design and Implementation." This prize is awarded yearly and comes consists of a \$500 honorarium and a certificate. It was established to recognize creative and independent research leading to a Ph.D.

## Everhart Honored with UCLA Award

by Caltech Public Relations

Dr. Thomas Everhart, president of the California Institute of Technology, will be honored with the Professional Achievement Award in an upcoming UCLA Alumni Awards ceremony on Saturday, June 12, in Royce Hall on the UCLA campus.

"It's a great honor to be recognized by one's *alma mater* for a career devoted to the advancement of education and knowledge," said Dr. Everhart. "I attended UCLA as a three-quarter-time graduate student while working 25 hours per week at Hughes Research Labs. Balancing industrial research with graduate studies provided both a stimulating environment and an interesting perspective. Both were helpful to my future development."

Dr. Everhart received his M.Sc.

in applied physics from UCLA in 1955, after receiving his A.B. in physics from Harvard. In 1987 he became president of Caltech, as well as professor of electrical engineering and applied physics, at the Institute.

In addition to his academic role at Caltech, Dr. Everhart currently is on the board of directors for General Motors, Hewlett-Packard, the Corporation for National Research Initiatives, and KCET. He has been a member of the National Academy of Engineering (NAE) since 1978 and has served on the NAE Council since 1988. He also serves as a vice chairman of the Council on Competitiveness.

The hallmark of each Professional Achievement Award recipient is a sterling record of distinguished career accomplishments, complemented by outstanding contributions to their profession.

## Technology, Jobs, and Change

by Michael Kantner

On Wednesday, May 26, Dr. Allen E. Puckett, chairman emeritus of Hughes Aircraft Company and Caltech graduate, lectured on the effects of technology on society. The talk, entitled "Technology, Industry, and Jobs," discussed how advancing technology changes the social fabric of the world.

Historians have categorized societies into 3 generic groups: stone age, bronze age, and iron age. The

advancement from one group to the next has been due to technology. The change that technology brings has been unstoppable. New technology quickly becomes a necessity of life.

For example, when Columbus discovered America in 1492, he found a stone age society. The Native Americans, however, quickly embraced the new, metal tools that the Europeans brought. When Lewis and Clark explored in the Louisiana Purchase in 1804,

CHANGE, page 4

## McKelvey Elected to NAS

by Caltech Public Relations

Caltech political scientist Richard McKelvey has received the honor of election to the National Academy of Sciences. Such election is considered to be one of the most significant honors that can be given an American scientist. The NAS, a private organization of scientists and engineers incorporated by Congress in 1863, acts as an official adviser to the federal government on matters of science and technology.

McKelvey's research includes

the areas of group decision making, voting behavior and elections, game theory, and the theory of political decisions. For example, he is now researching differences between voters' reception of stable economic policies made by planners and "cyclical" policies made by the political process.

McKelvey earned his undergraduate degree at Oberlin College and his doctorate at the University of Rochester; he joined the Caltech faculty in 1979. McKelvey is the sixty-fifth NAS member among the faculty.

Be on the track at 8:45 A.M. this Saturday  
to face the monster that is

## KELROF

KELROF is a 24-hour relay race, held annually since 1977. Teams must have between two and ten members. Each person on a team runs one mile at a time. If you don't belong to a team already, teams will be assembled before the race.

The race starts at 9 A.M. Free food will be provided.

The ASCIT elections for Senior Class President, Senior Class Secretary/Treasurer, Junior Class President, and Junior Class Secretary/Treasurer will be next Tuesday, June 1. Voting on the proposed ASCIT and BOC bylaw changes will be at the same time.

## The California Tech

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# letters to the editor

## More Rat Debate

I would like to respond that your reply regarding Lisa Vencill's letter about the use of live animals in ditch day. Saying "it's just a rat" echoes the Nazis saying "it's only a Jew," or a planation owner saying "it's only a slave." This may seem extreme but one thing they all have in common... the capacity for fear and pain.

Cheryl Hanson  
12-63

## Berger Responds

The rat has been upheld since antiquity as the noblest of animals. Life-size (or even larger) portraits of *Rattus Norvegicus* have been discovered on the pharaohs' tombs, and a beautiful rat (known as Marianne) appeared to the French as the patroness of their Revolution—and let us not forget the part rats played in the cleansing ravages of 14th-century Europe. I, therefore, as a Jew, am honored to be compared to a rat, and I am sure the descendants of slaves feel the same honor at the comparison.

Zackary Berger

## More T.A. Dating

Handwritten Hebrew text, likely a letter or commentary related to the 'More T.A. Dating' section.

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Please send letters to the editor to *The California Tech*, Caltech 40-58, Pasadena, CA 91125, or by e-mail to editors@tech.caltech.edu. *The Tech* reserves the right to edit all letters for brevity or otherwise, and to refuse to print any letter for any reason. We are prepared to accept letters written in English, Chinese, French, German, Japanese, Russian, Spanish, or Yiddish. If you are planning to submit in some other language, please contact us beforehand.



Ernest Tomlinson

# Ernest Explains

Dear Ernest:  
Your column is great. It is an island of sanity in an ocean of rat-hating Nazis who lack the capacity for fear and pain, emotions which any non-monstrous living creature should possess if they have any respect for the supreme Maker who created them. What I want to know is, what is malt? Does it, like the rat, have the capacity for fear or pain? The well-being of beer drinkers everywhere is riding on this, so I hope you can answer my question.

—G.E. in P.R.

Dear Gerry:  
"Malt" is the trade name of 3,2 ditryptychhexamondotractyrpullene, a chemical produced by the Dow Corporation. It was first used as an abrasive for cleaning barnacles from ships, until a famished dock worker ate some malt and discovered that it was also a tasty treat. Malt is now a staple of the frozen dessert industry.

Dear Ernest:  
What is the density of aluminum?  
—Pete in Chemistry

Dear Pete:  
The density of aluminum has a long and colorful history. Until aluminum (or, as it was then called, "alunibar") was discovered by the Babylonians c. 4350 B.C., its density was not known. According to the ancient historian Herodotus, the first aluminum samples were "pretty light." Later, the Macedonians used a value of four stones per cubic cubit when engineering with "αλυμνος" during the reign of Alexander. Aluminum was first purified by Sir Humphrey Davey in 1856, and was first made into foil in 1945, during research for the Manhattan Project at the University of Chicago. The modern accepted value for the density of aluminum is 2.9 grams per cc.



## THIS MODERN WORLD by TOM TOMORROW

A comic strip titled 'THIS MODERN WORLD' by Tom Tomorrow. It consists of several panels showing a woman named Ruth and a man on a road trip. The panels include dialogue such as 'DID TOO!', 'DID NOT!', 'UH HUH!', 'WHAT ARE YOU WATCHING, SPARKY -- "ROMPER ROOM"?', 'NO -- "CROSSFIRE"...', 'LIAR, LIAR, TOMORROW PARTS ON FIRE --', 'I'M RUBBER, YOU'RE GLUE --', 'Today we stopped in Cave City, Kentucky.', 'Ruth bought a postcard to send to Steve back home.', 'What should I say?' she asked me.', 'I said I don't know, and she stood there staring at the card.', 'Today we drove up the South Carolina coastline.', 'We stopped and ate at some beaches along the way.', 'This is beautiful,' Ruth said.', 'At one stop we watched some jet fighters put on an air show.', 'We went on some of the Washington DC tours today.', 'We saw the White House, the capitol, and the Washington Monument.', 'I can't even remember all the things we saw.', 'After our tours we relaxed by the water and agreed that going on tours is pretty tiring.', 'Today Ruth and I got to New York City.', 'In Manhattan, it seemed like we were the only car that wasn't a taxi or limousine.'

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**Jim's Journal**  
Ruth was really nervous driving, "because the other cars are so rude," she said.  
by Jim  
Along the way, we noticed a funny parking sign.

**Pete's GRANDBURGER**  
THE ORIGINAL established in LA since 1950  
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*The California Tech*  
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EDITORS  
Michael "Starchild" Benedetti  
Chris "Godot" DuPuis  
Michael "1800's, more like" Radford

CRIME BEAT EDITOR  
Gypsy Achong

EVENTS & NOTICES EDITOR  
Jeff Denniston

WORLD NEWS EDITOR  
Momo Jeng

PHOTOGRAPHER  
Anoop Sinha

WRITERS  
Zackary Dov Berger  
Michael Brundage  
Michael Kantner

BUSINESS MANAGER  
Chris Echols

CIRCULATION  
Wei Lin

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

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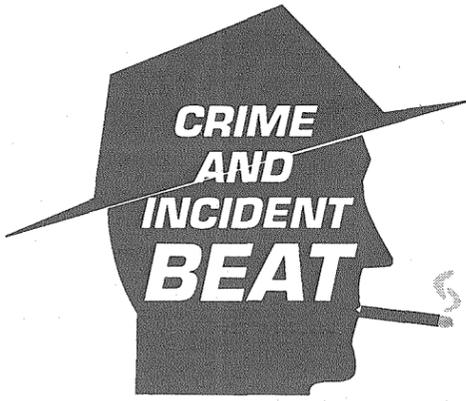
Letters and announcements are welcome. All contributions should include the author's name and phone number and the intended date of publication. The editors reserve the right to abridge and edit all submissions for literacy, expediency, etc.

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 drivers: Please do not leave the old motor oil drained from your cars at random spots around campus. Pep Boys at 1135 E. Colorado Blvd. will take the old oil.

To all women: Beware of possible harassment by a man of the following description: White male in his 50s, 5'10", 260 lbs., white beard and shoulder length white hair. He seems to have a card to enter Millikan during restricted hours (see story below).

5/12 1:10-6:00 P.M. A member of faculty parked his vehicle in the Blacker parking lot and left his sunroof open. Someone apparently reached in and stole his cellular phone from in between the front seats of his vehicle. There were no signs of a forced entry. PPD and LA cellular telephone service were notified. \$600

5/20-21 7:00-8:00 P.M. Someone threw paint remover on a member of staff's car which was parked in the West Wilson parking lot. The paint on the trunk lid and rear quarter panel was damaged.

5/21-24 6:00 A.M.-11:00 A.M. Two AM/FM radio/cassette players are missing from the Children's Center. The radios were not locked away and numerous windowlocks are left open after hours due to paint build up. There was no evidence of a forced entry. \$138

5/22 3:30-4:30 P.M. A female undergraduate was approached by a man of the above description in Millikan library. He asked her for change for a bill. She then left the library. An hour later she met him again in the computer room of the SAC. He asked her for a date and when she refused he mentioned that he had been turned down before by other Caltech women. A search of the UG housing area and the surrounds was made but the suspect could not be located.

5/22-23 12:00-5:30 P.M. Someone entered an undergrad's vehicle through the rear window which was left open. Some personal belongings were removed. The car was in the Blacker parking lot. \$365

5/24 4:23 P.M. Someone notified security that a man was walking around the BBB parking area looking into cars. A search was made but the suspect was not found in this area. The search was extended to other lots and the man was eventually located in the West Wilson parking lot. He was stopped, interviewed and notified that he was trespassing on private property.

5/25 1:00-2:00 P.M. An outside plumbing contractor that was doing some work for Caltech left his box of plumbing materials on the Firestone loading dock. He left the loading dock to go to Physical Plant and when he returned his box was gone. Pasadena Police were notified. \$50

This week's total: \$1153

**Abkhazia**

Abkhazian and Georgian forces accused each other of violating the new cease-fire agreement.

**Afghanistan**

Defense Minister Ahmed Shah Masoud agreed to resign under a cease-fire plan. Prime Minister-designate Gulbuddin Hekamatyar continued to attack the capital, despite the concession.

**Angola**

Clinton recognized the democratically-elected government of Jose Eduardo dos Santos, reversing a U.S. policy of support for the UNITA rebels.

The peace talks between the Angolan government and UNITA in Abidjan broke up.

**Bosnia-Herzegovina**

After the Bosnian Serbs rejected the Vance-Owen peace plan, the U.S. and other NATO members came up with a new "Joint Action Program," which would create safe zones for Muslims, but does not attempt to make Serbia give up its newly acquired territory. Serbians expressed support for the plan, while Bosnians rejected it. The Muslim countries in the U.N. issued a statement criticizing the plan. Serbian rebels have conquered almost 70% of Bosnia.

**Cambodia**

Cambodian 6-day elections began under the protection of over 10,000 U.N. troops. Despite threats from the Maoist Khmer Rouge rebels to disrupt the elections, over 65% of the registered voters showed up. These were the first free, multi-party elections in over 40 years.

**Europe**

The European Court of Justice ruled that national postal authorities can't forbid competitors from offering services which the national government doesn't provide.

**Germany**

Germany's Constitutional Court considered arguments that Germany's new abortion law, which lifts most restrictions on abortions during the first trimester was an



unconstitutional violation of the rights of the unborn. A decision is expected Friday.

**Israel**

Two squads of Israeli paratroopers mistook each other for guerillas and fought each other. Four were killed and three were wounded.

**Japan**

A Louisiana Jury found Ronald Pearis not guilty of manslaughter, saying that he acted in self-defense when he shot Yoshihiro Hattori, a Japanese exchange student who knocked on the wrong door looking for a party. Japanese papers were angered both by the acquittal, and the applause in the courtroom after the verdict was announced. They pointed out the cultural gap between the two countries regarding firearms. In Japan, firearms are illegal, and 87 Japanese were murdered by handguns in 1990, while in the U.S. one in every three households has a gun, and there were 10,567 handgun murders in the same year.

Japan's Securities and Exchange Surveillance Commission accused two people of manipulating stock prices. This is the first criminal charge it has made since it was formed 10 months ago.

**Russia**

Ukrainian Defense Minister Konstantin Morozov said that he would cut funds to ships of the former Soviet Black Sea Fleet if they flew the Russian flag. Some officers responded by flying the Russian flag on 115 of the 380 ships. The status of the fleet is still uncertain. After the breakup of the Soviet Union, both Russia and the Ukraine claimed the fleet as their own, and agreed to share the fleet

until an agreement could be reached.

**Saudi Arabia**

Saudi Arabia's first human rights group was outlawed, and its spokesman was arrested, drawing international criticism. The group was formed about a month ago, and had 10,000 supporters.

**South Africa**

Members of the African National Congress and the Inkatha Freedom Party fought. 13 were killed and 61 wounded.

**Ukraine**

Prime Minister Leonid Kuchma resigned after groups in Parliament and President Leonid Kravchuk resisted his request for an extension of his emergency powers. Kuchma asked President Kravchuk, a former top Communist, to take over the government.

**United Kingdom**

The House of Commons passed the Maastricht treaty, which increases political and economic unity between the twelve members of the EC, and is seen by many as a step toward unification. The treaty was sent to the House of Lords, which is expected to pass it. The United Kingdom is the only of the 12 countries in the EC which has not yet ratified the treaty.

**United States**

"Cheers" ended. A Michigan judge declared the state law against assisted suicide unconstitutional, saying that it was passed without a public hearing and had more than one objective.

The House Judiciary Committee approved the Freedom of Choice act 20-15. The bill is designed to guarantee abortion rights.

**Venezuela**

The Venezuelan Supreme Court indicted President Carlos Andres Perez, accusing him of corruption. The Senate voted unanimously to suspend Perez and have him tried by the court. Senate President Octavio Lepage is the acting president until disputes over succession are settled.

**ynews**

by Sam Webb

Hello again from the desk of the Caltech Y. Phantom tickets are now in. They're for Sunday, May 30th at 2 P.M. If you're interested, stop by the Y quick, they'll be going fast. As the term ends soon, once again Decompression approaches. It will be on June 5th and 6th, so watch for the sign-ups in the houses. If you will be at Tech for the summer and you're interested in being a part of the wonderful Caltech Y Summer Excomm, talk to me or Chris at x6163. The first meeting will be on June 14th. To wrap this week's news up, everyone at the Y would like to give our best to Loey and Andy who will be married this weekend on the 29th!

Next week: the eminently cappable, Hot, Throbbing

**RIVET**

Due to a small budget and an even smaller staff, next week's Rivet will be only four pages. There will be a limited number of special Rivet supplements available. You may receive one upon request, but be warned—the supplement will be full of offensive, wacky commentary on undergraduate life at Tech.

To receive your supplement, write or e-mail us ASAP.  
Note: All undergrads will receive a supplement.

**Write for the Tech.**

The second-to-last weekly California Tech meeting will be today at 12:15 in the Coffeehouse. Free pizza and beverages will be served.

**DELIVERY SPECIAL**

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(818) 795-5443  
No Appointment Needed

continued from page 1

## Rose

room, and there's a note saying, "Win called. You guys screwed up big time." Uh oh! But we had just started! So we spent some time calling Win and fixing things. It also turned out that each key opened more than one cabinet (much to Win's surprise) and so that was a problem also. To make a long story short, things worked out, and we did a lot of different things for the rest of the day. We went to a Credit Union on Colorado (4th floor, very nice) to verify the insurance statement; we went to the Chapel of Roses to verify the marriage certificate. We decoded a strand of DNA to get the Roman numeral 1966—which my roommate (Brian McAllister) immediately recognized as the date Millikan library was dedicated—sure enough, there was a key, taped to the big 1966 on the side of the library. We found a wine bottle containing half of a letter from Alex's lover to his wife in a toilet in Dabney Lounge. We drove to Jenny's house to pick up another clue; we found another key in the change slot of a pay phone. It was all a lot of fun, but because of our blunders earlier in the day, we were running behind.

As the day drew near a close, we still had three things to follow up on. We had the lima beans which we discovered spelled "Rosemead," "#," "23," "25," and "68." We had the directions to a house on Michilinda, and we had the instructions to go to the North end of Lake Ave. and wander around in the horse trails up there. So we went north on Lake until it ended, and walked around (there were lots of snakes everywhere). We found a rose on the ground (but not the shovel in the bushes a few yards away, unfortunately), and dug down about a foot to find a first aid kit. Inside was another rose, a lot of ashes, and the bracelet Isabella had been wearing in the videos. Hmm. By now we're thinking maybe she isn't dead after all.

Hurrying, we next went to the Rosemead address. By luck, the

first combination of numbers we tried was the right one, and inside we found Deana Rios, formerly Alex's lover—she gave us Alex's jacket (containing another key) and promised to testify in court if we could guarantee her safety. We said yes and thanks, and went to our final address. We had two boxes left closed back at Tech—so hopefully we'd get the final key at this place.

We were in two cars, and one got there first. Our car arrived second, and Jennifer immediately said, "Guys, I have a bad feeling about this—maybe we should wait behind." Some of us decided to throw caution to the wind, and ran on ahead. Inside was an open door, with a sign "Come in." We went in, and found the others out back on the patio. There were signs up saying, "Shh, be quiet," so we did. Below us in the yard by the pool, who did we see (wearing a tux and dress), but Alexander Budreau and Isabella de la Rosa! So she was alive! The insurance thing was all a scam! We watched and listened as they talked. Then, Alex said, "Well, I just have one thing left to say, Isabella." With that, he drew a pistol (not a watergun) out of his jacket pocket, shot her six times, and then ran away, leaping over a fence.

By the time our minds caught up with what was happening, three agents dressed in dark suits and shades, and carrying large guns (again, not water guns) stepped out of the house, and said, "Freeze, you're under arrest for murder." They made us kneel on the ground with our hands behind our heads, and showed us pictures of Deana Rios, lying in the middle of her kitchen floor, wearing the same outfit we'd seen her in only minutes before, holding the wine bottle we had brought her as a gift—and covered with blood, evidently brutally murdered in her own home. The agents read us our rights, and chained us up in a line with handcuffs. Then they searched the area, finding Isabella dead in her lawn chair (and a key on her person). Then, they offered to let us speak without our attorneys present, and some of us decided to

do so, rather than get taken away to jail. After telling them everything we had learned, and showing them some of the evidence we had gathered, they decided to take us back to Tech, to see this "Room 115." (Incidentally, those who hung back found some guns—unloaded—in the garage. They also heard Alex and Isabella talking, so decided to try and catch him. Just as he leaped over the fence, Jason Kumar levelled his gun at Alex, and chased after him some. Alex later said, "There I was, running away like we had planned, and these people with guns were suddenly chasing me!")

We all piled into three cars now, and drove back to Tech. We saw Kim West when we arrived, and actually had her thinking we were really under arrest for a while—that's how realistic the whole thing was. We went back to the room (chained up again after we had arrived), and opened the two remaining cabinets. I should add that in each cabinet had been a bolt, which we removed. We opened the two remaining cabinets, and in one was a laminar sheet on which were the letters "C" and "F," and behind the sheet (just out of reach) two clues taped up and held out of reach by a string, with a pair of scissors and the instructions to cut the string of the correct one. In the other cabinet was a handle with the instructions, "Pull me, after all clues have been solved." Simultaneously, Jennifer and Monica said, "Hey, take the wine bottle we found, fill it with water to the mark on its label, blow through it, and see what note comes out!" So we did, and it was an "F," so we cut the F clue out and read it. It told us to get something we had already gotten (out of order), so we knew we could pull the handle. We did, and the door swung open.

And so at 4:50 P.M., we walked into Win's room, to find Alexander Budreau sitting on the couch, with a suitcase in front of him, containing the gun he had murdered Isabella and Deana with, a wine bottle, and a single red rose. Exonerated from all guilt, we were free to eat the bribe, while Alexander was arrested, handcuffed, and carried away to justice.

it eliminates their jobs. Others call new products "fads." During this century, both the automobile and the television were expected to fall from popularity. In the early 1960's entertainment industry leaders thought that communication satellites were a passing fancy. Over the last decade, they (along with CNN) have changed the way people view world news.

This has resulted in large changes in the job market. The world is now

a global marketplace and barriers between countries are disappearing. The multinational company is now common; it used to be an oddity. Americans must now compete against the world. As machines replace workers, these jobs are lost forever. Advancements create unemployment, which in turn can cause recession. However, these advancements also create new industry and new jobs. A century ago, there was no automobile, aircraft, nor computer industry.

As the world moves into the information age, where will the new jobs be? Dr. Puckett believes they will be in the newly created industries. While no one knows what these industries will be, he predicts they will be the products of small business, innovation, workers who challenge the status quo, and those who take risks.

## ASCIT BOD Minutes, May 26

by Karen Shih

**Present:** BOD minus Mike B., Cathy Hafer, Mike Nassir, Mike Benedetti, Dave Derkits, Alan Blaine, Mike Clemens, Chris Echols, T'Nghia Vuong, Eric Hackman, and current Publications Darkroom Chairman.

Meeting began at 10:05.

**Bylaw changes:** Cathy and Mike expressed concern over the restrictive nature of the proposed requirement for the position of BOC Secretary. They feel that the requirement is essential for the BOC Chair, but that it is only desirable for the Secretary. There was discussion that, while the Chair must deal tactfully with difficult situations, the Secretary need only serve as an organizer. Cathy also expressed hesitance in taking away the power of the electorate in the case that only two qualified members run for the two positions; the voter would have a choice in the BOC Chair election, but not in the Secretarial race. Since the author of the proposed bylaw change was absent, motion was made to table the proposal until he is here and to strike the entire first section of the BOC proposal from Tuesday's ballot until a later date. Passed (7-0).

**KKGO** will play Wagner's "The Ride of the Valkyries" on June 9th at 7 A.M.

**Mike Clemens** is here to offer the BOD copies of the *Totem*. The BOD would like to commend the *Totem* Editors on a fine publication this year. Thanks for the hard work, Mike!

### Money Matters:

• **Publications Darkroom Chairman**—he's here to pick up his salary for the past year. Since it's in the bylaws that he gets a salary, the BOD agrees.

• **The California Tech**—Editors present a Compensation Schedule for the next fiscal year for the BOD's approval. The major change from last year's is a \$10 raise per editor per issue (total increase of \$30 per issue). The last raise was last year, from \$125 to \$150 per issue (total). Discussion at the end of the meeting raises concern over establishing a precedent of approving raises each year and the question of the "adequate salary" for an elected office. Quality of the *Tech* has increased, and the raise would barely put the average wage per issue at minimum wage for each editor, assuming a total of ~50 man hours spent per issue. Motion to approve the proposed Schedule failed (2-5).

• **The Y** is looking into sponsoring a performance by the Summer Comedy Troupe on campus this summer and requests \$250. Since the Y takes care of most social activities during the summer, the BOD feels that this is a worthwhile investment.

• **Alpine Club**—the white water surfing trip was a blast; only one ASCIT member went, so we're paying the club \$8. The club also wants to do a similar trip over the summer and would like funding for its ASCIT participants. This would be a longer trip, and the BOD decides to subsidize \$10 per ASCIT member.

**Dean Kiewiet** has made strong recommendations to make the van check-out procedure more stringent and formal. Namely, Gisela should have more driver information and exact knowledge of where the van is headed at all times. She will look into making a new duplicate form for check-out.

**Student/Faculty Committee** appointments are finally done! Gracious thanks to the members of the IHC for their hard work. Asif recommends finding out about certain committees that seem to have become obsolete in the past years. Flora has made plans to include that in the agenda for the Conference next February.

**Letterman jackets** for the seniors who ordered them third term will be shipped on June 9th and should conceivably get here on Graduation Day. Jackets ordered in previous terms are sitting in Pinky's room. Please go by 275 Holliston and pick them up.

**For the elections coming up on Tuesday**, someone made a recommendation to David to put ballot boxes in Marks and Braun, since we're experimenting with the new election procedures anyway, the BOD decides to try out a ballot box in Marks.

**Installations Dinner Fiasco**—a proposal has been brought up to downscale Installations Dinner to just an Appreciation Dinner for the outgoing BOD and a separate ceremony for the incoming BOD. The last Installations Dinner cost close to \$800. The Dinner is a nice and formal passing of power that unites newly elected officers and their predecessors at a relaxed dinner at the Athenæum and anything less would be "cheesy." The event also marks the end of the Lame Duck period for the old BOD, and is a perk for the members for the hard work done as well as hard work ahead. On the other hand, is this worth ~\$30 per plate? Should incoming BOD members be rewarded for work not yet done? What is "adequate compensation" for elected offices? Discussion tabled until a later date. A straw vote revealed a slight edge of NO CHANGE OVER CHANGE.

**Sign-ups** for the SURF AdComm, CHUG, and Big T Business Manager are coming down on Monday. Interviews will be held next Tuesday, which is our last meeting of this Academic year. The first meeting after summer recess will be after Rotation.

Meeting adjourned, 12:35 A.M.

continued from page 1

## Change

they found that these tools had spread throughout the continent. Technology spread through trading among tribes and the older stone tools had become obsolete.

In today's society, technology is often viewed as an evil. Robotics has made many jobs obsolete. Workers resist the new technology since



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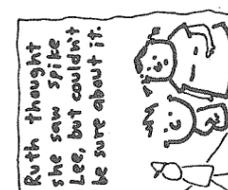
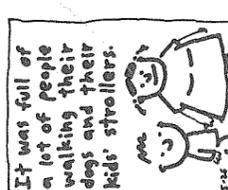
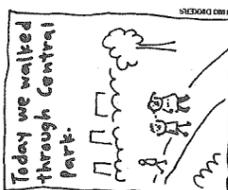
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# Bridge Without Sam

by Jeff Goldsmith

More Ether Ore

Another hand from the Soloway/Seligman/Juniors internet bridge match had points for both declarer play and defense. After a slight slip at trick two, declarer recovered nicely to overcome spectacular defense by Soloway.

♠ J53		♠ K42
♥ J743		♥ 10
♦ J854		♦ Q107
♣ QJ		♣ A87543
♠ Q1076	N	
♥ KQ652	W	E
♦ 932		
♣ QJ	S	
	♠ A98	
	♥ A98	
	♦ AK6	
	♣ K962	

SOUTH	NORTH
Dinkin	Fout
1♣	1♦
2NT	(All pass)

Dinkin and Fout were playing a 15-17 1NT, so Sam's hand was just a tiny bit too strong to open 1NT. Even though they were playing Walsh style, Fout decided to respond 1♦ on his rubbish in order to try to keep the bidding low. He did not want to have to contend with partner's reversing. Dinkin showed his 18 points and played in 2NT.

Soloway, West, led his fourth-best heart. Ducking from dummy is normal; it wins if the lead is from K10 or Q10. This time, as it always seems to for me, the ten forced the ♠A. With only six tricks, Dinkin should attack diamonds immediately, hoping for a seventh there and an endplay to supply the eighth. Declarer slipped and tried to set up hearts instead. Since the defender winning this trick was Paul Soloway, the defense found the counter to this play that illustrates why diamonds needed to be attacked at trick two. He shifted to his singleton club, destroying the entry to dummy. The good news is that the singleton was the Ten, which informed declarer that his ♣9 was his seventh trick. Seligman won the ♠A and continued the suit, leaving the lead on the table.

With seven tricks in the bag, declarer had to pave the way for an endplay for his eighth trick. Since either spades or diamonds could supply an extra trick if the defenders led them, he exited with another heart, East pitching a club. (He'd pitched one on the second heart, too.) Since a heart lead would be fatal, Soloway had to exit in one of the pointed suits. If his partner had held either the ♠9 or ♠8, leading the ♠10 would be safe—a surrounding play of declarer's hypothetical other high spot. But he didn't know which King declarer had; if the ♦K were the ♠K, a spade shift would be fatal. So, he exited with the ♦9. Everyone covered that and declarer had another problem. Before deciding upon his end position, however, he had to cash the last two clubs in order to remove exit cards from the East hand. On these two tricks, West discarded his last two hearts, and dummy threw a diamond and the good heart, leaving this position:

♠ J53		♠ K42
♥ —		♥ —
♦ 85		♦ 107
♣ —		♣ —
♠ Q107	N	
♥ —	W	E
♦ 32		
♣ —	S	
	♠ A98	
	♥ —	
	♦ A6	
	♣ —	

Judging well the location of the diamond cards, perhaps from the lead of the Nine, Declarer played two rounds of diamonds. East won and, perforce, played a spade. This ran to West's Queen, but he had to continue spades. Since West had not overcalled, declarer chose to play him for the ♠10, rather than the KQ and won the last two tricks to make his contract.

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

The Tech would like to thank Kenneth Walsh for doing on-campus circulation this term.



# entertainment

## Victorian Transformations

by Zackary Dov Berger

The notion of college as preparation for a profession; the idea of adolescence as a separate stage of life and children as something more complicated than undeveloped adults; the modern high school; our entire popular culture came into being during the latter part of the 19th century and the beginning of the twentieth. Reading Thomas Schlereth's *Victorian America: Transformations in Everyday Life, 1876-1915* transmits the shock that the country felt during those few decades. One is fascinated that so many institutions we dimly think of as eternal and natural—like the teenager or the national advertising campaign—are instead creations of not so long ago. During those decades the workplace, the schoolroom, and the bedroom (even the bathroom, itself a creation of those times) became increasingly regimented and subordinated to a culture organized around material goods. Holidays underwent the much-bemoaned process of "commercialization," transformed from quiet, familiar ceremonies into blaring public demonstrations of expenditure. Death, the final holiday, became subordinated to the professionalism and structured "artistry" of the mortician, himself a newly created professional aping the physician.

Also during those times, as Schlereth mentions only peripherally, the boundaries of science expanded tremendously. Oppo-

nents of what they call the "pseudosciences" (economics, anthropology, sociology, and psychology) can thank or blame these decades for their rise. At the same time—Schlereth completely fails to mention this, and justifiably so, in the context of this book's concern with everyday life—the closed circle of science and of physics in particular broke open: what was seen was no longer necessarily to be believed. The action of "seeing", of observing, was in fact no longer to be trusted. Therefore at the same time that society became more regimented and statistic-obsessed (one historian called the American Victorian period the Age of Numbers), in the midst of science grew a crystal of revolutionary and quantum thought.

This paradox—the rise of quantum mechanics and experimental uncertainty in a society that drove ever more ambitiously towards the certain and the secure—parallels the many other paradoxes present in those decades: the Progressive impulse in a bigoted society, the idealization and commercialization of the Wild West at the same time that the land was becoming increasingly developed, and the rise of business interests and their control unmatched by the reformist and regulationist impulses.

As presented by Schlereth these decades shook, one by one, the institutions and preconceived notions of those times. What surprises the reader is not the pace of change during these years—al-

though we tend to think that such social revolution belongs exclusively to our own time. It is strangest to see the dates on the front cover: 1876 to 1915. My mother's parents were born in 1919. According to this historical reckoning, then, my grandparents were born into a substantially different world than the one into which my great-grandparents were born.

So a work of history to bring up these problems in the mind of the reader: If social change can happen on such a scale in merely a few decades, what hope is there for us—if we ever have tried, that is—to understand those who came before us? If they saw their children not as children but instead as dwarfed adults, how can we hope to understand them as parents? And if they saw the black and Jew as inferior but considered the poorest worthy of concern and help, how completely can we understand them as democrats?

History should, if only for a moment, displace us; after reading good history we shouldn't be confident about the absolute and independent nature of the present, nor of our (often scientific) willingness to forget the past. *Victorian America* is good history—not just because it has lots of interesting trivia (Coca-Cola did actually have coke in it, just like you heard in middle school!) but because it reminds us that things weren't always this way.

## Glee Clubs, Orchestra Join Forces

by Chris DuPuis

On Tuesday, May 18th, the Occidental-Caltech Symphony, the Caltech Glee Clubs, and the Occidental Glee Club and College Chorus presented their Spring Concert at the Church of St. Philip the Apostle in Pasadena. The concert began at 8:00 P.M., with the

Occidental-Caltech Symphony performing "Les Préludes: Symphonic Poem No. 3" by Franz Liszt. This piece opened slowly and calmly, with broad movement from the string section. The action then went through an abrupt upswing as the orchestra broke into a rapid motif somewhat reminiscent of

Bach. After this, the music shifted back to the steady flowing from the beginning, and the faster theme re-emerged at various points throughout the performance. Overall, the orchestra played with great precision and spirit, and their choice of music was quite satisfy-

MOZART, page 7

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# election statements

## Senior Class President Craig Smith

I am running for the office of Senior Class President because I think it would be kind of fun. I think that I can be a fairly good representative of the class to whatever dignitaries present themselves. I assume that most of you know who I am, and I encourage you to vote for me. For those of you who have no idea who I am, I guess that there is no reason for you to vote for me. I won't be making the rounds of the houses, it is pretty much wasteful of my time and yours.

Sincerely,  
Craig Smith

individual in science, politics, or education, but someone we can all respect as a human being. I believe a commencement speakers should not only praise us for our achievements but inspire us so that we can be even better. As the class sec./treas. I would concentrate my efforts to find such an individual.

## Jim Murdoch

The Senior Class Secretary/Treasurer doesn't do much, but neither does the Senior Class President. The only thing these people do is to figure out a date for Ditch Day.

But, this holds an important responsibility: telling GNP about it beforehand so they can prepare their post-Ditch Day sale.

Hovse, serving two terms of office on social team, representing Blacker at frosh camp as a UCC, becoming involved in issues brought to the excomm, volunteering time to pre-frosh weekend, and devoting time to various other house activities such as leading the Blacker Hovse frosh project of 1991-92 (which involved, as you may remember, sixteen 14-foot long, 9-foot tall, 4-foot wide horses surrounding Beckman auditorium). Although I have not as yet been active outside Blacker, I would like to contribute to the Caltech community as a whole, and I would like to begin by serving as Junior Class President.

I am willing and qualified to serve you as Junior Class President, and I am prepared to devote my time and energy to doing so.

## Anandi Raman

A message for the Class of 1995 (or those of you who consider yourselves sophomores now, and hence, juniors next year...): Hi. A lot of you may know me by now as the ASCIT Social Director. (Didn't I bug you about signing up for the formal?) Well, I'm Anandi Raman, and I want to be your next Junior Class President. The purpose of Mudeo is to get the Freshman and Sophomore Classes together doing something fun. Well, that's just a big social event, and I have plenty of experience handling those, what with my ASCIT duties and being on Ruddock's Social Team last year. Since the attendance at Mudeo the last few years has been pretty sparse, I was thinking of changing the format a little—maybe making

# VOTE!

## Elections for the offices below will be Tuesday, June 1

## Junior Class Secretary/Treasurer Cedric Hobbs

I am Cedric Hobbs, and I am seeking the office of Junior Class Secretary/Treasurer. The duties of this particular position are to work with the Junior Class President in planning next year's freshman/sophomore event and in selecting a speaker for the graduation of the Class of '95.

I can offer you creative ideas and concern with the needs and wants of next year's junior class. I can offer you leadership, as I have served as vice-president and secretary of various clubs and organizations and as drum major of my high school marching band. And I can offer you the professionalism, responsibility, and sophistication required of the representative of an entire class.

I look forward to serving you, my classmates. Please cast your vote for me for Junior Class Secretary/Treasurer.

Thank you,  
Cedric Hobbs

## Senior Class Secretary/Treasurer Won Bang

I would like to have the opportunity to serve the senior class as the senior class sec./treas. One of the few duties of the senior class sec./treas. is to help the senior class president and the commencement speaker search committee find an appropriate speaker for our commencement ceremony. I believe the commencement speaker should not just be a well respected

## Junior Class President Kristin Polito

Hello! My name is Kristin Polito, and I am running for Junior Class President. I believe the soon-to-be junior class is intelligent, talented, friendly, and a great contributor to the Caltech community as evinced by the praise from upperclassmen, the academic and extracurricular involvement of the class, and the numerous awards, academic or otherwise, earned by members of the class. It would be a great honor for me to represent and serve you as Junior Class President.

I have been active in Blacker

it into a Mud Olympics sort of thing. I'd like to keep the tradition of Mudeo, but change it so it would be an event many people would attend.

The Junior Class President also has to choose a Commencement speaker. A survey in all the houses, and perhaps one sent to all of our class, would be a good way to get opinions on who we should choose. If elected, I'd like to meet with all of the juniors in each house and get some kind of idea as to who they would like to speak at our Commencement. That is perhaps one of the most important ceremonies we will ever attend, so by choosing a speaker ourselves, we will make our Commencement a personal and memorable experience.

So please, vote for me, Anandi Raman, for your Junior Class President! (Wow, what a powerful statement, you must all be thinking to yourselves now...) By the way, just a weird revelation I've been having—can you believe we're almost halfway done with this whole Caltech thing!!! Amazing...

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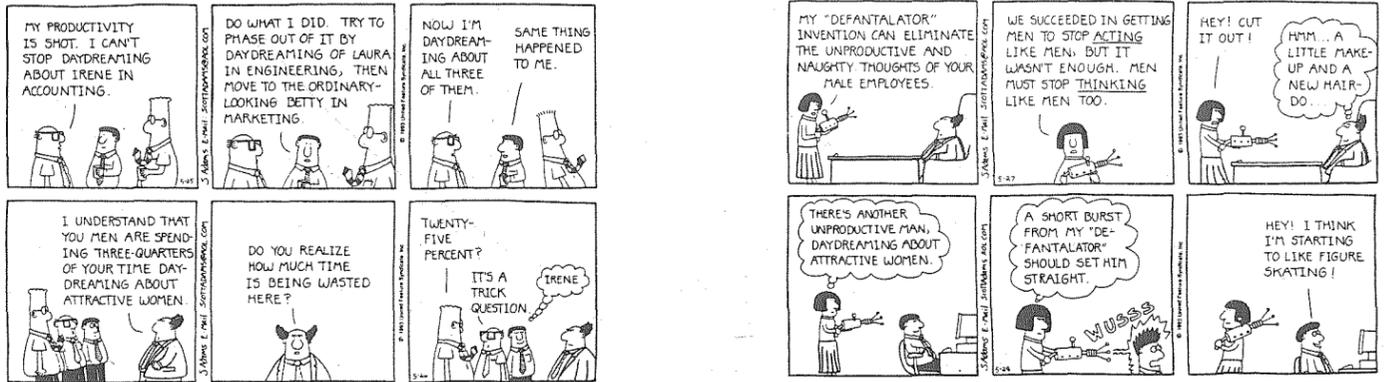
continued from page 5

# Mozart

After an intermission, the Glee Clubs entered, and they launched into a performance of Mozart's "Grand Mass in C Minor" in cooperation with the Symphony. Like the Liszt piece, the Mass begins slowly with the Kyrie, a slow, quiet tune. Then, following a long pause, they explode into the Gloria, which shows a great deal of influence from Handel's Messiah. The Gloria was one of the most powerful segments of the entire Mass.

However, this promising start was followed by an interminable period of vocal solos. While these solo pieces were performed beautifully, their excessive length and minimal musical content created a major gap in the continuity of the production.

Despite this, the performance ended strongly. The Osannah, which ended the concert, was full of vitality and intense action. This piece also showed a great deal of influence from J.S. Bach, whose work Mozart had become acquainted with while he was composing this Mass. Thus, while there were times when the production seemed to drag on forever, its ending left the audience with a feeling of fulfillment.



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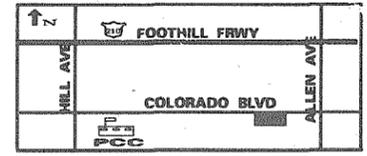
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\* Note: asterisks indicate new announcements.

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

**Caltech International Students** are invited to participate in the Pasadena Rotary Club's **POST EXAM OUTING** to the spectacular Yosemite National Park. This is a three-day trip from June 18 till June 20, 1993. The cost of \$50 per person includes transportation, park entrance fees and accommodation. Students must sign up by May 28. For information, call International Student Programs, x6330.

**Caltech Volo**—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, mountain bikes welcome. Rides leave at the time listed, so please arrive a few minutes early. For information, contact Michael Kantner, x4882 or kantner@hot.caltech.edu (e-mail).

**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. For information, call 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 856-8331.

**Caltech Y ExComm Meeting**—The Y invites anyone who wishes to co-sponsor 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 Cathy 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.

**OpenLine**—OpenLine 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.

**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

\* **Phantom of the Opera**—The Caltech Y has tickets to *The Phantom of the Opera*. These tickets are for students only and cost \$15.00. Tickets are to the Sunday, May 30, 1994 showing at 2:00 P.M. in the Ahmanson Theater and are available in the second floor of Winnett Student Center while they last. A student ID is needed and there is a 2 per person limit.

\* **The Arroyo Singers Women's Chorus**, under the direction of Mr. Will Aardappel, will present their spring concert: *An American Sampler*, on Sunday, June 13, 1993 at 4 P.M. in Dabney Lounge. Music will include Folk Songs, Spirituals, and Songs from the Turn of the Century. Refreshments following. Tickets: Adults-\$7.00, children under 12-\$5.00. For more information, call Heather Vitullo at (818) 350-8856.

**Chamber Music at Noon**—Friday, May 28, 1993 in Dabney Lounge. Lunch will be served. Pieces featured will include Saint-Saëns' "Caprice on Danish and Russian Arts," "Overture on Hebrew Themes," by Prokofiev, and Dvorak's Piano Quintet in A Major. Sponsored jointly by Student Affairs and Friends of Caltech Instrumental Music.

**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 x6353.

Lectures

**The Prospects for Real Deficit Reduction**—Michael J. Boskin, Visiting Scholar at the American Enterprise Institute and former Chairman of the President's Council of Economic Advisors, will present a major address at the Caltech campus in Pasadena at the Beckman Auditorium on Monday, June 7, 1993 from 8:00 to 9:00 P.M. Mr. Boskin will talk about "The Prospects for Real Deficit Reduction." In 1988 Michael Boskin assumed the position of Chairman of the Council of Economic Advisors and chief economic advisor to the President of the United States. Prior to that he was professor of economics at Stanford University and director of the Center for Economic Policy Research. His extensive research and publishing covers social security financing, tax reform, capital formation and the impact of public debt on economic growth. He will address the key issue of whether the U.S. budget deficit can be meaningfully reduced through the economic policies and fiscal measures currently being debated and, further, what steps need to be taken to bring the deficit under control in the longer term. The address is sponsored by the California Institute of Technology Industrial Relations Center. Special sponsorship of this event was provided by the Ann Peppers Foundation in memory of Giles S. Hall, Jr. There is no charge for this event. For more information, call (818) 356-3746.

Scholarships, Internships & Competitions

For Details on the following announcements, contact the Career Development Center, 08 Parsons-Gates, x6361.

**RAND** will be sponsoring interns in a wide range of academic disciplines in its Graduate Student Intern Program this year. They are looking for applications from students who have completed

2-3 years in Ph.D. study and are interested in the analysis of public policy problems.

For information on the following scholarships, please contact the individuals listed at the end of each scholarship.

**Unique Scholarship Opportunity offered by The Kirby Company.** "Makin' the Grade" is a scholarship program designed to offer college students a realistic alternative to dead end summer jobs, with emphasis on time management, communication skills, and professionalism in an actual business setting. Participants work as full-time and part-time independent Kirby dealers during June, July, and August, competing for monthly scholarships. For more information, call (216) 228-2400 or write The Kirby Company, 1920 West 114th Street, Cleveland, OH, 44102-2391.

**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 \$29) No. 10 envelope to, The John Gyles Education Fund, Attention: R. James Cogle, Administrator, P.O. Box 4808, 712 Riverside Drive, Fredericton, New Brunswick, Canada E3B 5G4.

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.



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