

photo by Mike Benedetti

H. Jeff Kimble, physics professor, serves during last Saturday's annual match between the Faculty and the Caltech Varsity Tennis Team. The tennis team, playing without #1 Chandra Das, fell to the mighty faculty team 8-4.

## Judy Gorman to perform concert at Caltech

by Caltech Public Relations

To help commemorate Women's History Month, the Organization for Women at Caltech will bring New York-based singer and songwriter Judy Gorman to the Caltech campus on Thursday, March 10, from 7 to 9 P.M. in Dabney Lounge. The concert is co-sponsored by the Caltech Y, the Office of Public Events, and the Caltech Women's Center.

Judy will bring a unique blend of artistry, history, and social commentary to campus when she presents a performance workshop on women and music from ancient to contemporary times. Folksinger Pete Seeger has said of her, "Judy

Gorman is a wonderful singer and musician . . . always thinking how to hit the nail right on the head, to shoot the arrow straight to the heart of the matter."

Gorman, who is making her second appearance at Caltech, has lectured and performed throughout the world. In concert, Gorman touches on a wide variety of music illustrating aspects of women's lives. These include songs of hardship and endurance; songs of rebellion and self-affirmation; and songs that portray the struggle for social, political, and economic opportunity. The event is free and open to the public. For more information, call x3227.

## Dabney cops disco trophy for first time in a decade

by Anil Roopnarine

History was made last Sunday, as a valiant Dabney team defeated a struggling Fleming side for the Discobolus trophy. Dabney House has not had the Discobolus trophy in its possession since 1985.

In Brown Gym at 6 P.M., Flems and Darbs gathered to watch. Faulty electrical equipment delayed the action till around seven. Each team had five competitors, each of whom would fence one match. The Darb line up was  $\pi$  Qan, Laurent Stadler, and Neal Dalal on foil, with Keith Seitz and Graham Cummins on sabre. Fencing foil for the Flems were Morgan Davis, Brian Atwood, and Forrest Long. Sabre one was Austin Collins, frosh of outstanding talent. Sabre two was Matt Metz, of unknown talent. The Darbs seemed to have a good chance of winning, but the Flems might just be able to pull it off. Silence. The first bout was about to begin. Foilists ready to fence?

The first bout was between Dalal and Forrest Long. The audience followed the action closely. The bout started out even, but the experience of Neal Dalal shone through as the points were tallied. Neal had won the bout 5-3, 5-3.

The second foil match featured

Laurent and Trey Atwood. The more aggressive was sure to win. Shedding his Darbish gentleness, Laurent took the closely contested bout 5-3, 5-4. Next would come the first sabre match. Could Graham make the Darb victory complete? Or would Matt Metz turn the tables on the Darbs?

The two sabreurs charged at each other with surprising speed. Their collision both shocked the audience as well as confused the referee. Simultaneous attack was the verdict. Priority to the right. On the match went, as the two clashed with relentless vigor. The audience seemed as clueless as the author about the decisions of the referee, but at the end of the match, Dabney had won the challenge.

The remaining two matches were just formalities. In the first,  $\pi$  Qan faced off against Morgan Davis. Just who was going to win? One would not have known the final outcome, if one judged solely by position control. They pranced up and down the fencing strip like penguins in heat. Clearly,  $\pi$  Qan was in control. But when the tags were made, and the sensor checked, the light favored Morgan. Morgan took the match 5-3, 5-4, to rousing applause from the Flem supporters.

see DISCOBOLUS, page 6

## It's Part of Our Past: more on the Morehouse Men

by Edray Goins

Note: This is seventh in a series of vignettes, to be published throughout the term, on the history of Caltech's under-represented students.

When William D. Hutchinson received his permanent housing assignment, he was paired with a Black roommate, Richard McGriff. It is questionable whether this happened by chance; there were few Black students at the Institute, and Hutchinson never stated any preferences beforehand. The two got along nonetheless. McGriff, like Hutchinson, was from a Historically Black College; he had attended Florida Agricultural and Mechanical University (Florida A & M).

Hutchinson and his roommate often went out into the local Black community. One time, they went to a bar in Old Pasadena. The two were thrown out immediately, because they were Black.

There was not much of a social life at Caltech. There was an Inter-Nation Association that catered primarily to international students. There were no Black women students—either undergraduate or

graduate—at the Institution, and very few Black men. There were no undergraduates, and only a handful of graduates. Hutchinson found going to church to be the most helpful social event. Even so, he could not do much until he bought a car.

Hutchinson was at Caltech when Dr. Martin Luther King, Jr. visited Caltech in February of 1958. He did not have an opportunity to see him speak, but remembers the informal discussions he had with students. One had held on the tennis courts near the Athenaeum.

Later that year, Hutchinson decided that he wanted to live off-campus in the Black community. Over his years at Caltech, he made a friend that happened to be a lawyer from his alma mater, Morehouse College. The two would often discuss racial issues. At the time in Pasadena, there were restrictive covenants that kept Blacks from living in certain areas. Because Hutchinson had an "ambiguous" background (he says that he does not obvious Black features), he decided to attempt to rent an apartment. When he had evidence of racism, he would have grounds for a lawsuit.

By 1960, Hutchinson had his evidence. He rented his apartment for several weeks, but when the landlord found out he was Black,

he was evicted. He and his friend went to court and won. Under the Fourteenth Amendment, the landlord could not evict anyone on the basis of race. Hutchinson helped to make great advances for the Black community in Pasadena.

Even with his social adventures, Hutchinson made great advances in science. For his doctoral thesis in 1959, he solved a fundamental problem in sickle cell anemia. He worked under Jerry Venegrad, who also worked under Linus Pauling (Pauling won the Nobel Prize in 1954, just five years before). Hutchinson showed that sickle cell anemia was caused by an aberration in the base chain of DNA. Today, this result is used as a fundamental fact in sickle cell research, and Hutchinson feels proud that he was the first to discover it.

Hutchinson was graduated with a master's degree in 1957 in Chemistry, as well as a doctorate degree in 1960. He is presently manager of laboratory operations at Rockwell International in Canoga Park, and lives here in Altadena.

Dr. Hutchinson continues to make great advances for Blacks here in Pasadena. He is part of Special Friends, an organization that mentors Black school children in Altadena, and has worked closely with the National Society of Black Engineers here at Caltech.

Sign-ups are now posted for the appointed ASCIT offices of California Tech Business Manager, little t Editor(s), and little t Business Manager. If you are interested in one of these offices, please print your name on the sign up sheet (on the east side of Winnett, by the MOSH's office). The sign-up period for the Tech Business Manager closes on March 1; the deadline for the other two is March 29. Information about the duties of each office can be found in the little t and by the sign-up sheet.

### Blew

will be playing their fluid tunes at Blacker's House o' Da Munth Klub this Saturday at 9:15 P.M. Fans are invited to follow the band to their second gig of the night, a party at an unknown location, where they will be playing the same stuff all over again.

## The California Tech

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# letters to the editor

## Conference needs zeal

I am writing in response to Zackary Berger's article (Student-Faculty Conference Retrospective) in the February 11 *Tech*.

While Berger's article was factually correct, it did little to make students and faculty enthusiastic about this upcoming Conference.

I can only speak for the Quality of Teaching committee, but I feel obliged to point out that this committee (consisting of six professors, including two Executive Officers, and five undergraduates) has been hard at work since last October, developing concrete propos-

als to discuss at this conference.

It is not our intention to simply make these proposals and wait for "someone else" to implement them, as has been done too frequently in the aftermath of past Faculty-Student Conferences. This committee (and I'm sure this goes for the other committees as well) will work hard with the students, faculty, and administration in the coming months to implement whatever proposals emerge from the Conference.

I strongly encourage all students and faculty to join us next Friday in Baxter Lecture Hall to voice their opinions and offer constructive feedback about the problems that jointly face the students and fac-

ulty of this Institute. If we work together, rather than trying to blame our problems on any particular person or persons, we will make strides towards making Caltech a better place to learn and a better place to live.

Ben McCall

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](mailto: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.

## Should fraternities be allowed at Caltech?

by Zack Berger

### In favor of fraternities

What is a fraternity? It's a club. It might be a club with national affiliations. It might—if it charges dues from members—not even have to be funded by ASCIT. It might be a club that—God forbid—meets with students from other colleges and one in which students from different houses might interact.

As long as the fraternity doesn't try to establish separate housing for its members, what harm will it do to the house system? Already existing service organizations such as the Y (established in 1916, before the houses) have done little to bring down the houses. There are even organizations on campus which must follow rules dictated by national organizations: IEEE comes to mind. It's been sixty years since the first houses; despite the existence of student clubs, the 7 still stand as separate entities.

Fuzzy premonitions about the harm fraternities would cause to the houses simply won't do unless strong arguments back them up. But fuzzy premonitions are all that have been voiced: that the national organization will somehow sap the self-governmental will of the student body; that fraternities somehow make Caltech "like other schools." Why will the house system be damaged? Why will stu-

dent government be in danger? No answer to the former; no answer, either, to those campus organizations which manage to follow national bylaws without their members becoming zombies.

Approve the fraternity if only to counteract these paranoid premonitions.

### Against fraternities

Here's the argument: The houses are socially insufficient. So are relations between Caltech students and those of other colleges. Moreover, contacts between Caltech students and alumni are few and far between. Allowing fraternities on campus (the specific proposal is for a campus "colony" of the service fraternity Sigma Phi Epsilon) would help to solve these problems; furthermore, characteristics of fraternity life would aid Caltech students in other ways. Fraternities would not at all damage the house system.

Many have said that the house system is insufficient in its social molding of undergraduates; in fact, a 1988 President's report condemned the houses for encouraging the "narrowness and immaturity" of incoming frosh. What's this group's reasoning? "The current house system tends to divide the . . . students according to house affiliation, and there is relatively little interaction between members of different houses." That the

house system divides students by houses is a truism. "Relatively little interaction" among members of different houses? Mostly true—but what would fraternities do to address this? The house boundaries that fraternity membership might transcend would be replaced precisely by those of the frats. Assume that the fraternity does not plan to establish separate housing for its members—because such housing would weaken the honor system and, in its separateness, do little to increase the sum total of undergraduate interactions. Given that, what will this fraternity do to increase interaction that other groups (the Y, CCF, Newman Center, chamber music, clubs in general) do not?

Caltech students don't get out much. The potential frat boys of the proposal realize this: "Though all of us . . . have found means of recreation in the Pasadena area"—thank God—"few of us have had any real contact with people from other colleges." "Membership in Sigma Phi Epsilon," they continue, "would allow us to share ideas and make new friends with members from other chapters." No tenet of the Honor System, nor any rule of the Caltech administration expressly forbids Caltech students from getting out, finding means of recreation in the Pasadena area, and generally being social. What forbids it, then? Caltech's



Ernest Tomlinson

# Ernest Explains

Dear Ernest,

Is some kind of cosmic ill-will responsible for the recent chain of disasters that has befallen the city of Los Angeles?

—Worrying in South Mudd

Dear Worrying,

Wankers eating snacks.

Dear Ernest,

I just woke up from a 20 year nap. Now, I need to find a way to drop the classes that I was taking while I was enrolled when I fell asleep. However, when I went to find my advisor, I found out that he had passed away in the interim. Then, I tried to find the Dean, but he had retired, and his replacement was a knucklehead. Finally, I went back to my room, which had been deserted for 20 years, and what did I find under my bed but a human head! What can I do, Ernest? My academic life is a shambles, my finances are gone, due to back rent for my room on campus, and there is a severed head under my bed. Is there any way to escape from my predicament?

—Sleepy

Dear Sleepy,

Eight hundred dollars.

Dear Ernest,

Why am I forced to listen to Led Zeppelin's "Hot Dog" over and over, without end in sight?

—Frazzled

Dear Frazzled,

You are living in a hell of your own making. Rather than bemoan your fate, you should learn to enjoy "Hot Dog"—revel in the bouncy interplay of the piano and bass; swoon as Robert Plant sings gangly duets with himself in two different registers of falsetto; laugh at the oh-so-clever lyrics. If you make an existential choice to pour the very core of your being into the song, you will find freedom.

workload; Caltech's academic hellfire. What will a fraternity do to ease this load? Unless allowing fraternities will let Caltech become more like USC or UCLA, nothing.

This fraternity, apparently, is a service fraternity. Then, perhaps, none of the objections above apply. The fraternity will merely be a means for Caltech students to participate in service to the community. Why, then, can its potential Caltech members not simply volunteer at the Y, the campus's major service organization?

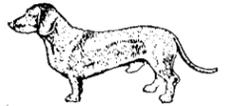
Most problematic is the "leadership structure" of the proposed fraternity. Under it, regional directors ("trained staff member[s]")

would visit on a monthly basis to help with chapter organization and administration. Are not administrators like Kim West precisely just such "trained staff members" who we fear will subject Caltech students to outside control? Why must we allow a national organization to dictate the behavior of Caltech students?

No doubt the aims of the national organization ("virtue, diligence and brotherly love") are laudable. Why must such values be pursued outside of the house system—so as to alienate other undergraduates—and under outside control, so as to begin to erode what self-government we enjoy?

## The California Tech

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**Bosnia**  
Bosnian Serb soldiers delayed for the fourth day in a row following a NATO order to turn over all of their artillery.

**Indonesia**  
An earthquake killed at least 102 and injured 500 in the Indonesian island of Sumatra.

**Mexico**  
General Dominguey, a former Chiapas governor seized by the Indian rebels, will be released by his captors on Wednesday.

**North Korea**  
North Korea finally agreed on Tuesday to allow inspection of seven nuclear facilities. This was in an effort to avoid U.N. economic sanctions.

**Russia**  
The Russian Federal Nuclear and Radiation Safety Oversight Committee claims Russia is a hazard to human safety due to lack of

money and failure to follow safety regulations in regards to nuclear waste.

President Yeltsin supports British Prime Minister Major in promising to step up peacemaking efforts in Bosnia. Major visited Russia and offered his support to Yeltsin.

democracy.

**U.S.**  
Following accusations of his indirect involvement in the Tailhook scandal, Frank B. Kelso II (Chief of Naval Operations) resigned on Tuesday.

Secretary of Defense Perry claims that Bosnian artillery will not seriously threaten American planes should there be any air strikes made over Bosnia.

The U.S. is expected to accuse Japan of a telecommunication agreement violation. This accusation could lead to sanctions against Japan.

The U.S. promised approximately \$400 million in aid to Kazakhstan if they destroy their remaining nuclear weapons.

**Venezuela**  
Banco Latino, Venezuela's biggest bank, collapsed, leaving analysts wondering about the country's future.



**South Africa**  
The King of the Zulus is determined to rule over the largest ethnic group in South Africa. He plans to set up his own independent state. This development aggravates the conflict in South Africa and threatens the country's newly-established

## ASCIT BOD minutes, February 15

by David Derkits

Present: BOD (minus Karen Shih and Anandi Raman), David Derkits, Penny Sherman, Jennifer Trittschuh, Gavin Claypool, Miao Zhang, Thanh Truong, Andrea Cavalluzzo, Michael Kantner, Tatsuya Murase, Colin Humphries, Penny Muir, John White, Steven Skovran, James A. Honaker.

### New Business

- VSA requests funding (\$300) for an upcoming party. It has been approved by the administration and has received funds from several other organizations. Motion to assist with \$200 passes (6-0-0).

- Last weekend, the bike rack on the top of the ASCIT van (in use by CCSA) was badly damaged when it failed to clear the ceiling in a parking structure. The Bike Shop and Velo are here with the bad news. Initial damage estimates are about \$350 for the bike rack; the van is O.K. Gisela and Moeen will talk with CCSA and investigate. The Bike Shop will check the insurance policy.

- Dabney raises concerns over the \$800 ASCIT appropriated to OPI at the last meeting. Blacker

and Fleming are here for the same reason. They initially argue that they should receive similar levels of support for their parties (two were held the same day as OPI, Fleming's was a few weeks earlier). The BOD expresses its dislike of retroactive funding, and also argues that its decision to fund OPI is not a precedent. Mike and Moeen explain that if the other two houses had come to last week's meeting to request money for their parties, they would likely have received some. Discussion briefly shifts to the Budget Meeting and how money is appropriated to clubs and other organizations. The BOD clarifies that the Budget Meeting is mainly for general club grants; House requests and major club activities are usually presented to the BOD a few weeks before the event. Concerns are then expressed by some present that they don't understand the method the BOD uses to appropriate money. Mike mentions that the BOD is aware of this and is working to make the process clearer in the future. Moeen suggests a resolution for the bylaws which would outline the procedure for special events funding, and later decides to pre-

pare one for next week. Fleming suggests that the Executive Social Director should be in better communication with the Houses. Blacker and Dabney mention that they have parties coming up this weekend and would like to request funding for them (see below). After hearing the above arguments, the BOD holds a closed-door session and discusses the amount of money remaining in the budget, retroactive funding, how many people were at the other parties, and how well advertised they were. The decision is made not to retroactively fund the past parties.

- Dabney picks up its \$100 non-alcoholic money for their Drop Day party.

- Dabney requests additional funding (\$400) for their Drop Day party, to be held this weekend, on the 19th. Moeen asks if they have checked other sources for money; they promise they will. After discussion, the BOD approves \$150 (5-0-1).

- Blacker presents a budget for

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**CRIME AND INCIDENT BEAT**  
by Gypsy Achong

Crime Tip: There have been many suspicious people on campus. Please be careful to lock doors behind you when in labs late at night. During the day be alert when in deserted areas.

2/8 1:00-4:00 P.M. A leather check book was stolen from an office in Crellin. It was in an unlocked cabinet at the time. \$35

2/11 2:30 P.M.-9:00 A.M. Six hundred pounds of copper wire was stolen from the northwest loading dock of Beckman. \$1000

2/14 7:00 A.M.-2:30 P.M. A bike was stolen from the secured garage of 107 S. Holliston. The chain securing the bike was cut. \$400

2/14 9:00 P.M.-2/15 11:00 A.M. A hard disk drive, RAM computer chip and a video card were removed from a room in Sloan. The room is on combination lock. There was no sign of a forced entry, and the computer was replaced as if nothing was touched. The chain and lock that secure the computer were also undisturbed. \$1850

2/16 A student observed someone jumping down from the wall south of Blacker. The man then reached to the top of the wall and retrieved an object which he covered under his jacket. The student approached the man and asked him what he was doing. The suspect raised his arm as if to hit the student who promptly sprayed him with mace. The suspect quickly got into a car and drove off leaving a halogen floodlight which he had stolen from Blacker behind. The man was white, in his 40s, 6'2", 190 lbs., and had light brown hair and brown eyes.

**This week's total: \$3285**

their Hovse o' Da Munth Party, which will be held this Saturday, the 19th. They are asking for \$250. A motion to give Blacker \$100 is passed (2-1-3).

- Gavin notes that it would be nice to have the Tech Business Manager for the coming year appointed as soon as possible, as this would give the manager more time to get acquainted with the job. Since the new BOD will only have two weeks before spring break, the current BOD decides to begin the appointment process by opening

the nominations. Nominations for the appointed ASCIT offices of Tech Business Manager, little t Editor, and little t Business Manager are opened, effective immediately. The sign up sheet is posted on the east side of Winnett, outside of the MOSH's office.

### Treasurer

- Ewald reminds the BOD that some of the surplus should be left for the new BOD, as was the case last year.

see MINUTES, page 7

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\$2 for all others

Next week's movie: **THE RUSSIA HOUSE**

# Explanation of the counting process

by David R. Derkits

Presented in the accompanying figure are the numerical results for all offices elected in the two recently-completed ASCIT elections. As the new ranked-preferential system was used in these elections, the meaning of the numbers may not be intuitively obvious. For this reason an example has been included. If you have any questions or comments about the results or their interpretation, please do not hesitate to contact me. I would like to thank Ben McCall for supervising the count process in the second election as Acting Chairman. As usual, I can be reached at x1402, dderkits@cco, MSC 553, or Page 130.

## Example—the race for ASCIT President

The Count Process proceeded as follows:

1. We found the total number of ballots cast in the election. In this case, there were 420 ballots.

2. We separated (distributed) the ballots into several piles based on the first-rank (most preferred) votes. The piles included one for each candidate, one for Matt Metz (a write-in candidate), one for other valid write-ins, one for "NO", and

one for Abstentions. The results were:

Angie Marie Bealko	169
Christopher DuPuis	45
Jon McDunn	104
Matt Metz (write-in)	46
Other Write-ins	2
NO	30
Total (non-abstaining)	396
Abstain	24
Total	420

(Note that the total checks with part 1.)

3. No candidate has a majority of non-abstaining votes (Bealko is highest with  $169 \div 396 = 43\%$ ), so—following to the bylaws—we took the NO pile and redistributed it. This means that, for each "NO" ballot, we looked at the second rank and transferred the ballot to that pile. If the second and all lower ranks were blank, the ballot became an abstention. The new results were:

Bealko	169	173
DuPuis	45	48
McDunn	104	108
Metz	46	46
Other Write-ins	2	2
NO	30	Redist.
Total (non-abstaining)	396	377
Abstain	24	43
Total	420	420

4. Still, no candidate has a majority of non-abstaining votes. The bylaws state that, at this point, the candidate with the fewest number of votes shall be redistributed. Clearly, the "Other Write-ins" had the fewest votes, so they were redistributed. The new results were:

Bealko	169	173	174
DuPuis	45	48	48
McDunn	104	108	108
Metz	46	46	46
Other Write-ins	2	2	Redist.
NO	30	Redist.	
Total (non-abstaining)	396	377	376
Abstain	24	43	44
Total	420	420	420

5. No candidate has a majority, so the candidate with the fewest votes, Metz, was redistributed.

Angie Marie Bealko	169	173	174	184
Christopher DuPuis	45	48	48	54
Jon McDunn	104	108	108	115
Matt Metz (write-in)	46	46	46	Redist.
Other Write-ins	2	2	Redist.	
NO	30	Redist.		
Total (non-abstaining)	396	377	376	353
Abstain	24	43	44	67
Total	420	420	420	420

6. At this point, Bealko had 184 votes, which is 52% of the total of non-abstaining votes. As she has a majority, she is the winner, and the count process goes no further.

# 1994 ASCIT ELECTIONS NUMERICAL RESULTS

## ASCIT PRESIDENTIAL ELECTION January 24, 1994—420 Ballots

**PRESIDENT: ANGIE MARIE BEALKO**

Angie Marie Bealko	169	173	174	184	(52%)
Christopher DuPuis	45	48	48	54	
Jon McDunn	104	108	108	115	
Matt Metz (write-in)	46	46	46	Redist.	
Other Write-ins	2	2	Redist.		
NO	30	Redist.			
Total (non-abstaining)	396	377	376	353	
Abstain	24	43	44	67	
Total	420	420	420	420	

## VICE-PRESIDENT/BOARD OF CONTROL CHAIRMAN: CHRIS BRYANT

Chris Bryant	250	(72%)
Tim Nelson (write-in)	14	
Other Write-ins	13	
NO	75	
Total (non-abstaining)	352	
Abstain	68	
Total	420	

## TECH EDITORS: CHERISH BAUER, JEFF DENNISTON, TOM GRUNDY, WEI-HWA HUANG, and KEN LEE.

Team of five	224	(69%)
Momo <sup>5</sup> (write-in)	19	
Other Write-ins	1	
NO	82	
Total (non-abstaining)	326	
Abstain	94	
Total	420	

## ASCIT OFFICERS ELECTION February 7, 1994—446 Ballots

**SECRETARY: DAVID R. DERKITS**

David R. Derkits	176	(55%)
David Plurad	89	
Write-ins	3	
NO	52	
Total (non-abstaining)	320	
Abstain	126	
Total	446	

## TREASURER: EWALD HUEFFMEIER, Jr.

Ewald Hueffmeier, Jr.	214	(64%)
Michael Ru	66	
Write-ins	4	
NO	48	
Total (non-abstaining)	332	
Abstain	114	
Total	446	

## INTERHOUSE COMMITTEE CHAIRMAN: ERIC SLAYBACK

Alan Blaine	21	22	22	Redist.			
Chris Buchner	70	72	72	78	Redist.		
Bryce H. Elliott	81	82	82	86	98	109	
Eric Slayback	126	127	128	132	150	169	(61%)
Stanley Grant III*	93	93	93	93	93	Redist.	
Other Write-ins	1	1	Redist.				
NO	22	Redist.					
Total (non-abstaining)	414	397	397	389	341	278	
Abstain	32	49	49	57	105	168	
Total	446	446	446	446	446	446	

## DIRECTOR FOR ACADEMIC AFFAIRS: FLORA HO

Flora Ho	333	(86%)
Write-ins	3	
NO	50	
Total (non-abstaining)	386	
Abstain	60	
Total	446	

## DIRECTOR FOR SOCIAL ACTIVITIES: CHRIS MARSH

Chris Marsh	198	(57%)
Greg Steiert	93	
Anandi Raman (write-in)	8	
Other Write-ins	2	
NO	48	
Total (non-abstaining)	349	
Abstain	97	
Total	446	

## UPPERCLASS DIRECTOR-AT-LARGE: PENNY SHERMAN

Brian Brewington	153	155	
Penny Sherman	172	175	(53%)
Write-ins	0		
NO	32	Redist.	
Total (non-abstaining)	357	330	
Abstain	89	116	
Total	446	446	

## FRESHMAN DIRECTOR-AT-LARGE: GINA SERRAIOCCO

Cailin Henderson	87	90	93	Redist.	
Josh Moats	47	47	Redist.		
Gina Serraiocco	88	88	106	133	(53%)
Elwyn "Tim" Uy	111	111	111	120	
Write-ins	0				
NO	24	Redist.			
Total (non-abstaining)	357	336	310	253	
Abstain	89	110	136	193	
Total	446	446	446	446	

## ATHLETIC MANAGER: LAURA E. VERHOFF

Scott Driggs	78	79	
Kumar Raman	51	51	
Laura E. Verhoff	165	166	(56%)
Write-ins	1	1	
NO	37	Redist.	
Total (non-abstaining)	332	297	
Abstain	114	149	
Total	446	446	

## BOARD OF CONTROL SECRETARY: ZACKARY BERGER

Zackary Berger	159	163	(57%)
Michael Pawson	113	118	
Write-ins	6	6	
NO	53	Redist.	
Total (non-abstaining)	331	287	
Abstain	115	159	
Total	446	446	

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4:00pm - 6:00pm

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Friday, February 25  
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Contact your placement center for an appointment, or send your resume to Applied Materials, 3050 Bowers Avenue, M/S 1826, Dept. CCTU221EL, Santa Clara, CA 95054. EOE.



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# Paul is dead

by Michael Kantner

Few artists are better live than on CD today. Even fewer have better live albums than studio albums. Usually, live albums are merely greatest hits collections with a couple of new songs and some applause mixed in. Unfortunately, *Paul is Live* falls into this last category. The songs, for the most part, are flat and lack the energy of the originals.

About half the tracks (10 of 24) are Beatles songs. These are among the most disappointing. The album opens with "Drive My Car," which is slightly more exciting than rush hour traffic. "We Can Work It Out" shows signs of brilliance, but does not live up to its potential. "Magical Mystery Tour" is performed well, but the background vocals clash with the music. "Here, There, and Everywhere" is the one bright spot among the Beatles' songs. It equals the original.

The other tracks range from sound checks to songs by Wings. Their quality is equally varied. "C'mon People" sounds more like a studio cut than a live recording. "Live and Let Die" is full of energy and on par with the original. The three soundchecks are the tracks of the album. They sound fun and relaxed, while the rest of the album feels forced. Unfortunately, since they are last, one must hear the rest of album first.

*Paul is Live* has its moments. It has been 30 years since the Beatles first played in America, and Paul cannot recreate the energy and sound of the past. He is at his best on the newer material and when having fun. The disc contains the following warning: "Tracks 22 and 24 were improvised at soundcheck and therefore may not be suitable for people of a critical disposition." They have it all backwards.

# Restaurant Review: Fosselman's Ice Cream Co.

by Chris Dean

Fosselman's makes the best ice cream in the free world. I have friends who tell me about Marianne's in Santa Cruz, or the hordes of people who rave about Ben & Jerry's, but they obviously have never been to Fosselman's.

Fosselman's is a small, family-owned-and-operated, ice cream emporium that I first learned about from a PBS special on local area restaurants. This special introduced me to Fosselman's and The Cobbler Factory (on Catalina Ave.) and I have never been disappointed in either of them.

What makes Fosselman's unique is its close attention to detail. They make their ice cream in small batches, using real ingredients, and the attention shows. The banana walnut actually tastes like bananas—creamy bananas without any chemical aftertaste. The rasp-

berry tastes like it was made with fresh raspberries using an old-fashioned hand crank. And the pumpkin tastes like, well, pumpkin pie right out of the oven—but cold, creamy, and delicious. One problem I often have with ice cream is that it sometimes leaves an unpleasant aftertaste, but never at Fosselman's. Recently they won two Gold Medals at the L.A. County Fair for their deep dark chocolate and dutch chocolate, the only company to win in the Premium Chocolate category. If Nature grew ice cream it would grow Fosselman's.

Fosselman's is also one of the few places that I know of that is able to prepare ice cream novelties. When I order a shake elsewhere, I usually get some lumpy mess with too much milk made by someone who wouldn't know a chocolate shake if it bit them in the butt (Coffeehouse excluded). At

Fosselman's, the person behind the counter is likely an owner, and cares that I get a smooth, thick, luscious shake.

The main drawback to Fosselman's is that it closes at 10:00 P.M. and it's located in Alhambra, which probably means you need a car to get there. The shop is what you would expect from an older business that primarily sells to restaurants, i.e., there aren't cows on the wall or tie-dyed T-shirts. And although they have some interesting selections like lychee, prickly pear, and ginger they haven't yet realized what a good idea flavors like Ben & Jerry's Heath Bar Crunch are.

I love Fosselman's ice cream and that's why I decided to do my first review on it. I obviously have gone past all point of reason and can't say enough good things about it, but no description can compare to actually trying some. I recommend

banana walnut, raspberry, pumpkin, and dutch chocolate. The margarita mixes are also excellent. If you can't get to their shop, Green Street Café is the nearest restaurant I know of to Tech that has Fosselman's, but they have very limited flavors and aren't nearly as fresh. I've been told that Hamburger Hamlet's Cinnamon Crunch is also from Fosselman's.

Using the *little t* rating system: Fosselman's Ice Cream Co., 1824 W. Main St., Alhambra, (818) 282-6533. ★★★★★ ☺ ♪ ☺

Directions: Los Robles to the Atlantic/Garfield Y, Atlantic to Main, Main west to Fosselman's. Fosselman's is on the left next to the First Interstate bank. If you reach Target, you've gone too far. Hours: Monday-Saturday, 11:30 A.M.-10 P.M.

Send suggestions for restaurant reviews to Chris Dean, MSC 211, ctdean@cco, or 577-5401.

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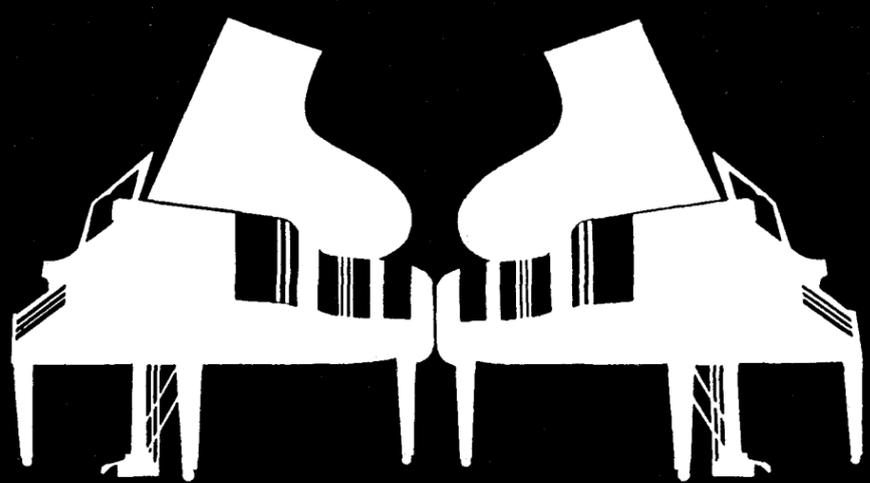
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# sports

## Beaver Basketball in Stretch Drive

by Bryce Elliott

Having played Occidental very close the first time through SCIAC, Coach Victor's team was looking forward to meeting the Tigers in Braun Center for a rematch. At halftime, the Beavers were very optimistic about their chances, though down 59-44. George Papa, playing like a man possessed, had 20 first half points on eight of thirteen shooting. In the second half, however, the visiting Tigers began raining down three-pointers, as they had in the first meeting between the two squads to pull away 115-64. There were bright spots for Caltech. Occidental's All-American Blair Slattery was held

to a season-low 7 points, while Papa finished with 31. "Sneaky" Steve Tsai had 15 points and five assists, but was not high assist man. Everyone seemed determined to dish to Papa, as Josh "MJ" Moats collected six assists and Todd Gottula five.

The Beavers regrouped on Wednesday to take on Division III's top scoring offense at the University of Redlands. Caltech put themselves in a hole with turnovers at half and never really recovered. Papa turned in a typical 23 point, eight rebound performance. Teammates Tsai and Moats added 12 and 11, respectively. John "Pimp Daddy" Parks once again showed his skill on the glass, pulling down 15 rebounds.

Saturday night will be Caltech's best chance for a SCIAC victory this season. The Whittier Poets, 2-9 in SCIAC, visit Braun Center at 7:30 P.M. The game should be as exciting as any in Braun this year, so get your seat early. Caltech starts its last week of play this season with the Cal Lutheran Kingsmen on Monday in Braun. Have you ever wondered how good a Division III team can get? The Kingsmen are currently ranked first in the nation, so if you want to catch a shot of the country's best non-scholarship basketball team, show up at 7:30 P.M. The final game of the season for the Beavers is Thursday night at Claremont-Mudd-Scripps.

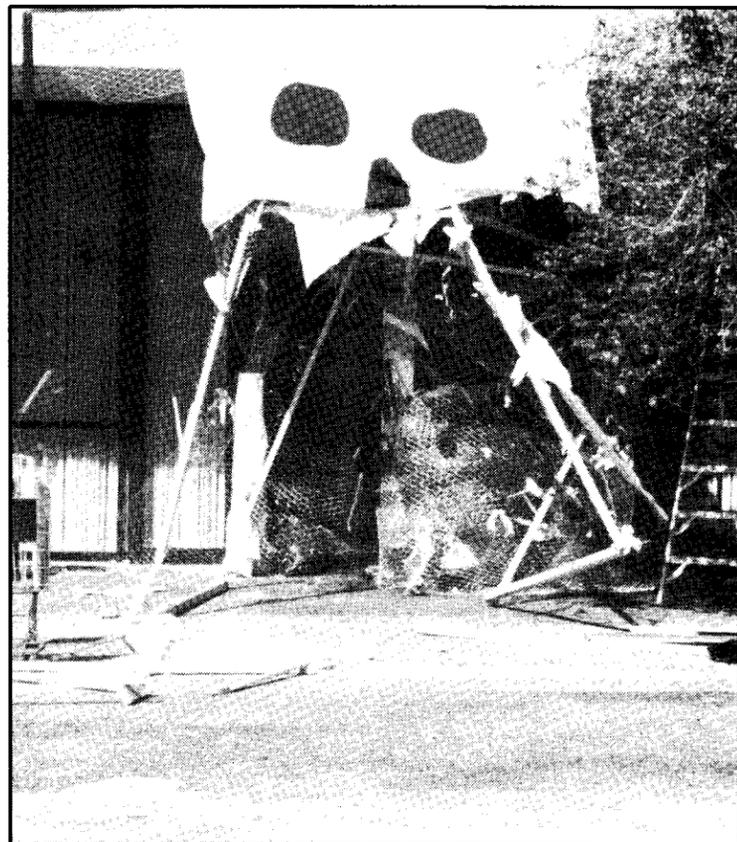


photo by Nelson Escobar

A gaping skull guards one of the entrances to Ruddock House as a part of the decorations for its annual OPI party.

## Caltech Velo beats USC

by Michael Kantner

On the weekend of February 12-13, Caltech Velo competed in the two Long Beach Criteriums. Earning 4 points over the weekend (the winning team had several hundred), Caltech finished 11th out of the 12 schools competing. USC finished last with no points.

On Saturday, the first race of the season, Jody White competed in the Women's B race, and Michael Kantner competed in the Men's C. In her first race ever, Jody finished about 15th. A mental error early in the race kept her out of the top 10.

Michael was in the top 10 going into the final turn of the Men's C race when he crashed. He finished the race, but did not place.

On Sunday, Marcus Chen raced in the Men's D, and Michael raced in the Men's C. Marcus had bad position from the start, and was stuck at the back of the pack. Unable to see the leaders, the group at the back slowed, and fell off the pace. About halfway through the race, he was pulled for being out of contention. Michael had much better luck, he finished 9th in the Men's C race and earned 4 points for Caltech.

For more information on collegiate cycling, contact Michael Kantner at x4882 or cycling@cco. One day racing licenses are available, and there are races for all skill levels.

Upcoming Collegiate Races:

February 19: Mt. Baldy Time Trial (hosted by Cal Poly Pomona)

February 20: Cal Poly Pomona Criterium

February 26: Claremont Colleges Criterium

February 27: Glendora Mountain Road Time Trial (hosted by Claremont)

continued from page 1

## Discobolus

It was now time for the long-awaited final match, between Keith Seitz and Austin Collins. Both are on the CIT sabre team, the former the captain, the latter a talented frosh. Prior to the disco match, each had beaten the other. Would Collins's talent give him the edge over Keith's experience? The audience waited in anticipation. Then they began. What resulted was an awesome display of fine blade work from both fencers. But, in the end, experience had the upper hand. Keith took the first set easily 5-1. In the second, Austin showed why he was on the sabre team. He tied

the score 4-4. But then Keith put the bout away, with a quick flick and excellent defense. The bout was over 5-4. Dabney had won the meet 4-1.

Soon the trophy will be up in another challenge. Dabney has accepted a Ruddock challenge in the luge. Will the trophy remain in its rightful home, or will it migrate to the frigid North?

*Editor's Note: Although it is not the Tech's custom to print the results of Interhouse athletics, we felt that Dabney's Discobolus win was newsworthy, and served well by Mr. Roopnarine's unique journalistic style. If you would like to submit articles on other Interhouse games, we will consider publishing them.*

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continued from page 3

# Minutes

## President

• Office hours in SAC 64 for the ASCIT President are 4-5 P.M. every Monday, and 2-3 P.M. every Tuesday through Friday.

• Moeen reminds the BOD—especially the outgoing officers—that they should begin assembling their notebooks, which will describe their official duties to their successors.

## Director for Academic Affairs

• The Student-Faculty Conference is on track. It will be held on Friday, February 25, from 10:00 a.m. to 6:30 p.m. in Baxter Lecture Hall. Questions should be directed to Flora Ho, x6274 or floho@cco.

## IHC Chairman

• Apparently, the new parking structure will not have any reserved undergraduate spaces. Moeen and Asif will look into this.

• Asif picks up the \$100 for the IHC dinner.

## Election Chairman

• The Election Cycle is officially concluded, and the numerical results are out. The new voting system was very successful. Changes, if any, will be made by the next BOD.

• The Manual of Election Procedures will likely be completed over spring break.

• Moeen requests a copy of the numerical results packet.

## BOC Chairman

• The Reps at Large process is on track; preliminary interviews will be conducted soon. Information regarding these appointments is posted on the bulletin board outside of SAC 64 (the ASCIT Office).

• The BOC is preparing a pamphlet for the faculty on reporting honor system violations.

continued from page 8

# Events and Notices

ted to the Financial Aid Office no later than 5:00 P.M. Wednesday, February 23, 1994.

The Society of Manufacturing Engineers has four scholarship opportunities for a full-time manufacturing engineering or engineering technology major who has completed 30 college credit hours. The application deadline is March 1, 1994.

The Marin Education Fund is announcing the opening of their 1994-95 grant application process.

To qualify for a grant, a student must be a Marin County resident, have low to moderate income, and be enrolled at least half-time in an approved undergraduate degree. Applications are available by calling the Marin Education fund at (415) 459-4240. Applications must be postmarked by March 2, 1994.

• The American Scandinavian Foundation of Los Angeles (ASF/LA) will distribute five \$1,000 scholarship awards to upper division and graduate students enrolled in accredited schools in the Greater Los Angeles Area. Students must have a demonstrated interest in Scandinavia. Applicants must have strong academic qualifications and

must show financial need. Two letters of recommendation, appropriate transcripts, and the completed application are due by March 15, 1994.

• SPIE—The International Society for Optical Engineering is once again offering scholarships for 1994. Applications may be made for the funding of any activity in the field of optics. They will be judged on the basis of the long range contribution which the granting of the award would make to optics and optical engineering. Awards WILL NOT be made on the basis of need. Applications must be received at SPIE Headquarters by April 1, 1994.

• Sunkyoung's second annual Global Leaders of Tomorrow Essay Contest has begun. Registration forms and information is available in the Financial Aid Office. Essays must be received by Sunkyoung no later than April 1994.

• The Danville-Alamo Branch of the American Association of University Women is offering several scholarships, from \$500 to \$1000. Applicants must be female students from the San Ramon Valley, and must have a junior or senior standing in September 1994. For application packets, write: Mrs. Janet Lather, 703 Contada Circle, Danville, CA 94526. The completed application must be postmarked by April 5, 1994.

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<p><b>EPSON</b> ActionNote 4SLC/33</p> <ul style="list-style-type: none"> <li>- 486SLC-33MHz</li> <li>- 4MB ram up to 8MB</li> <li>- 170MB IDE hard disk</li> <li>- 1.44MB Floppy drive</li> <li>- 9600 Fax/2400 modem</li> <li>- Carrying case</li> <li>- Logitech trackball</li> <li>- Microsoft DOS 6.0</li> <li>- Microsoft Windows 3.1</li> <li>- Win fax lite</li> </ul> <p><b>One Year On-Side Service</b> <b>Special \$1495</b></p> <p>486SLC2-50/180/fax \$1750 Color 486SLC2-50/180/fax \$2065 SubNotebook 4/120 \$1395 486DX-33MHz/170HD \$1995 Color DX-33 4/260 \$2650</p>	<p><b>Canon</b> NoteJet 486</p> <p>Computer+Printer =Notejet (2 in 1)</p> <ul style="list-style-type: none"> <li>- 486SX-25MHz</li> <li>- 4MB ram up to 12MB</li> <li>- PCMCIA II slot</li> <li>- 80MB IDE hard disk (135MB, 185MB option)</li> <li>- 1.44MB Floppy drive</li> <li>- Built-in Bubblejet printer</li> <li>- 360 dpi</li> <li>- Canon hand held trackball</li> <li>- Microsoft DOS 6.0</li> <li>- Microsoft Windows 3.1</li> </ul> <p><b>One Year Road-Side Warranty</b> 80MB HD \$2195 135MB HD \$2425 185MB HD \$2595</p>	<p><b>MITAC</b></p> <ul style="list-style-type: none"> <li>- 486SX-25MHz (Intel inside)</li> <li>- 4MB ram up to 18MB</li> <li>- 120MB IDE hard disk</li> <li>- 1.44MB Floppy drive</li> <li>- Built-in trackball mouse</li> <li>- System Preloaded</li> <li>- Microsoft DOS 6.0</li> <li>- Microsoft Windows 3.1</li> </ul> <p><b>\$1299</b> <b>Color Notebook \$1870</b> <b>SubNotebook</b></p> <ul style="list-style-type: none"> <li>- Only 4 Lbs</li> <li>- 486SX-25MHz (Intel inside)</li> <li>- 4MB ram up to 20MB</li> <li>- Removable 120MB IDE hard disk</li> <li>- 1.44MB Floppy drive</li> <li>- PCMCIA II &amp; III</li> <li>- Built-in trackball mouse</li> <li>- System Preloaded</li> <li>- Microsoft DOS 6.0</li> <li>- Microsoft Windows 3.1</li> </ul> <p><b>\$1460</b></p>
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## CLASSIFIED ADS

FOR SALE—

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GREEKS & CLUBS—EARN \$50-\$250 for yourself plus up to \$500 for your club! This fundraiser costs nothing and lasts one week. Call now and receive a free gift. (800) 932-0528 ext. 65.

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

## This week special

<p> <b>Authorized Dealer</b> <b>Powerbook</b></p> <ul style="list-style-type: none"> <li>165 4/80 \$1625</li> <li>180 4/80 \$2050</li> <li>180C 4/80 \$2395</li> <li>145b 4/80 \$1350</li> <li>145b 4/120 \$1550</li> <li>Duo 230 4/120 \$1475</li> <li>Duo 270 4/240 \$2850</li> </ul> <p><b>Mac Quadra</b></p> <ul style="list-style-type: none"> <li>605 8/160 \$1215</li> <li>610 8/160 \$1350</li> <li>610 8/230 \$1695</li> <li>650 8/230 \$2175</li> <li>660AV 8/230 \$2095</li> <li>800 8/230 \$2450</li> </ul> <p><b>One Year Parts &amp; Labor Warranty</b> <b>\$895</b></p>	<p><b>C:M</b> 386DX-40MHz</p> <ul style="list-style-type: none"> <li>- 128K cache</li> <li>- 4MB ram up to 32MB</li> <li>- 250MB IDE hard disk</li> <li>- 3 1/2" &amp; 5 1/4" floppy drive</li> <li>- 14" SVGA 1024 monitor(.28)</li> <li>- 16 bit SVGA W/1MB</li> <li>- 2 serial, 1 parallel</li> <li>- Dual IDE FD/HD controller</li> <li>- 101 keyboard</li> <li>- 3 button mouse</li> </ul> <p><b>One Year Parts &amp; Labor Warranty</b> <b>\$1495</b></p>	<p><b>Canon Notebook</b></p> <ul style="list-style-type: none"> <li>- New Intel enhanced 486SX-25MHz</li> <li>- 4MB ram up to 12MB</li> <li>- VGA accelerator video card (3.8 Winmarks)</li> <li>- 120MB IDE hard disk</li> <li>- 1.44MB Floppy drive</li> <li>- 9600 Fax/2400 modem</li> <li>- Built-in trackball (Middle)</li> <li>- Battery hours: 2.5 to 5 hours</li> <li>- 110-240 automatic</li> <li>- 5.9 lbs</li> <li>- Microsoft DOS 6.0</li> <li>- Microsoft Works 3.1</li> <li>- MicroFax by Phoenix</li> </ul> <p><b>\$1495</b></p>	<p><b>Bondwell Notebook</b></p> <ul style="list-style-type: none"> <li>- 486SLC-33MHz</li> <li>- 4MB ram up to 12MB</li> <li>- 120MB IDE hard disk</li> <li>- 1.44MB Floppy drive</li> <li>- 9600 Fax/2400 modem</li> <li>- Battery hours: 4 hours</li> <li>- 4.7 lbs</li> <li>- Carrying case</li> <li>- MS Dos 6.0</li> </ul> <p><b>\$1295</b></p>
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\* Note: asterisks denote new announcements.

## Notices

**SURF's Up!**—SURF applications are now available in the SURF office, 1-37 Beckman Institute. There is also a list of projects and research sponsors for students who need help identifying a research sponsor. If you have questions about SURF, call the SURF office at x2885 or stop by. SURF proposals are due March 1.

## Events & Services

\* The Caltech Y presents **"Legendary Greats ... A Trip Through the History of Black Music"**, a noon concert celebrating African-Americans and their contributions to American music on Friday, February 18, at 12 noon in Winnett Quad. (Winnett Lounge if it's raining). Sponsored by the Caltech Y, Student Affairs, and the Caltech chapter of the National Society of Black Engineers.

\* The Caltech Y also presents the **"Ixtus" Drama Group—The History of Black Innovations in Science and Technology**, on Friday, February 25, at 12 noon in Winnett Quad. (Winnett Lounge if it's raining). Sponsored by the Caltech Y, Student Affairs, and the Caltech chapter of the National Society of Black Engineers.

\* The film **Glory** will be shown at the Pasadena Public Library's Central Library, Donald R. Wright Auditorium, 285 East Walnut Street. A rich, historical film chronicling the 54th Massachusetts, the first black volunteer infantry unit in the Civil War. Artfully focuses on both the 54th and their white commander, Robert Gould Shaw. The film is based on Shaw's letters. Stars: Matthew Broderick, Morgan Freeman, and Denzel Washington. Directed by Edward Zwick. Historical drama, rated R. Runs 2 hours and 2 minutes. To be shown on **Wednesday, February 23 at 1:30 P.M.** Info: Adult Services staff of the library at (818) 405-4037. Free!

**Caltech Velo**—The Caltech Bicycle Club meets every Thursday at noon 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 are welcome. We lead the following weekly rides, all meet in front of Winnett Lounge:

Monday 8:00 A.M. 25 miles, moderate pace  
Tuesday 12:00 P.M. 10-15 miles, easy pace  
Wednesday 2:00 P.M. Off road ride

Also other harder rides not listed.

Please contact the club in advance to double check the time of the ride. We also lead other rides which are not listed. For more information, contact Michael Kantner at x4882 or e-mail to [cycling@cco.caltech.edu](mailto:cycling@cco.caltech.edu).

**Gay/Lesbian/Bisexual support group** meets the first and third Tuesdays of each month at 7:30 P.M. in the Health Center Lounge. This confidential meeting is open to all Caltech community members looking for a supportive context in which to address questions and concerns about sexual orientation. Refreshments are served. For more information, call 395-8331.

\* The following two films will be featured in the continuing **German Film Series: Scherben (1921)** and **Geheimnisse Einer Seele (1925)**. Both will screen on Thursday, February 24 at 7:30 P.M. in Baxter Lecture Hall. These movies feature English subtitles and will be shown free of charge. For further information, please call x3610.

**Caltech Alpine Club "Sit and Chat"**—Bring a sack lunch to the patio outside the north end of Keck Laboratory on Wednesdays from 12 to 1. Talk about mountains, the weather, and outings, past and future.

# Events and Notices

**Friday Prayer**—Prayers organized by Caltech Muslim Students are held in the Caltech Y lounge at 12:15 P.M. every Friday.

**Mass**—Catholic campus life includes Mass on Sunday at 10 A.M. (Winnett Lounge) and on Thursday at 8:15 A.M. (Y Lounge), Rosary at 11:15 A.M. daily in Winnett 1A, and various spiritual development groups and study circles. For more information contact Fr. Brian Wilson at x6212.

**Bible Study and Discussion**—Every Wednesday at noon in the Y lounge. Bring your own lunch. For more information call Mike Gerfen at x4886.

**OpenLine**—A group made up of students, staff, and faculty from many different departments on campus, and from a variety of ethnic and cultural backgrounds. We are both an action group and a discussion group. Our agenda is very flexible and is solely determined by what people in the group suggest. Drop by any meeting and say hello! We meet from noon to 1 P.M. on Tuesdays in the Y Lounge (2nd floor Winnett, feel free to bring your lunch!). Remember, we *always* welcome new people, at any time of the year. Hope to see sometime! For more information contact Gary Mines at x6542 ([gam@xhmeia.caltech.edu](mailto:gam@xhmeia.caltech.edu)).

\* **Caltech SEDS (Students for the Exploration and Development of Space)** meets every Sunday evening at 9 P.M. in 107 Downs to discuss and plan for its \$4 million satellite proposal. Help is needed from undergraduate and graduate students, and advising is needed from research fellows, faculty and staff. Experience with space hardware or with the specific experimental subsystems (gamma-ray astrophysics and atmospheric chemistry) is not necessary. All members of the Caltech and JPL community welcome. Contact Ben McCall at x2902 or [bjmccall@cco](mailto:bjmccall@cco). (Note the change in meeting time).

**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.

**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 just skulk. For more information call x6353.

**Open House**—The office of International Student Programs (ISP) would like to invite international students, scholars, and the Caltech community to coffee, tea, and conversation every Wednesday from 4-6 P.M. Take a break and relax with friends at ISP (Lloyd House on the Olive Walk).

## Lectures & Seminars

\* **"Academic Conduct: Professional Responsibility and the Professoriate"**. This Science, Ethics, and Public Policy Seminar will be given by Dr.

Donald Kennedy, President Emeritus and Bing Professor of Environmental Science, Stanford University. Refreshments will be served. Judy Library, 110 Baxter. Thursday, 24 February, at 4:00 P.M.

\* **William Bennett Munro Memorial Seminar: "The Japanese Art of Tea: From Early History to Modern Practice—a lecture and demonstration,"** Mr. Dal Shusser, Tea Instructor, Urasenke Foundation. Wednesday, 23 February at 4:00 P.M. in the Judy Library, 110 Baxter. Refreshments will be served.

\* **The Middle East Peace Accords: Present Realities and Future Possibilities**—International Student Programs invites all Caltech community to a presentation given by peace activist Marina Riadi, on Friday, March 4, 1994, at 4 P.M., at Beckman Institute Auditorium. You are encouraged to take part in the discussion, which will follow the presentation. Refreshments will be served. Sponsored by the International Student Programs, Women's Center, Caltech Y, Open Line, and the American Friends Service Committee. For more information stop by ISP or call x6330.

**"On the Communication and Understanding of Mathematics"**—The Annual Leonidas Alaoglu Memorial Lecture will be held on Tuesday, February 22, 1994, 4:15 P.M. in room 151 Sloan. Speaker: William P. Thurston, Mathematical Sciences Research Institute and University of California, Berkeley. There is no charge for the lecture. Tea is served at 3:30, room 251 Sloan.

**"More Minorities and Women in Science—Caltech's Responsibility!"**—Open Line sponsors its 2nd annual forum with a panel from the community and our campus Winnett Center, noon-1:30 P.M. Thursday, February 24, 1994.—Is Caltech educating enough minorities and women?—Why are they not applying in greater numbers?—Are we responsible for increasing the pool of qualified candidates?—Should we help more with secondary education in science?—Primary education?—What diversity in our faculty and student body are funding agencies beginning to require?—Are we behind other colleges? These and other questions will be discussed by panelists and audience. For more info call Gary Mines x6542 or Pam Croomes x4723.

**Tax Seminar for International Students and Scholars**—Presented by International Student Programs on Sunday, February 27, from 10 A.M. to 1 P.M. in Baxter Lecture Hall. Please bring all your tax-related documents, including W-2 forms. Tax forms will be provided. A limited number of individual and group consultations will be available by appointment only. For more information stop by ISP or call x6330.

## Scholarships, Internships, & Competitions

\* **Summer Internship in Japan**—Tokyo Gas Company invites Caltech students (undergraduates and graduates) to apply for a 1994 Summer Internship. The two month program beginning in June is to offer students the opportunity to become familiar with the development of Tokyo Gas technology. The internship will pay a monthly stipend of ¥120,000 (approximately \$1,100), provide accommodation, and domestic transportation fee. The intern has to provide their own travel funds (approximately \$700 LA-Tokyo). Tokyo

Gas, the major gas company in Japan, has a variety of research programs in Energy Technology, at the Research Institute and Fundamental Technology Research Laboratory located in Tokyo. Qualification for this internship includes basic Japanese language capability. The deadline is **March 1, 1994**. For more information and an application, please contact Dr. Kayoko Hirata, Humanities and Social Sciences, 331A Baxter, x4210.

\* **The Deans' Office is accepting proposals for the Monticello Foundation Internship and the Robert and Delpha Noland Summer Internships.** Three Caltech undergraduate women (current freshmen, sophomores and juniors) will be given an opportunity to participate in research projects outside the Caltech community for ten weeks during the summer. Each student will receive a \$3,500 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 March 4, 1994.**

**The Charles G. Koch Charitable Foundation** invites students to apply for its **Summer Fellow Program** in market-based public policy. The ten-week program, running from June 11 through August 20, will bring together 30 students from around the world to study market-based solutions to public policy problems and effective methods for implementing those solutions. Through research and writing projects, mentoring by policy professionals, work with experienced policy analysts, readings, and seminars. Fellows will learn about the issues, institutions, and skills of professional policy analysts. Fellowships include round-trip airfare to Washington, furnished summer housing, seminar room and board, and a \$1500 stipend. Students interested in applying market ideas to society's most pressing economic and social problems should contact the Foundation immediately for a brochure and application. Deadline for application is March 1. To request a brochure or to recommend qualified students, write Summer Fellow Program, Charles G. Koch Charitable Foundation, 1401 I Street, NW, Suite 300, Washington, DC 20005; call (202) 842-4616; or fax (202) 842-4667.

**Political Internship**—The Beckman Internship will be available for the summer of 1994. The internship, supported by friends of Arnold Beckman, will pay a stipend of \$3600. It allows a selected intern to spend the summer working in the office of a politician and 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, March 7, 1994.**

Contact Lauren Stolper, Fellowship Advisor, Lloyd House, x2150 for information on the following fellowships and programs:

**Women Grad Students** may apply for an award of \$3000 given by L.A. Soroptimist International. Women in any field may apply. Applicants must be U.S. citizens and residents of California. The application deadline is March 1.

**Attention Graduate Students**—Graduate students with U.S. citizenship (permanent residents are not eligible) who need to do field work or research abroad in a country other than Canada or Western Europe may be interested in obtaining funding from a new program: the National Security Education Program Graduate Fellowships. You will have to combine your research or course work with formal course work in the language of the country. (You need not have prior language training in this language.) For example, a physicist who wanted to do research in an Eastern European country, a biologist who wanted to do field work in South America or Mexico, or a geologist doing field work in Africa could benefit from this program. If you'd like more information contact Lauren Stolper at x2150 or e-mail [Lauren\\_Stolper@starbase1.caltech.edu](mailto:Lauren_Stolper@starbase1.caltech.edu). Be sure to include your mail code on campus and phone in any communication. The deadline is March 1, so please contact me by next Tuesday if you are interested.

The Financial Aid Office has applications and/or information for the following and *additional* scholarships. All qualified students are encouraged to apply. Our office is located at 515 S. Wilson, second floor.

**The John Gayles Educational Trust** is offering financial assistance to Canadian and American citizens. Selected students will receive up to \$2500. A minimum GPA of 2.7 is required. Deadlines range from April to November. For an application, send a SASE (#10 envelope) to: The John Gayles Education Fund, Attn: R. James Cogle, Administrator, P.O. Box 4808, 712 Riverside Drive, Fredericton, New Brunswick, Canada E3B 5G4.

\* **The American Society of Naval Engineers** is sponsoring a \$2,000 scholarship for the 1994-95 academic year. The candidate must be a U.S. Citizen, demonstrate a genuine interest in a career in naval engineering, and be applying for support for the last year of a full-time or co-op program or one year of graduate study leading to a designated degree in an accredited college or university. Applications and supporting documents must be received by the association by **February 15, 1994.**

\* **The Rotary Club of Los Angeles** is offering a \$2,000 renewable scholarship to students who will be enrolled in their Junior or Senior years during the 1994-95 academic year. The scholarship is based upon merit need, leadership and participation in community service. The application and all supporting materials must be submitted

*Because of the large number of announcements this week, the Events and Notices section is continued on page 7.*



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