

Congrats. to
Ross and
Cherish Brown

The California **TECH**

It's a
Boy!

Volume XCVII, Number 19

Pasadena, California

Friday, March 1, 1996

SURF's Up for 1996

by Jim Cheng

To mark the start of the 18th year of SURF here at Caltech, SURF students, committee members and sponsors were invited to a kickoff dinner on Thursday, February 22 in the Athenaeum Hall of Associates.

With scores of SURF sponsors, students and faculty members present, the kickoff dinner gave many sponsors an opportunity to speak with the students they've been supporting and to learn more about the research that students have been able to do over the past summer through the SURF program.

After a reception accented by Caltech professor and Nobel Laureate Ed Lewis playing his flute, David Goodstein, professor of physics and applied physics here at Caltech, opened the dinner with a brief welcome and introduction. He was followed by Terry Cole, chairman of the SURF Administrative Committee, and Douglas Nickerson, Caltech alumnus and chairman of the SURF Board, who briefly reviewed the beginnings of undergraduate research at Caltech back in the 1920s to the creation of the SURF program in 1979 and finally, the growth of the SURF program to the current day, with almost 250 students involved with the program each year.

As dinner began, Jane Brock

recalled her SURF experiences last year, and gave the audience a glimpse into her research with aminoborollide ligand synthesis over the past summer. After her presentation, Ray Owen officially dedicated the 1996 SURF year to Ed Lewis. Owen added that the

dedication was made not only for Lewis' recent Nobel Prize, but for his teaching and mentoring, particularly of the many students who have SURFed in his labs over the years.

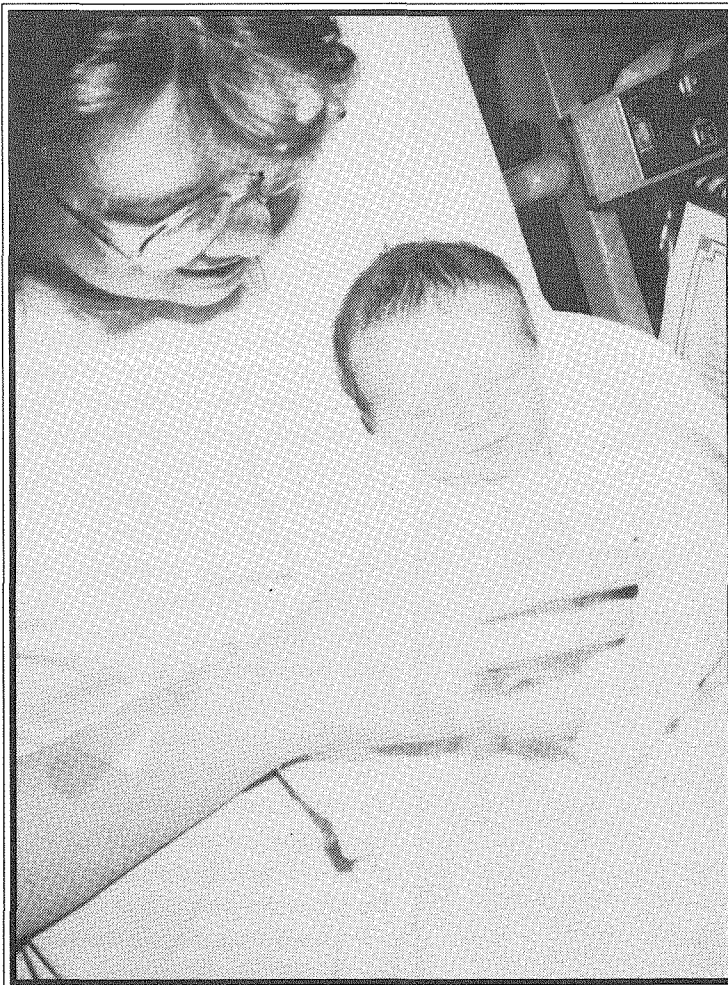
Professor Lewis then led the audience on a whirlwind tour from his research into the genetics of *Drosophila* to his experiences in Sweden, where he received his Nobel Prize. He

told of his surprise, when in Escona, Switzerland, he discovered that he had just been chosen to receive the prestigious award. Lewis then jokingly warned the attending SURF students not to be in Pasadena when they get theirs, "it's much more fun to be in the mountains!"

Through a slide presentation, he showed the audience glimpses of his trip to Sweden. He then recalled his beginnings in research and how they led him to the discovery of homeotic genes in *Drosophila*.

As the dinner ended, Professor Lewis continued to entertain the guests, many of whom were eager to take a look at his replica of the Nobel medal he had been awarded.

Professor Lewis led the audience on a whirlwind tour from his research into the genetics of Drosophila to his experiences in Sweden, where he received his Nobel Prize.



Welcome to the world, Korwynn Orion Harrison Brown!

PHOTO BY ROSS BROWN

Swimmers End Season on a High Note

Submitted by Angie Bealko

Last weekend was the SCIAAC Championship held at the Cerritos Natatorium. The three day meet had some lows and tons of highs as the divers took center stage on the first day. Liz Callaghan and Phil Rodriguez both took second. Liz was just off the NCAA standard on the three meter board and Phil was just twenty points away from the leader on the low board.

Three newcomers to competitive diving Mike Fishers, Ben Taskar and James Honaker completed their first year by placing third, fifth and seven on the one meter board, respectively. Coach Cathy Trachok molded this neophyte group to finish well at the championships.

In swimming, Jim Pierce

SEE SWIMMING ON PAGE 6

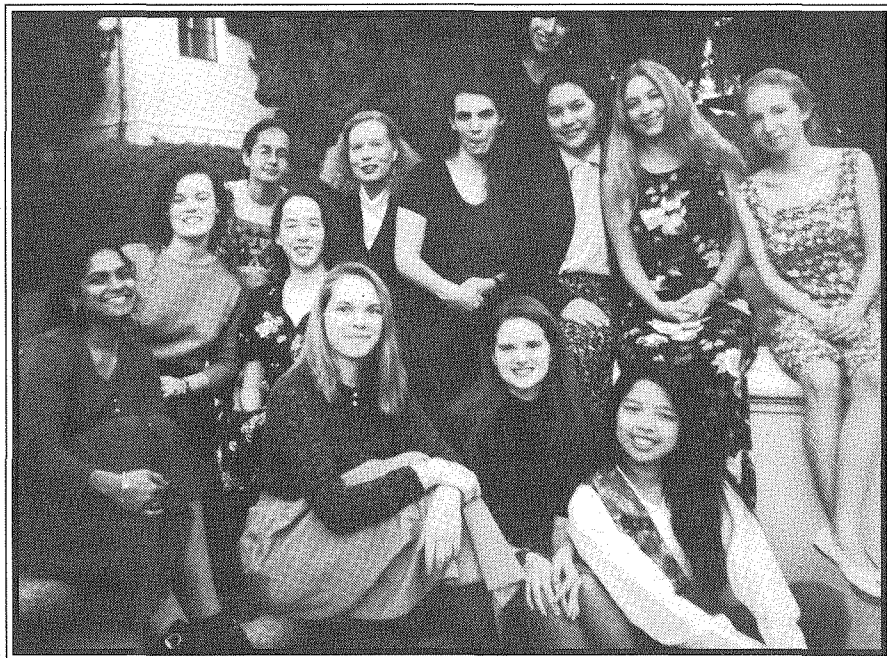
Glee Club to Present Medley of American Classics

by Samantha Gizerian

The Caltech Women's Glee Club is having a banner year. After a triumphant pair of Holiday concerts with the Men's Glee Club and the Chamber Singers, membership has almost doubled. Membership has grown so much, in fact, that the Glee Club now also has a small ensemble, the Clef Hangers. The Glee Club has also been invited to the Santa Monica Symphony, singing Beethoven's 9th Symphony. Tonight the Glee Club and the Clef Hangers perform

with the Men's Glee Club in the annual American Composers Glee Club concert, An American Sampler. Come to Dabney Lounge tonight at 8 p.m. and enjoy a medley of American classics,

including: Barbershop quartets, Jazz, Spirituals, and Testament of Freedom and Frostiana by Randall Thompson, one of the foremost American choral composers of this century.



The Clef Hangers

Hey! Look! GIBLES!!!

PHOTO BY CORINNE GILLIAM

Alumni



Association

The Alumni Association is sponsoring lunches for small groups of students (1-3) interested in meeting alumni and having lunch with them. If you are interested, please call Kerry at x6852 or email her at kerry_etheridge@starbase1.caltech.edu.

The Alumni Association has funding available for student organizations that encourage interaction between students and alumni. To be considered for funding an application form must be completed and returned to the Association no later than March 15, 1996. To receive an application form, call Kerry at x6852 or email her at kerry_etheridge@starbase1.caltech.edu. Decisions on funding will be made in April by the Student/Faculty/Alumni Relations Committee of the Alumni Association Board of Directors.

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CALTECH
public events

EXPECT THE UNEXPECTED

Jon Spelman
FRANKENSTEIN

FRIDAY, MARCH 1, 1996 / 8 PM • BECKMAN AUDITORIUM
Regular Prices: \$22.00 — 19.00 — 16.00

CALTECH GLEE CLUBS WINTER CONCERT

An American Sampler
FRIDAY, MARCH 1, 1996 / 8 PM • DABNEY LOUNGE
FREE



THEATREWORKS/USA
FREEDOM TRAIN

SATURDAY, MARCH 2, 1996 / 2 PM • BECKMAN AUDITORIUM
Regular Prices: \$9.00 Adults — \$5.00 Children

Coleman Chamber Music Concerts

DANIEL STRING QUARTET*

SUNDAY, MARCH 3, 1996, 3:30 PM
Beckman Auditorium
Regular Prices: \$22.50 — 19.00 — 15.50 — 12.00

Mozart • Partos • Shostakovich • Schubert • Haydn • Bartok • Beethoven



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ELLIOT M. MEYEROWITZ, Ph.D.

Professor of Biology, and Executive Officer for Biology, Caltech

WED., MARCH 6, 1996 / 8 PM • BECKMAN AUDITORIUM
FREE

GUITAR SUMMIT

STANLEY JORMA MANUEL KENNY
JORDAN KAUKONEN BARRUECO BURRELL

THURS., MARCH 7, 1996 / 8 PM • BECKMAN AUDITORIUM
Regular Prices: \$31.00 — 28.00 — 25.00



Armchair Adventures
A **British Summer**
NARRATED BY
JIM COLE

FRI., MARCH 8, 1996 / 8 PM • BECKMAN AUDITORIUM
Regular Prices: \$9.00 — 7.00

PRESERVATION HALL JAZZ BAND

SAT., MARCH 9, 1996 / 8 PM • BECKMAN AUDITORIUM
Regular Prices: \$28.00 — 25.00 — 22.00

Paco A. Lagerstrom Chamber Music Concerts

HEIDE LI, violin
TOM LLOYD, cello
ERICK CO, piano

SUNDAY, MARCH 10, 1996 / 3:30 PM • DABNEY LOUNGE
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Abolish Capital Punishment

by Mark Roulston

Today is International Death Penalty Abolition Day and those of us who oppose Capital Punishment have much to celebrate. The past few years have seen much growth in the worldwide movement towards abolition largely due to the newly emergent democracies of Eastern Europe and Africa and their commitment to a high standard of human rights. Since 1989 24 countries have abolished the death penalty while only 4 have reintroduced it. Last year the Supreme Court of South Africa ruled Capital Punishment unconstitutional and Moldova became the first former Soviet Republic to abolish the death penalty. Moldova has since been followed by Ukraine and Russia in its commitment to ending executions.

Different countries have different reasons for removing the death penalty from their statutes, but these reasons usually include the realization that executions are counterproductive in the fight against crime, incompatible with the cause of justice and, especially in nations that recently ridded themselves of totalitarian regimes, a symbol of the state's oppression of the individual.

The global trend away from Capital Punishment has left the United States of America in a minority of countries that still use the death penalty. Indeed, as far as Western Democracies are concerned the U.S.A. has, for several years, been in a minority of one. The U.S.A. is also one of only seven countries that executes juveniles. It shares this dubious distinction with Yemen, Saudi Arabia, Pakistan, Nigeria, Iran and Iraq.

Opinion polls indicate that a majority of Americans support executions and it has become very dangerous politically for candidates to oppose Capital Punishment. For these reasons it is worth examining the common arguments for its retention.

• To deter crime — Considering that most murders are committed in the heat of the moment or by people who cannot appreciate the consequences of their actions it is not really surprising that there is no credible evidence to suggest that death sentences provide any more deterrence than life in prison. Furthermore, when the state kills it may have a brutalizing effect on society that actually increases the murder rate. Be-

tween 1952 and 1967 California carried out an execution every other month, during this period the average annual increase in the murder rate was 10%. Between 1967 and 1991 there were no executions in California and during this time the annual increase in the murder rate averaged 4.8%. Similar patterns have been found in other U.S. states and abroad. For example, Canada's murder rate is 27% lower today than it was in the year before

The U.S.A. is one of only seven countries that executes juveniles. It shares this dubious distinction with Yemen, Saudi Arabia, Pakistan, Nigeria, Iran and Iraq.

abolition. In 1988 a report conducted for the United Nations concluded that "This research has failed to provide scientific proof the executions have a greater deterrent effect than life imprisonment. Such proof is unlikely to be forthcoming. The evidence as a whole still gives no positive support for the deterrent hypothesis."

• To save money — This common argument is based on a fallacy. The increased length and complexity of Capital trials makes them more expensive to prosecute. Texas spends an estimated \$2.3 million dollars per Capital case, several times the cost of incarcerating someone for life. Proponents of the death penalty argue that the process should be "streamlined" and the number of appeals reduced. However, many inmates have had their convictions overturned on their final appeal and a study by Michael Radelet and Hugo Adam Bedau identified 23 people executed since 1900 who were almost certainly innocent. Recently an investigation by the U.N. Commission on Human Rights found that, "Many of the death sentences [in the U.S.] continue to be handed down after trials which fall short of international agreements." It is difficult to see how you can cut corners in a process which is already inadequate. Meanwhile every dollar spent on Capital Punishment is one less dollar spent on increased policing, drug rehabilitation and other programs which have a successful track record of reducing crime.

• Retribution — Who does not feel anger and outrage at the kind of crimes committed by killers like Ted Bundy and William Bonin? But while these emotions are natural should we really base the criminal justice system on our emotions, or should we base it on reason?

Crime is often described as a disease. If this is so then politicians who advocate the use of Capital Punishment are like the Snake Oil Salesman of the old west peddling a bogus cure which is expensive, useless and which has nasty side effects. In the current climate it is easy to forget that in the last century it was American states that began to lead the World away from state sanctioned killing. The first act of the Michigan judiciary after Michigan became a state in 1847 was to outlaw the death penalty, making it the first English-speaking territory in the World to do so. It is time for the United States of America to reassert its position as a World leader in human rights and the first step must be abolition of Capital Punishment.

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Caltech 40-58 SAC, Pasadena, CA 91125
phone: (818) 395-6153
e-mail: editors@tech.caltech.edu
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TIN MEN Shay Chinn Terence Moran Mason Porter Stephen Van Hooser	WICKED WITCH OF THE EAST Wei-Hwa Huang
COWARDLY LION Shay Chinn	MUNCHKINS Stephen Van Hooser Mason Porter Myfanwy Callahan Maria Huang Samson Timoner
DOROTHY AND HER TWIN SISTER, NOT APPEARING IN THIS FILM Autumn Loolijen Samantha Cizerian	TOTO Terry Moran
WICKED WITCH OF THE WEST Angie Bealko	SCARECROWS Terry Moran Jim Pierce
THE MAN BEHIND THE CURTAIN Francisco Gutiérrez Heidi Eldenburg	THE POPPY FIELD Laura Brady Grace Yang Donna Ebenstein
FLYING MONKEYS Sander Granat Lydia McKay Robert Johnson	GLINDA THE GOOD WITCH Hall Daily

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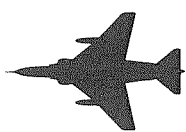
Letters and announcements are welcome. All contributions should include the author's name and phone number and the intended date of publication. Submit copy (preferably on Macintosh 3.5" disk) to the Tech mailbox outside SAC room 40, or e-mail to editors@tech.caltech.edu. The editors reserve the right to edit and abridge all submissions for literacy, expediency, etc. All articles are the property of the authors. Authors and columnists retain all intellectual property rights. Articles received in Bin-Hex format will be laughed at and thrown away. If you don't like that you can just go someplace you can't say on the internet.....

The countdown has now reached one! Hopefully, we can survive that long. To help us, please send monetary contributions to the Help Save the Tech Editors From Themselves Fund. Your donation may save as many as six lives. It may already be too late, but send us your money just in case!

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The Outside World

by Myfanwy Callahan



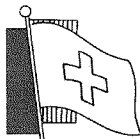
Cuba - Four Cuban-Americans are presu

med dead after an incident Saturday afternoon when their two planes were shot down by Cuban military pilots. Their planes had crossed the 24th parallel, the end of international waters surrounding Cuba.



Israel - Two suicide bombings on Sunday

killed 27 people in Jerusalem. Palestinian police are rounding up Islamic militants in the West Bank and Gaza to prevent further terrorist activity. Prime Minister Shimon Peres declared an all-out defensive against Hamas, the Islamic resistance organization.



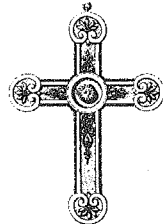
Switzerland - Ticino, a canton in Switzerland, was ordered by a court in New

York to pay \$125 billion to American investors who lost their money when a bank in Ticino failed. Though lawyers' fees are mounting, Ticino is still trying to get the decision reversed. "If not, we'll all be working for McDonald's and Burger King the rest of our lives..." Ticino's lawyer stated.



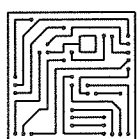
Guatemala - The burnt remains of 167 people were found in the state of Quiche in

Guatemala, said human rights officials Wednesday. The bodies were buried there in April 1982 when the army swept through the country burning villages and killing leftist supporters. They are some of the estimated 100,000 killed in the nation's 34-year civil war.



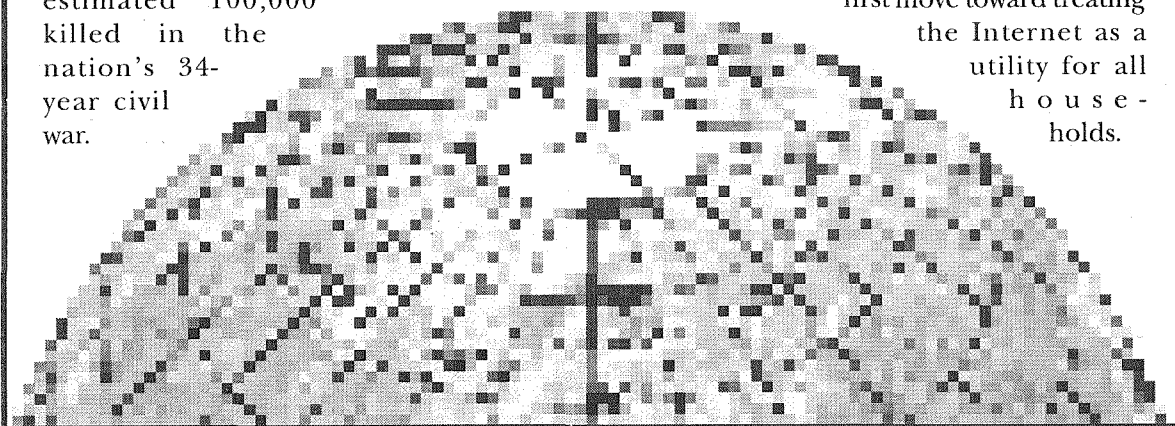
Russia - The Russian Orthodox Church severed ties with Constantinople, the traditional center of Eastern Orthodoxy

after a dispute over Estonian independence. Constantinople recognized the autonomous Orthodox Church of Estonia, eliminating Moscow's supervision. This is the first break in



United States - AT&T announced Tuesday that it would provide

five hours of free Internet service each month to its customers and a cheap rate for unlimited access. This is the first move toward treating the Internet as a utility for all households.



Y.E.S.S '96

DEADLINE EXTENDED

Positions for the Young Engineering and Science Scholars Program (Y.E.S.S.) are available for Summer '96 in the following areas:

- Instructor for Mathematics
- Teaching Assistantships in Biology and Earth and Planetary Science
- Head Counselor
- Program Counselor

Y.E.S.S is a five-week residential program that exposes 40 high school students to the joys of intensive scientific investigation. The program runs from July 8th to August 9th.

Applications are available in the Caltech Y and are due on **Friday, March 8.**

There will be an informational meeting on Tuesday, March 5th at 12 Noon in the Y Lounge for all students who are interested in applying for YESS. Lunch will be served.

Contact Athena at x3180 or email at castroa@starbase1 for more information.



by Donna Ebenstein

DECOMPRESSION is coming!!! Sign-ups to volunteer will be available in the undergraduate houses and at the Y starting on Monday.

Today there will be a **noon concert** in Winnett Quad (weather permitting). Come out and listen to live music.

Remember, if you are interested in learning more about the Y, come to our **Excomm Meetings**. We meet every Monday at noon in the Y Lounge.



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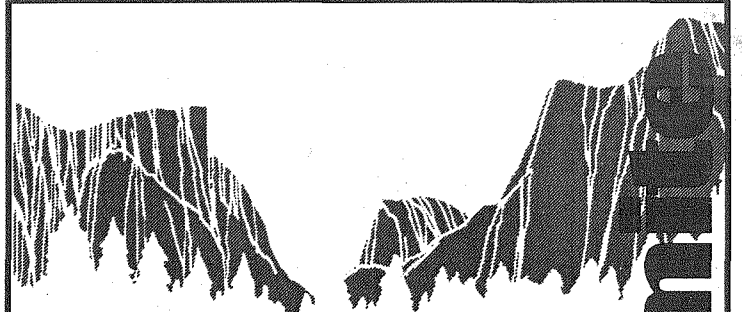
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Sat-Sun Bargain Matinee 1:45 p.m.



Jim's CD Reviews

by Jim Pierce

The CD's reviewed are all ones that I liked enough to buy, and as a result, the starring scheme is a little weird. You know how the scoring works. If you want any more info on any cd, or think I should hear one of yours, just drop on by my room (Dabney 11) or email me at jpierce@uags.

Tom Cochrane - Mad Mad World

And if you buy that two CD or two cassette set *Living in the Nineties*; you get some of the 90's greatest hits, including "Ice Ice Baby," "U Can't Touch This", and "Life is a Highway." Take away "Life is a Highway" and the album makes nice background music for a truck stop or grungy classless donut shop, but not much more. I do admit that Tom Cochrane can play his guitar okay, but not well enough to get more than a compound complex sentence in a smaller campus newspaper like the *Tech*.

Collective Soul - Hints, Allegations, and Things Left Unsaid

After hearing "Shine," this album was not what I expected; however it has grown on me. Representative of rock in the 90's as put out by Atlantic, MCA... It has a not too loud, not too good, well-tempered sound. The song "Burning Bridges" sounds just like "December" on their new album. It's okay

and good if you like the more popular stuff. There's also enough time in "shine" before he says "yeah" to say "hey, wanna have sex?" ★★

Counting Crows - August and Everything After

I like this album. I'm not sure whether it is that crazy song "Mr. Jones", the continuity of the album the happy-go-lucky guitar style with a happy singer, or the fact that I slept in and had a good breakfast. Seriously, though, this album is one of the few, true, good rock albums of the 90's. It's nothing "alternative" or fancy, just a nice album that;s cool background music for driving or cleaning. If you dislike ambient, it's also good for being depressed. ★★★

The Crow (The Soundtrack)

Not only did the movie rulem but the soundtrack does, too. The Cure, Violent Femmes, Thrill Kill Cult, Machines of Loving Grace,...all come together with new stuff and good old stuff in an album that you shouyld go out and buy right now if you don't own it already. I use it for tests, homework, and whenever it rains outside. I especially like "Color Me Once", the new one from Violent Femmes. ★★★

—JP

A.S.C.I.T. Minutes

FEBRUARY 26, 1996

Present: Dave R., Dave B., Emily, Kristie, Grace, Maria, Alexis, Kara

• Meeting starts at 10:07PM. Officers' reports were given.

• Jenny Ogie approached Emily and asked for ASCIT funding for Pop Fest, a joint party with Occidental that will with live bands. The Pop Fest will be in Dabney Gardens on Saturday, April 13. Since Dave R. wasn't there to determine if a formal proposal was needed, the topic was postponed till later in the meet-

ing.

• Emily also brought up the topic of the formal. The BOD seemed to like the idea of having the formal at Marina del Rey, though nothing is yet determined. The transportation to and from the hotel has to also be worked out.

• Grace just passed around a blank roster for everyone to fill out.

• Kristie said that the signature power has been switched over.

Closed Meeting

• Meeting was opened at

10:41PM. Dave R. arrived a minute later. The tentative date for the lunch with Student Affairs is March 5.

• Jenny Ogie comes and formally asks for \$200 for the Pop Fest. Emily motioned for it and Grace, because she is as smart as she is, doubled the motion instead of seconding it. ASCIT approves to help fund the party with \$200.

Meeting closed at 11:07PM.

Respectfully submitted,

Grace Yang

ASCIT Secretary



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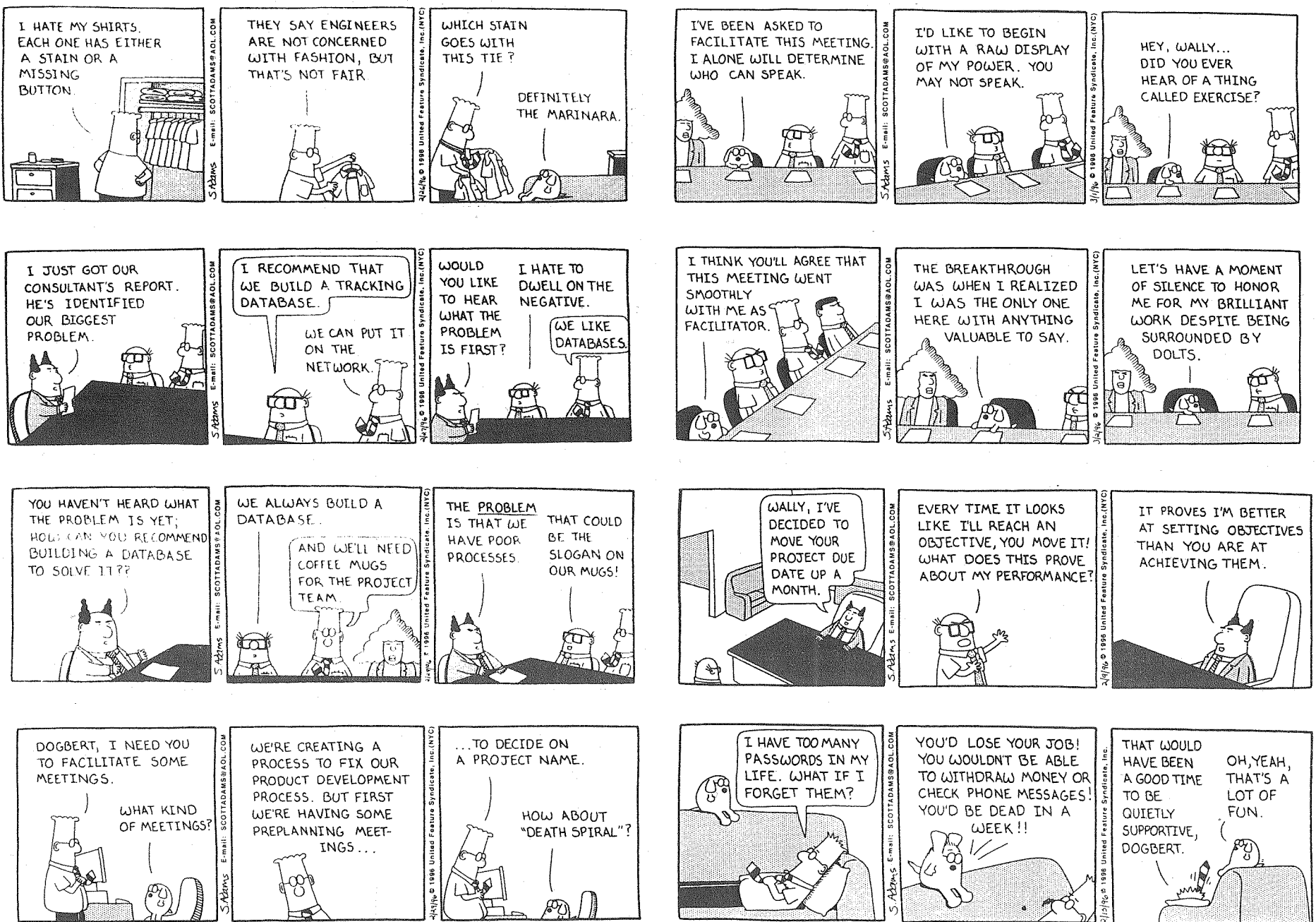
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SWIMMING: Tech Takes Records

FROM PAGE 1
broke the long standing 100 yards backstroke record of All American Chris McKinnon with a blistering 55.80 on the first leg of the medley relay.

Team captain Mike Greene continued his outstanding season with a 22.08 second sprint in the 50 yard freestyle for an eighth place. The lady Techers lead by Dois Tsao, swam well dropping their time and impressing everyone with their toughness and enthusiasm.

The second day saw the divers again making an impact on the field with Phil again placing second, Liz dropped to third, while Fisher was fourth, Taskar sixth and Honaker seventh.

Swimming started with Greene's morning swim qualify him into the evening finals with a 4:29.49 for the 400 yard individual medley. The fifth best time placed him on the outside lane with the faster time on the inside. During the evening finals, Mike took the first leg, the

100 yard of butterfly, out fast. His time of 55.94 pushed him two body lengths in front of the field. The backstroke leg of 1:08.62 saw two of the faster

Jim Pierce broke the long standing 100 yards backstroke record of All American Chris McKinnon with a blistering 55.80 on the first leg of the medley relay.

swimmers pull up on Mike's lead. The breaststroke has been a problem all year with Greene nursing a bad knee. Seventy-five yards into the breaststroke Greene fell to second. His split of 1:16.42 was fast enough to leave Mike only half a body length behind facing the last 100 yards of freestyle. With three hundred swimmers and fans

screening their lungs out, the other four swimmers faded back as Greene and Gansner of Pomona Pitzer battled stroke for stroke. Each twenty-five yard split was just a little faster than the last one; 15.25, 14.55, 13.71, and both swimmers flipped their last turn together. Gansner took the quick lead off the wall and it was not until the last meter of the race that Greene recovered the lead and the championship with a super quick 13.41 for the last split and a 4:17.90 total time. That twelve second drop made Greene the second fastest swimmer for that event in the history of Caltech and the first time in thirteen years that we have had a swimming champion.

This swim seem to energize the team as Senior Colin Humphries swam a smart race to place eighth in the consolations 400 I.M., while Brian Collins shocked everyone with his improvement in the 100 fly for an eleventh place.

SCOREBOARD

by Angie Bealko

Thursday 2/22	Men's Basketball	La Verne	LOST	63-36
Friday 2/23	Baseball	La Verne	LOST	13-1
Saturday 2/24	Fencing	See Highlights		
	Women's Tennis	Whittier	WON	8-1
	Men's Tennis	Whittier	LOST	6-3
	Track Invitational	See Highlights		
	Baseball	La Verne	LOST	12-2
	Men's Volleyball	Mt. San Antonio	WON	3-0
Monday 2/26	Golf	Cal Lutheran	LOST	341-358
	SCIAC Swimming	See Highlights		

Jim Pierce clearly won the 100 yard backstroke in consoles 56.11. Heather Dean finally

dropped into the 29 second range for the 50 yard freestyle.

All of the heroics had placed Caltech's men in fourth place ahead of Whittier and twenty points ahead of Redlands and just behind Occidental College. The women continued to be one highlight after another but the lack of numbers kept the lady Techers in sixth place.

The last day saw the swimmers continue their improvement as Christie Armentrout, Mina Luang, Keri Ryan and Jennifer Holland pop their best races of the season in the 400 freestyle relay in the evening finals. Casey Huang and Sooketoo Bhuta did make it into the 200 breaststroke consoles, placing well. Pierce again got into the record book for the 200 backstroke 2:00.85 in the prelims but had some trouble with the walls placed sixth 2:03.31. Brian Bircumshaw finished his first season placing 11th in the 200 backstroke.

The distance swims were handled nicely by Wesley Tanaka with an 18:06.31 for his mile swim. Brian Collins, Tanaka and Armentrout repeated their great effort and place well in the 200 yard butterfly. Twenty-four hours later after the 400 I.M. Greene found himself in the same lane in the finals of the 100 yard freestyle. His swim in the prelims of 48.07 was just off his school record and would need a maximum effort for the finals.

It looked as Greene would repeat his heroics as his splits were much better than in the morning. On his last turn and in third place and moving up. Mike flipped hard but his knee buckled. He finished the race but had to be helped out of the pool.

After three days of good, wet, fun, the Caltech women amassed 110 points placing them sixth. The men team also scored a bucket of 279 points. This was enough to place fourth ahead of Whittier and Redlands but couldn't make up the twenty points to over take Occidental. Claremont sweep the SCIAC championship winning both men's and women's crown.

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Weekend Highlights

by Angie Bealko

Women's Tennis opened SCIAAC conference play this past Saturday with a win at Whittier, 8-1. Caltech had already won the match after singles play with wins from players one through five. The Beavers went on to sweep the Poets in doubles with strait set victories in all three matches. Number one player sophomore Alexis Johnson won 6-2, 7-5. Number two junior Lena Petrovic won 6-4, 6-3. Number three player and senior captain Laura Verhoff won 7-5, 6-2. Freshman Amy Chang-Chien won her match at number four 6-1, 6-1. Number five player sophomore Irene Wong won 6-4, 6-4. Sophomore Grace Yang lost her match at the number six spot: 4-6, 7-6 (7-5), 3-6 during another two and a half battle. Johnson and Wong took number one doubles 6-4, 6-0. Petrovic and Verhoff grabbed number two with a score of 6-2, 6-4. Chang-Chien and Yang captured their win at number three doubles 7-6 (11-9), 6-2.

Men's Tennis fell to Whittier at home on Saturday, 6-3. The Poets proved to be a bit too tough for the Beavers. One of Caltech's stronger players, senior Amir Alegheband, was unable to play his single's match due to illness, but managed to play in the number two doubles spot with fellow senior Atul Salvekar. Freshman Charles Kim won his singles match at number five, 6-0, 6-3. Sophomore Dazhi Chen had the other singles win for the Beavers, grabbing a 6-3, 3-6, 6-1 win at number six. Kim and Chen won their doubles match in the third spot, 6-2, 6-0. Sophomores Ronak Bhatt, Jason Jenkins, and Ben Miller lost their singles matches: 6-4, 6-3 at number one; 6-2, 3-6, 6-4 at number two; and 6-4, 1-6, 7-5 at number four. Salvekar lost his number three singles match 6-4, 6-3. Jenkins and Bhatt fell 6-3, 6-0 in their number one doubles match. Salvekar and Alegheband lost their number two match 6-2, 6-2.

The Baseball team played Redlands three times this weekend, and despite cleaning up their per game errors, the Beavers fell all three times to the Bulldogs: 13-2, 12-2, 15-2. In the first game (on Friday) the Beavers were hitless until the 6th inning. Unfortunately, they had six errors, giving them their first loss for the weekend. On Saturday the Beavers played a double header. In the first game Tech had only 2 errors, but some wild pitching gave up

quite a few runs. In the second game, Tech got five hits, but still fell to the Bulldogs. The one highlight of the day was Senior Jon Wesselmann throwing out three runners from left field (one in the first game, and two in the second). Caltech hosted a Track Invi-

tational on Saturday, and despite missing several participants, the Beavers did quite well. Some of the highlights were as follows. Freshman Amy Pierce and Sophomore Cailin Henderson grabbed 10th and 3rd respectively in the 1500m with times of 5:56.44 and 5:03.21. Senior Tom Meyer, Senior Tom Dmukauskis, and Sophomore Brian Barris grabbed 9th,

8th, and 4th respectively in the 1500m with times of 4:31.39, 4:28.13, and 4:16.38. Sophomore Dan Kleiman and Meyer finished 1st and 3rd in the 3000m steeplechase with times of 10:07.04 and 10:51.02. Senior Mike Greene won the 400IM at the SCIAAC Swimming Championships!!! The Fencing team traveled to

CSLB on Saturday and managed to grab quite a few places. Junior Austin Collins grabbed the conference sabre championship. Sophomore Andy Laucius took 4th in the conference for sabre. The men's sabre team finished first overall. The women's foil team took third place honors, with Freshman Emma Goldberg grabbing third place as an individual.


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Announcements

From The Human Resources Department: A temporary services company calling itself "Norrell Services, Inc." has been distributing a flyer displaying the Caltech logo and referring to the company as the "Caltech" hotline. The pamphlet implies that this company is in the business of supplying its employees to Caltech to do "special projects". The Institute has no relationship with this company and has not given its permission to use the Caltech logo or name. Individuals interested in hiring temporary employees at Caltech should call Gwendolyn Lytle at extension 4661.

The Graduate Housing Office has relocated to 405 S. Catalina #105 (Campus Building #104). Their new extension is x6178 and new mail stop code 105-104. Linda Chappell and her assistant Dave Nuttall will be happy to answer any questions you might have about graduate and guest housing. All other functions of the Office of Housing remain unchanged.

Delta Airlines is offering special "extra credit" student fares as low as \$138 round-trip (and as high as \$318, depending upon locations of travel) for travel between today and March 31st. Tickets are nonrefundable and must be purchased at least seven days before departure, with certain blackout dates. To get these special rates, students are to call Delta at 1-800-9DELTA.

Events

John Spelman will be performing his one-man version of Mary Shelley's *Frankenstein* on Friday, March 1st, at 8pm in the Beckman Auditorium. Tickets are FREE to Caltech Faculty, Staff, and Students through the Caltech Ticket Office.

The Daniel String Quartet will perform works by Mozart, Pärtos, Shostakovich, and Schubert in a Coleman Chamber Music Concert on Sunday, March 3rd, at the Beckman Auditorium at 3:30pm. Tickets start at \$12 general admission, \$5 for students with ID. There are 50 free student tickets available.

On Thursday, March 7th, at 7pm, the Caltech Folk Music Society will meet in Winnett's Clubroom 1 to share and play songs and to prepare a mailing for the next concert. Bring your guitar, banjo, mandolin, or whatever will fit in with their broad interpretation of folk music. They will be folding, stapling, and labeling flyers. Those who play or sing will entertain the worker bees. The Beatles, Tracy Chapman, Woody Guthrie, John Prine and lots more. It's all folk music to them! Come find out what the Folk Music Society is about. Call Rex Mayreis at 791-4583 for more details.

March is Women's History Month and the Caltech Women's Center will be celebrating **International Women's Day** on Friday, March 8th. The program will be at noon in Winnett Lounge; lunch will be served and reservations are required. More information is up-



μ denotes a new announcement.

coming from the Women's Center on this event.

The next **Women's Center Dinner** with a female scientist is scheduled for April 2nd at 7pm at the Women's Center. Reservations are required to attend the dinner, although all are welcome to join in the succeeding discussion that will start at 7:40pm.

The Men's and Women's Glee Clubs present **An American Sampler** on Friday, March 1st, at 8pm in the Dabney Lounge. Included on the schedule is Testament of Freedom and Frostiana by Randall Thompson, and American Folk Songs by Aaron Copland, plus spirituals, jazz, and Barbershop Quartet. The performance is free, but seating is limited.

Club Announcements

The Caltech Ballroom Dance Club **introductory Waltz** class continues Today, Friday, March 1st, in Winnett Club Room 1 (upstairs) from 7:00 to 8:30pm; no experience or partner is required. It's not too late to join! The class costs \$12 for Caltech or JPL employees, \$20 for all others. Please come early to help move furniture.

Next Wednesday, March 6th, the Caltech Ballroom Dance Club begins an **introductory salsa class** with Richard Orozco to be held from 7:00 to 8:30pm in the Winnett Center (downstairs). Four Salsa classes will cost \$12 for Caltech or JPL employees, \$20 for all others. The class will be followed by open dancing. Contact Ching Liu at chingliu@upeg.caltech.edu or at 795-0660 for more information.

From the Counseling Center

Looking for a safe and supportive place to discuss issues such as coming out, being out, dealing with family, coping with a homophobic culture, and being GLB at Caltech? Want someone just to make new friends? You are invited to the **Gay/Lesbian/Bisexual Support Group**, which meets on the first and third Tuesdays of each month from 7:30pm till 10:00pm in the Health Center lounge. This is a confidential meeting and attending does not imply anything about a person's sexual orientation—only that he or she is willing to be supportive in this setting. The group usually discusses a particular relevant topic and then moves on to the general discussion. Refreshments are served. If you would like more information, please call x8331.

Fellowships and Scholarships

Project Vote Smart has announced that a generous grant from the Hearst Foundation is making over \$50,000 in scholarships available to students who want to work on the "Voter's Self-Defense System" this spring and during the entire 1996 presidential election series. This project, through a phone hotline and a web-site, attempts to help give voters "a way to defend themselves from the a manipulative mudslinging of political campaigns" by providing an instantaneous way for voters to

access the facts. Students interested in learning more can contact Ann Yoders at either (541) 737-3760 or by e-mail at ann@vot-smart.org.

Finding that Science and Math aren't your only interests? The **J.P. Getty Museum** understands. In fact, they have a program for people like you: The J.P. Getty Trust is now accepting applications for summer internships from culturally diverse undergraduate students interested in exploring careers in art museums and related areas of the visual arts and the humanities. Students of all academic disciplines are encouraged to apply. The internships can be held at a variety of J.P. Getty locals in the Southland, go from June 17th through August 23rd, and provide a \$3,000 stipend. The deadline for applications is **March 4th**.

From the Fellowships Advising and Resources Office, extension 2150, e-mail lauren_stolper@starbase1.caltech.edu.

Students interested in obtaining financial aid in order to participate in **volunteer and study programs in the developing countries** of Asia, Africa, and Latin America can request a free brochure, "Travel Grants for educational Programs in the Third World" via e-mail. E-mail your request, your name, and your complete mailing address to ISIG@grants.criel.org.

Travel funds are available for African-Americans, Asian-Americans, Arab-Americans, Hispanic-Americans, and Native-Americans are now available through Robert B. Bailey III Minority Student Scholarship Fund for Education Abroad. Applicant must be U.S. citizens or permanent residents and must participate in a CIEE program abroad—this includes workcamp programs. For a brochure on this program, e-mail: BaileyGrants@criee.org. The most recent edition of **STUDENT TRAVELS** magazine (p. 12-13) details the experiences in Germany of a student who received a travel grant from this program. E-mail lauren_stolper@starbase1.caltech.edu for a copy.

Work Abroad this Summer! The Council for International Educational Exchange has work programs in eight countries: Britain, Ireland, France, Canada, Germany, New Zealand, Costa Rica, and Jamaica. They arrange for a work permit for a modest fee and can help you get a job. If you would like more information, e-mail lauren_stolper@starbase1.caltech.edu. Put CIEE Work Abroad Program in the subject line and include your name and box number.

Web Info on Travel to Britain. Here's a list of Web sites in Britain that students and faculty may find of interest. Remember that the Fellowships Office has a travel section with information on travel to Britain. British Airways <http://www.british-airways.com> British Tourist Authority <http://www.bta.org.uk> West Country Tourist Board <http://www.dcs.ec.ac.uk/wcot.html> South East England Tourist Board <http://www.se-eng-tourist-board.org.uk/seeb/wales> Tourist Board <http://www.tourism.wales.gov.uk> Northern Ireland Tourist Board <http://www.intelknowledge.com/northern-ireland/> Scottish Tourist Board <http://www.scotland.org.uk/stb/>

Stop by and pick up a copy of **Student Travels**, the magazine on international travel, study and work to get more information on how work, study, and travel abroad opportunities. The Spring '96 issue contains information on hostels, hotels, and other cheap sleeps in Europe and Britain on a budget, hiking in Hong Kong and getting work abroad. The Fellowships Advising and Resources Office are currently located in Winnett Center (enter through the Residence Life Office), but in late March will be moving to offices in the SAC and will

have a special collection of travel materials for students in the office.

Attention Graduating Seniors: Many private high schools and middle schools offer one year fellowship programs for graduating seniors who would like to teach for a year. Positions are usually paid. Some fellowships are in day schools and some in boarding schools. If you would like to have us send you a copy of a list of such programs plus a guide that tells you more about these fellowships please e-mail the Fellowships Advising Office. Give your name, specify teaching fellowships in the subject or body and give your box number.

The **Lindbergh Foundation Grants Awards** support innovative ideas at their early stage of development. The grants are open to citizens of all countries and support research and educational projects that address in some way the balance between technology and the environment. Ten grants in amounts of up to \$10,580 are awarded each year. Applications are available through the Fellowships Advising Office.

Women who are U.S. citizens can apply for a **travel grant to Sweden** if they plan to study or research in Sweden. More information is available in the Fellowships Advising Office. Students can request an application from The American Women's Club in Sweden, Scholarship Foundation, P.O. Box 12054, S-102 22 Stockholm, Sweden. Be sure to include a self-addressed envelope with your application request.

Work as a volunteer in one or more of 23 countries this summer: Volunteers receive room and board and can work from 2 to 4 weeks on a project. More than one project can be scheduled. Projects include tasks such as restoring a castle, organizing a festival, planting trees, building a playground or implementing a recreation program for children. This program is sponsored by the **Council on International Exchange (CIEE)**. It is a very popular program, and it is highly advisable to apply early. No language skills are needed with the exception of Spanish for Spain and conversational French for North Africa. There is a placement cost of \$195 for one 2-4 week project. Information brochures are available in the Fellowships Office or we would be happy to send you one via campus mail: e-mail your name, the fact that you want an International Volunteer Project 1996 brochure and your mailcode to lauren_stolper@starbase1.caltech.edu. A listing of last year's volunteer projects is available for review in the office. Note that special fellowships for minority students interested in this program are available through the CIEE.

From the Deans' Office, 102 Parsons-Gates:

The **Sunhyong Group of Korea** is proud to present its Fourth Annual Essay Contest for registered undergraduate students in the areas of business, government/law, science, and communications. The top three essays in each category will be selected as the winners of Sunhyong's 1996 "Global Leaders of Tomorrow" Essay Contest. Sunhyong is a leader in the fields of energy, international trade, petrochemical products, telecommunications, and engineering & construction, which places Sunhyong among the top 100 companies in the world, with annual revenues of over 22 billion. Entrants must be a registered college undergraduate or graduate at the time entry is submitted. The Categories for the essay must come under one of the following areas: Business-all areas, Government/Law-all areas, Science-all areas, Communications-all areas (including journalism, advertising, telecommunications, public relations, mass communications). For more information on guidelines or judging criteria, please contact the Dean of Students Office. All contest entries must be postmarked no later than **April 1st, 1996**.

The Beckman Internship will be available for the summer of 1996. The internship, supported by friends of Arnold Beckman, will pay a stipend of \$3600 and allows a selected intern to spend the summer working in the office of a politician to see the inside process of government. The intern is expected to make arrangements with the appropriate political persons. It is open to any undergraduate who intends to be a Caltech student next year. If interested, submit a brief proposal describing where and how you would use the stipend, to the Deans' Office, 102 Parsons-Gates, by **Monday, April 8, 1996**.

Teachers are needed for this summer's **Academy by the Sea** academic boarding program in the following areas of expertise: English, English as a Second Language, Computer Science, Math, French/Spanish, Science (Environmental/Oceanography), Social Sciences (World, U.S. History). The qualifications to work in the program are a Bachelor's degree in a related subject and previous experience with youths. All applicants must also be able to work from July 3rd through August 10th. The program is set up for the teachers to teach three morning classes, assist in two recreational activities, and live on-campus in Carlsbad, California. Teachers will also be asked to assist in supervising weekend excursions to Southern California attractions, as well as attend to periodic dorm supervision duties during some evenings and weekends. All participants will be provided with room and board as well as \$2,200. This is a terrific experience working with youth in a California seaside academic program. To apply, please send a resume and cover letter to the attention of: Ms. Eowyn Schutze, Academy by the Sea, P.O. Box 3000, Carlsbad, CA 92018-3000. For more information, please call (619) 434-7564 or Fax (619) 729-1574.

The **Lindsay F. Kimball Research Institute of New York Blood Center** is announcing openings for undergraduate science students for summer research positions in New York at the Research Institute. Participants will be provided with a \$1,500 a month stipend plus housing for the summer. Transportation to and from New York,

however, will not covered. If you are interested, the Deans' Office has a list of the research opportunities at the Research Institute. To apply, please send a curriculum vitae by April 5th, 1996 to: Jan W.M. Visser, D.Sc., New York Blood Center, 310 E. 67th St., New York, NY 10021.

The Deans' Office is accepting proposals for the **Monticello Foundation and the Robert and Delpha Noland Summer Internships**. Three to five Caltech undergraduate women (current freshmen, sophomores and juniors) will be given an opportunity to participate in research projects outside the Caltech-JPL community for ten weeks during the summer. Each student will receive a \$3,600 stipend. Applicants are required to identify the projects in which they wish to participate. All arrangements with the principal researcher will be the responsibility of the student. Interested? Identify a sponsor for your experience at a research facility for a ten-week period. In a short essay, describe your project, and submit it to the Deans' Office, 102 Parsons-Gates, along with two faculty recommendations. Proposals are due **Monday, March 4th, 1996**.

The **Morris K. Udall Scholarship and Excellence in National Environmental Policy Foundation** has created a scholarship program to attract students into careers in environmental public policy, health care, or tribal public policy. Scholarships are awarded on the basis of merit to students who are sophomores or juniors during the 1995-96 academic year and who have excellent academic records and demonstrated interest in and potential for careers in environmental public policy or are Native Americans or Alaska Natives who have excellent academic records and demonstrated interest in and potential for careers in health care or tribal public policy. The scholarship covers eligible expenses for tuition, fees, books, and room and board to a maximum of \$5,000 for one academic year.

From the Financial Aid Office, 515 S. Wilson, second floor:

The **Zonta Club of the Santa Clarita Valley Area** is offering two \$1,000 undergraduate scholarships to female residents of the Santa Clarita Valley. Applicants must be full-time during the 1996-97 academic year, and must have legal addresses within the Santa Clarita Valley. Applications are due **March 1, 1996**.

The **Marin Education Fund** announces the opening of its 1996-97 undergraduate grant application process. To be eligible, applicants must be undergraduates, must be enrolled at least half-time, and must be residents of Marin County. Financial need will be considered, and copies of 1995 tax returns will be required. For applications or additional information, call the Marin Education Fund at (415) 459-4240. Applications are due **March 2, 1996**.

The **American Scandinavian Foundation of Los Angeles Scholarship Program** announces five 1996-97 scholarships of \$1,000 to upper level and graduate students in arts and science, music, and business. Applicants must have strong academic qualifications, demonstrate some connection to Scandinavia either through field of study, life experience, or heritage, and must show financial need. To request an application form, write to: ASFLA Scholarship Program, c/o James Koenig, 3445 Winslow Drive, Los Angeles, CA 90026. Applications must be submitted by **March 15, 1996**.

The **Society of Women Engineers, Los Angeles Section (SWE-LA)** is pleased to announce their 1996-97 scholarships. In addition, they are announcing a new Microsoft Scholarship specifically for software engineers. Scholarships are available to all women in undergraduate and graduate engineering programs, with special consideration given to those students under unique circumstances and financial need. Applicants must have at least a 3.5 GPA to be eligible. The amount of each scholarship will be \$1,000. All applications and supporting materials must be **postmarked no later than March 30, 1996**.

The **Coalition of Higher Education Assistance Organizations (COHEAO)** is accepting applications for three \$1,000 and six \$100 scholarships. Interested applicants must complete and mail a postcard (available at the Financial Aid Office) in order to receive an application. **Postcards must be mailed by April 1, 1996, and the completed applications must be submitted by June 1, 1996.**

The **American Association of University Women (AAUW)** will be awarding several scholarships of \$500-\$1,000 to female college students who will be juniors or seniors in 1996-97, and who have lived in the San Ramon Valley. Applicants will be evaluated on the basis of scholarship, achievement, educational goals, financial need, and campus or community involvement. For more information and an application package, send your request with a \$64 stamped, self-addressed large envelope (9 x 11 1/2) to: Charlotte Orren, 248 Belaire Court, Danville, CA 94526. Applications must be **postmarked by Tuesday, April 2, 1996**.

The **John Gyles Education Fund** is offering financial assistance to students in Canada and the United States. Canadian or American citizenship and a minimum 2.7 GPA are required. Selected students will receive up to \$2,500. **Deadlines for 1996 are April 15, June 15, and November 15** (postmark date). To receive an application, send a stamped (U.S. \$32), self-addressed No. 10 envelope to: The John Gyles Education Fund, Attention: R. James Cogle, Administrator, P.O. Box 4808, 712 Riverside Dr., Fredericton, New Brunswick, Canada E3B 5G4.

Scholarship applications are now available from **The Jewish Community Foundation and The Jewish Vocational Service** for 1996-97 academic year scholarships. Applicants must be Jewish students who will be sophomores, juniors, or seniors in 1996-97, and must have financial need. Applicants must also be legal and permanent residents of Los Angeles county, and must have a minimum 2.5 GPA. To receive an application, write to: Jewish Vocational Service, Room 413, 6505 Wilshire Blvd., Los Angeles, CA 90048 before March 1, or call (213) 653-2858. Completed applications are due **April**

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