

**"There is no known language in which a double positive connotes a negative."**

# The California Tech

**"Yeah, yeah."**

Volume XCV, Number 22

Pasadena, California

Friday, April 8, 1994

## Caltech Students Move Out in Front Again

Lee, Clemens and Huang Take Top Honors in National and International Competitions

Congratulations Albert S. Lee!

Caltech senior Albert S. Lee was one of twenty undergraduates named in February to the 1994 All-USA College Academic First Team. The students were honored by *USA Today* and five co-sponsors as examples of outstanding academic talent and leadership in the nation's colleges and universities. Albert was invited along with the nineteen other First Team members to attend an awards luncheon, February 4, in Arlington, Virginia, to receive a trophy and a \$2,500 cash award. Leslie Maxfield, a junior in astronomy, was one of 68 who received honorable mention.

Winners were selected from 1,183 talented students nominated by their schools. Judges, representing national education organizations, looked for a blend of scholarship, leadership, initiative and creativity. First team members "have chosen to use their talent in a way that helps people who aren't as advantaged as they," says judge Penelope Earley.

Albert has produced research papers in engineering and econom-

ics but is most excited about rural China. Last summer, Albert visited the Guizhou province, where he and a friend helped found a project to combat poverty and illiteracy. They travelled between villages on foot to identify China's most serious needs and formulated priorities for allocating funds raised here in the United States.

Albert was one of five students from the First Team also invited to return to Washington, D.C., in late February to participate on the panel of the American Council on Education. President Clinton spoke at the meeting. Albert was thrilled to meet and shake hands with the President. Congratulations again to Albert!

Clemens Wins Watson

Michael Clemens, a Caltech senior in Environmental Engineering, has been awarded a Thomas J. Watson Fellowship for 1994-1995. Michael will spend a full year studying rural development projects in the Pacific region of Colombia by interviewing indigenous populations to

see how development projects have affected them and also by researching the history of the projects to determine what factors make them successful. He will keep a complete record of his interviews and impressions by writing, drawing, audio taping, and photography.

The Watson Fellowship provides \$15,000 to support independent study and travel outside the United States for a year after graduation. The prestigious fellowships have been awarded to 60 students from 48 private colleges and universities throughout the country.

Huang Wins Fellowship

Wei-Hwa Huang, a Caltech freshman, has earned the title "Putnam Fellow." He scored in the top six out of a total 2,356 students from 402 colleges and universities in Canada and the United States who took part in the 54th Annual William Lowell Putnam Mathematics Competition held December 4, 1993.



Albert Lee gets his chance to meet the President in Arlington

## Student-Faculty Conference Still Showing Signs of Life

by Flora Ho

After all the hoopla, it may seem to y'all that the 1994 Student-Faculty Conference has just fizzled out, doomed to the same ineffective fate as many of its predecessors. NOT SO! Work continues to be done on redefining and refining the proposals presented at the conference, utilizing the many, many ideas and opinions that were voiced by the participants.

Just to keep you updated, here is a synopsis of the proposals that were presented, along with some general opinions that were expressed concerning these proposals.

### IMPROVING COMMUNICATION

The results of the survey handed out at registration second term revealed several important trends: 1) most of the students who had done research at either Caltech or JPL, which increased from 38% in the sophomore class to 86% in the senior class, found their jobs through independent search; 2) while students apparently pay visits to their advisors and professors primarily for administrative purposes (e.g. recommendations and drop/add cards), they refrain from additional interactions because they think that advi-

sors/professors are too busy for them and that they might be imposing, or they felt intimidated. These are attitudes which, fortunately, can be changed. finally, 3) students definitely would be interested in participating in extra-academic activities with faculty, albeit admittedly responding YES is easier said than done. Using these (and additional) survey data, the committee proposed: 1) that there be instituted a freshman research seminar series offered by each division, in which faculty members speak to freshman at an introductory level about available research

opportunities, thereby reducing the number of students who feel unprepared for, or unable to find, a research job; 2) a campus-wide "Caltech company picnic", a food- and activity-filled event to which all members of the Caltech community would be invited; 3) enhancing relations with advisors, first by bringing the conference results to the attention of division chairs, and perhaps later with proposing more concrete solutions, like advisee (or advisor) information sheets and prescribed per-term meetings between an advisors and their advisees, or perhaps altering the procedure of add/drop so that advisors could take on more than just a "rubber stamp" role. The general feeling was an accord that relations between faculty and students (particularly advisors/advisees) need to be brought to a more meaningful level; on this note, several committee members will be presenting the survey results and ideas generated in the conference to the faculty board.

better coordinate with other core courses, and include an independent project course." Consistent with these objectives, students would be encouraged not to specialize during their first two years at Caltech, with the ramification that each option would be structured such that no more than two years would be required to complete its program. The most far-reaching changes in the core would be the addition of a full year of lab (to expose students to basic laboratory techniques, as well as the use of computers for data acquisition, simulation, and analysis), courses to develop communication skills (culminating in "preparation of a literature review and proposal for an independent project"), and freshman seminar (in which researchers describe some aspect of their research to freshmen). While there was enthusiastic support for many of these proposed changes and the needs that the proposal addressed were recognized, virtually all the student responses from the audience reflected a reluctance to expand the core further. Ultimately, the faculty will make a decision as to how to implement the ideas that were presented in the Fundamentals proposal; students are encouraged to give input!

### QUALITY OF TEACHING

The Quality of Teaching committee presented a new teaching quality questionnaire that it hoped would standardize the teaching quality feedback procedure among the divisions, since currently each division hands out its own questionnaires and deals with returned question-

### Deans Need Frosh Camp UCCs

The Deans are interested in hearing from you if you would like to attend New Student Orientation (Camp) as a Deans'/IHC Upperclass Camp Counselor and have not already been selected by your House. Camp is scheduled for Wednesday through Friday, Sept. 21-23, 1994. The Deans are accepting nominations for seven Deans'/IHC UCC selections through April 18, 1994.

Due to expenses, we are eliminating the position of Deans' Helper. However, UCCs will need to perform some fraction of the tasks previously handled by Deans' Helpers, including setting up campfires, administering the freshman survey, and (ugh) helping out in the kitchen. If interested, submit a brief written description of your unique qualifications (campus activities, talents, experience with audio-visual assisting, photography, etc. and why you want to attend camp) as a UCC to the Deans' Office, 102 Parsons-Gates, by Monday, April 18, 1994. We hope with your help to add to the diversity of the Camp experience for the new students.

## Beavers Down Under

by Tom Dmukauskas

This spring break saw the track team take a journey unprecedented in Caltech's storied athletic history. After playing host to the Australian Junior National Team in 1993,



Ginger Garcia beats a bunch of old guys in a time trial at Coburg

Coach Jim "is there a group discount?" O'Brien received an invitation to bring his team to compete on Australian soil. Many hours on the phone and several generous donations later, the trip became reality. So on Sunday, March 20th, 14 athletes waited in the Ath parking lot, many doubting the trip was actually going to take place until they had their plane tickets in hand. Despite departing 40 minutes late, the Beavers did soon enough find themselves enduring a 17-hour plane flight terminating in Melbourne, Victoria, Australia.

The severely jetlagged athletes traveled to the suburb of Collingwood upon the evening of their arrival for their first meet of the week. Highlights were few and far between this night, perhaps the biggest and most encouraging being the return of Brian "Brew" Brewington to the track after pulling a hamstring a few weeks back.

After a good night's sleep, everyone's batteries were recharged, and the Beavers were ready to tackle Coach "blow the red light, we've got a meet to go to" O'Brien's vigorous schedule of sightseeing. After a day spent at the zoo, and learning about eucalyptus trees in the rain forest, the runners prepared for a meet at Aberfeldie. The newly laid track lent itself to fast

SEE BEAVERS, PAGE 4

SEE CONFERENCE, PAGE 7

# Letters to the Editor

## Comment on Honor Code Sparks Debate

I am of the opinion that violence and inflammatory rhetoric rarely accomplish much. I also hold more faith in my fellow human being than, say, some of your staff members do. I frankly am quite offended when a person insinuates that no Techer, which includes myself, has enough dignity to lead their lives along a set of ethics. In no way am I saying that we, though intelligent as we are, will ever perfectly achieve the goal of living our lives ethically and intelligently. However, I will argue that there is no need or want for persons who believe that there is duplicity behind every statement or a lie in every heart to constantly harass a community, based on trust, and claim that no one person adheres to any community standard whatsoever. Such a claim is not only ridiculous and absurd, it is a falsehood, and should be taken as such. I feel very strongly about my own integrity, and to have it attacked in such a manner, I find extremely offensive. Where does a person - whose position allows her to voice opinions louder than others - where does such a person find such motivation to strike words that do not have any relevance, and serve only the purpose for persons like myself to be angered to the point of having to respond. Such positions are positions of responsibility - they are not to cast one's personal opinions or judgments upon the community.

In every free society, people are guaranteed the right to disagree and to live in a manner they choose. I do disagree completely with Ms. Bauer's methods of discourse. I find them deceptive, tactless, without foundation in reason or truth, and insulting to our level of intelligence. We do not need persons who deem

it necessary to spread fires rather than extinguish them with discussion where parties have mutual respect. In all honesty, I have lost any respect I had for the above-mentioned Ms. Bauer as it pertains to her editorial "style". If this trend has no end in the foreseeable future, I will refuse to read the Tech and I will pull my subscription and encourage others to do the same.

Tatsuya Murase, esq.  
Blacker House, Class of 1996

## Editor Reply

I'm sorry you are angry, but I don't think that my editorial was attempting to solicit that kind of response. Yes, I may have not been fair to the integrity of students: I insulted the integrity of the graduate students by implying that they don't have an honor code. For that I sincerely apologize.

The purpose of my letter was intended to open up some discussion about what will be done at Avery House. After all, that will become an important issue, especially when it is near completion. There will be other issues which will need to be examined, like rotation. I just thought it might prompt some relevant discussion about social interactions.

I am also assuming you are a little upset about my letter to the editor last term. Obviously you were rather upset when writing this letter, and I was in a similar state of mind when writing my letter. I admit I said some things that were really unnecessary. However, if the honor code is honestly that good, its integrity will not be harmed. Otherwise, this type of discussion may hopefully lead to changes and improvements. But either way, there is no reason it can't be discussed.

*Cherish Bauer*

Cherish Bauer

## PC: A Social Commentary

I am writing to compliment the article by J. Random HercFrosh and Lauren entitled "Kamikaze Duck flatulence: A Social Commentary". It presented a balanced view of the PC movement, and of those who slander it.

I believe in trying to make life easier for people, and although I do not agree with the methods of most "PCers", I agree with what they are

trying to achieve. I do not agree with euphemisms, but applaud the idea of trying to look past physical features to the true person hidden within.

I immediately recognized the sarcasm that the authors displayed when they wrote their article. It is refreshing to see a liberal viewpoint taken on this somewhat conservative campus. I am glad that they support the goals that PC holds, and I hope that more people will support it as well.

Ross Brown



## Graduation is Really Not for You

I just want to remind everybody that one can get a degree from Caltech without going to commencement. If Mr. Everhart (oh, sorry - Dr. Everhart) wants to give a speech at our commencement and has the power to arrange that, there isn't much we can do about it, not this year anyway. The point is, by the way, that while it's faculty who make Caltech famous and its administration (and alumni) who make it rich, commencement is the day for the students and by the students. For people who are graduating it will be a holiday no matter what happens on that day. So while for many people, especially if their parents are coming, it will be hard to avoid going to commencement (it is, after all, a big deal!), perhaps we should show as much disrespect for our president as he has shown for the student body.

Michael Anshelevich

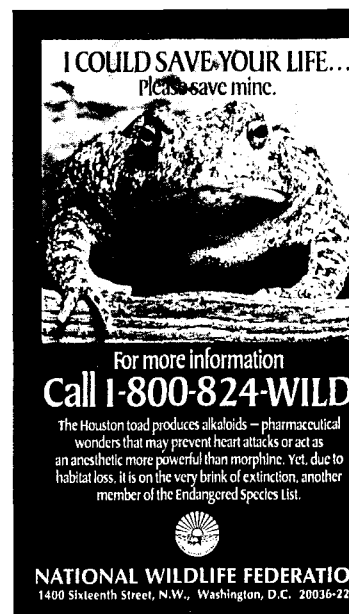
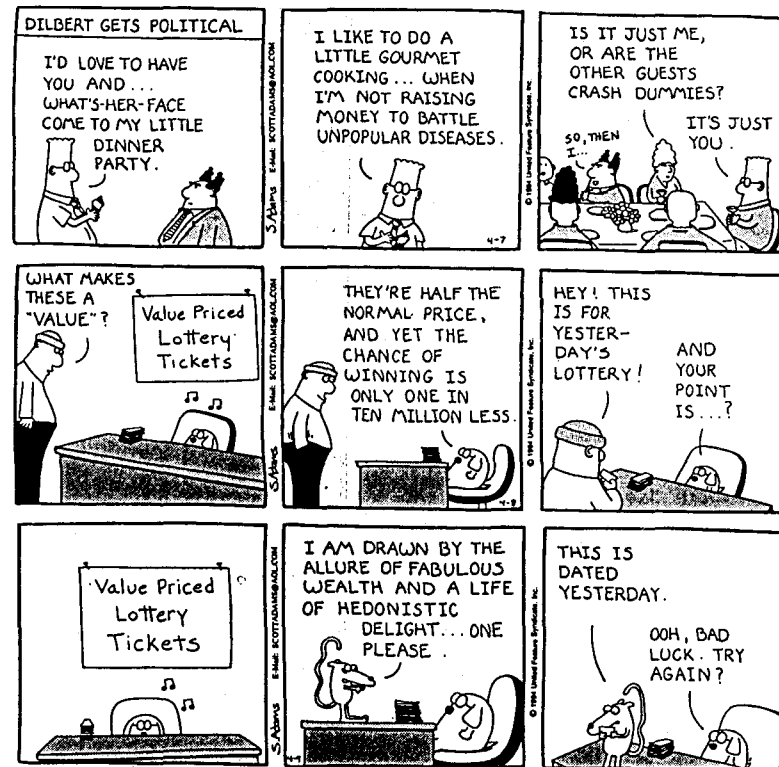
## Speaking Out at Commencement

Reading Mr. Maskit's letter last week I was struck by the perception of cause and effect concerning the president's relationships with commencement speakers. I found myself remembering that even in the 1970s (during my undergraduate years here) the perception that commencement speakers were selected because they were friends of the president was widely held. I now suspect that the reverse is true.

My belief is that speakers often agree to come only because of friendship with the president. Caltech is at a disadvantage in securing commencement speakers. While many universities offer honorary degrees to commencement speakers, Caltech holds the work of its graduates in such high regard that it refuses to compromise the integrity of its degrees by offering them on an honorary basis. Additionally, many speakers expect honoraria in amounts approaching (or even exceeding) \$10,000. Often the only leverage Caltech can bring to bear on an invited speaker is through the friendship of the president.

Chris Harcourt  
Class of '77

## DILBERT® by Scott Adams



The California Tech has office hours! Stop by at room 48 in the SAC, 5 to 6 p.m. every Monday and Wednesday.

QUESTION MAN IS CURRENTLY UNDER ARREST PENDING QUESTIONS. WE AT THE TECH CANNOT CONTACT HIM AND DO NOT KNOW WHY. A CERTAIN OTHER COLUMNIST REFUSED TO EXPLAIN.

We regret that *Crime and Incident Beat* could not be printed because of technical difficulties. We hope that we can bring the the column to you next week.

## Editors' Note

Beginning the week of April 11, 1994, The California Tech will keep deadlines for submission of material to be published in each issue as follows:

Letters to the Editor: 5p.m. Monday  
Events and Notices: 5p.m. Tuesday  
Regular and Semi-Regular Columns:  
General News: 5p.m. Wednesday  
Art Submission: 5p.m. Thursday

Any submissions received after these deadlines will be dealt with at the discretion of the editors and held over for possible publication the following week.

Please send submissions for letters to the editor to The California Tech, Caltech 40-58, Pasadena, CA 91125, or by electronic mail to [editors@tech.caltech.edu](mailto:editors@tech.caltech.edu). Deadline for submissions is Monday at 5pm on the week of publication.

The editors reserve the right to edit or refuse to print any letter for any reason.

## The California Tech

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## Israel

Israeli police apprehended the leader of the outlawed Jewish extremist group, Kach. The leader has been the subject of a month long manhunt.

## Russia

Vladimir Zhirinovsky appears to have had a Jewish last name until the age of 18 according to public records. He denies the claim. The ultranationalist is known for his vocal anti-Semitic view.

## Afghanistan

The U.N. sent a five-member team into Kabul to end the two-year long strife in Afghanistan's capital. An estimated 2,500 have died and 17,000 others have been injured since the fighting began.

## South Africa

Zulu Chief Mangosuthu Gatsha Buthelezi opposes the country's first all-race elections this month. In a move to ensure that the election will proceed in the Zulu-dominated Natal Province, President De Klerk declared a state of emergency and sent troops to "keep the peace" in the region. Nelson Mandela approves De Klerk's decision.

Zulu nationalists marched in the Natal province city of Empangeni in defiance of the state of emergency called by De Klerk.

## China

A Chinese dissident who was released from prison six months ago has been arrested again for alleged "new crimes." His release may have been a ploy to get China the 2000 Summer Olympic Games.

## Ukraine

The Chernobyl nuclear power plant is still unsafe according to inspection agencies.



## Mexico

Mexican officials announced Monday that at least seven individuals were involved in the assassination of presidential candidate, Luis Donaldo Colosio. One of them is a former

police detective who organized Colosio's security in Tijuana. Five have been arrested while two remain unidentified.

## United States

Clinton promises air support for eight hundred Ukrainian troops venturing into the "Muslim enclave of Gorazde" in Bosnia-Herzegovina. The troops, sent by the U.N., will act as a buffer against possible Serbian attacks.

## Middle East

While Israeli troops are preparing to pull out of Jericho, Palestinians stoned the Israeli police station. The troops fired tear gas and threw concussion grenades in response.

## Egypt

Israel and the PLO are trying to speed matters up in their ongoing talks in order to reach an agreement by mid-April. Israel promised to hasten troop withdrawal from Jericho and the Gaza Strip. The government also promised to consider granting more autonomy to the Palestinians.

## Singapore

In a case that has drawn national attention, U.S. teenager Michael Fay appealed a flogging sentence. The Singapore court rejected the appeal.

## North Korea

The U.N. Security Council strongly advised that North Korea allow full nuclear inspections. This strong advisory lacks the force the U.S. was hoping for.

## IHC Minutes

April 4th

by Craig Smith

Present: Ben Smith (temporary chair x1060), Eric Slayback (former chair), John White (Fleming), Mike DeBar (Lloyd), Mikey Ng (Page), Jim Murdoch (Dabney), Dennis Ugolini (Ruddock), Kevin (Ricketts), James Honaker (Blacker), Mike Herrera, Dave Derkits, Mike Vogel, Allison Slem

## STUDENT ATHLETICS

## Athletic Lists

As determined in last meeting, the third term athletic lists from each house are presented. The lists are fine for competition this week and will be finalized for the rest of the term at the next meeting.

## New Interhouse Eligibility Policy:

Mike Debar's proposal for changes to eligibility rules are unanimously approved to be presented to the Athletic Department and are as follows:

I. Students eligible for Interhouse competition must meet requirement A and either B or C:

- The student must be a bona fide member of a house and of the Caltech community.
- The student must be registered as an undergraduate student or a residence associate of an undergraduate house.
- The student must not have been listed on athletic lists for any house for more than eleven terms previous to the term in question. Note that membership in a house for a given term is equivalent to being on that house's athletic list, for the purposes of the aforementioned term limit. (Transfer students shall have a proportionally lesser number of terms of eligibility: sophomore transfers must not have been listed for more than 8 terms, and junior transfers for more than 5 terms).

II. Students who participated in an Interhouse Sport for one house in a given term are ineligible to play for another house during the same term.

III. Exceptions to any of the above rules may be made by the IHC.

IV. All other provisions as outlined in *the little t* will remain the same.

## DISCOBOLUS

Page has challenged Ruddock, and Ruddock has accepted in Soccer. Ricketts is next to challenge.

## PRE-FROSH WEEKEND

During Pre-Frosh Weekend, there will be two three hour sessions where prospective students have the opportunity to speak candidly with current undergraduate leaders. Last year this took the form of a question and answer forum. Members of the BOD, BOC, and IHC will probably make up the group of current undergraduates.

There was some discussion of having some sort of organized method of introducing the freshmen to all of the undergraduate houses, rather than allowing their view to be biased one way or the other by which house they are staying in.

It was noted that Pre-Frosh Weekend is not Pre-Rotation, and the visiting students should get a view of Caltech as a whole, not just of one house. Chris Marsh had some ideas about having some sort of centralized presentation where each of the houses has some sort of activity going on, because in the past, the Pre-Frosh were not really aware of what was going on in all the houses. This way, they would have an opportunity to see all of the houses. Many felt that Chris's suggestion could be implemented in such ways as providing the Pre-Frosh with a blown up map of the seven houses as well as some sort of schedule of what is going on in the houses, perhaps a message of some sort from the IHC.

In response to some concerns in the past, Alison says that it is fine to take the Pre-Frosh places off-campus, but don't go crazy. They are here to see Caltech, not San Diego beaches. Also, specifically do not take Pre-Frosh places where Caltech has promised to take them, such as the airport.

## THE ASCIT BUDGET

Dave has some questions about the proposed ASCIT Budget. In par-

SEE IHC, PAGE 6

## ASCIT BOD Minutes

March 29th

by Deavid Derkits

Present: ASCIT BOD, Jim Murdoch, Steven Skovran, Laurent Stadler, David Simpson, Eric Uhrhane, Paul Ainsworth, Penguins in Heat, Chris Walker, Becky Green, Shirley Chen, Tatsuya Murase, Gavin Claypool

Meeting Commences at 10:30PM

## NEW BUSINESS

The Y requests funding for two events: \$150 for a performance of the Hammersmith Band (near Winnett) and \$200 for Earth Day. The BOD approves \$50 (6-1-1) for the Band and postpones action on the Earth Day request, pending review of the ASCIT funding policy.

Ruddock requests the jam room equipment for an upcoming party. Request approved (7-0-1).

Tatsuya Murase presents information about a proposed Caltech Student Activities Association which would seek funding for Caltech clubs.

## BOC BYLAW PROPOSAL

Chris Bryant presents his proposal to separate the BOC bylaws from the ASCIT bylaws, thus separating the BOC from ASCIT. The intention is to allow all undergraduates, not just ASCIT members, to have a say in the bylaws of the BOC. Under the plan, all undergraduates would pay one dollar per term to support the honor system. Chris agrees to make changes to the section which specifies the procedure for amending the BOC bylaws. All undergraduates are encouraged to look over the proposal, a copy of which is available in each House. Questions, comments, or suggestions should be directed to Chris Bryant at [cubryant@cco](mailto:cubryant@cco), x6200, or MSC 124. Motion to table passes (8-0-0).

## DIRECTORS' REPORTS

## The Club Funding Policy

The policy to cease funding the general budgets of clubs is discussed. Motion to table passes (8-0-0).

## DIRECTOR FOR SOCIAL ACTIVITIES

Chris Marsh continues to look into

SEE BOD, PAGE 6

## NEED HELP WITH YOUR INCOME TAX RETURN?

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Regular Phone Service - (800)852-5711

The Financial Aid Office (515 S. Wilson, Second floor), Career Center, Dean of Student's Office, and Office of International Programs have a two page tax guide available. Feel free to stop by any of these offices and get a copy.

Volunteer Income Tax Assistance (VITA)  
is available in Pasadena  
February 22 - April 15\*  
at the following locations:

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Sat-Sun Regular Matinee 3:00 p.m.





## sports



Welcome back young and old, smart and stupid, sports inclined and non-inclined. It's a new term and a new staff. Also a kinda new feature, our weekly sports roundup. But in order to really bring you the "trials and tribulations" (excuse the cliché) we need your help. To make this easier on your butts, we have created a sports account: sports@tech. So all you sports team members out there and you house ath team people, write in and tell us how your teams did. We sorely want to know.

This term the main Beaver attractions are Mens and Womens Tennis, Track and Field, Golf and Baseball. Our Interhouse sports coverage should soon start with Basketball then Tennis and maybe some touch football. We'll keep you posted as things develop. So guys and girls, get those rusty keyboards out and start hacking at those keys. Gimme story!

## The Sweat Revolution

### DabneyCorp Sports

Sweat. The game of a new generation of darbs.

Sweat fever is whipping through Dabney house. Seldom will you find a darb without an accomplished sweat arm. Beware other houses out there, Dabney has added another weapon to its awesome armory.

Was it only a term ago, when Dabney shocked the sport community with an upset victory against

Fleming? Fencing it was, and now we know of a weakness in the invincible Big Red Machine. But things are changing. The Mean Green Machine was preparing to roll over Ruddock. But alas it was not to be. Even nudity wasn't enough, Ruddock took the trophy edging out a fighting green machine by a couple feet in a very exciting ice block competition. But the taste of victory has done something. Dabney shall no more be the house that cannot compete. (But can it win? -eds)

Now Sweat joins the Dabney repertoire. It is sure to find a constant place next to Hi-Li on Disco challenges. Pity the house that dares challenge us in Sweat! But what is Sweat? Sweat is played on the usual olympic size pool table. Played with two balls the white and the black. The aim is to sink the black using the white. Both players alternating with the white. Rules are many and varied. Also very controversial. The BOC should be called to create a fair set of rules that should keep everyone happy. My particular preferences is the honorable three dot rule and reasonable force.

A Sweat tournament seems doable. ASCIT funded definitely. Standardized rules are of course a must, but that should be no problem to do. Renting pool tables should not be a big expense. However, the tables will have to be pretty used, since Sweat playing is not very nice to new tables. I envision new status to the sport. Soon to be Olympic approved. In fact as I speak, the DabneyCorp is

## What's the Score?

March 28 - April 3, 1994

### BASEBALL

No games for this period  
Current record is 2-18  
SCIAC record is 0-12  
Last week's results:  
March 29 Loss vs. National Christian College 6-18  
April 2 Win vs. Alumni 7-3

### MEN'S TENNIS

Upcoming matches:  
April 9 vs. Claremont (away)  
SCIAC record is 0-1

### WOMEN'S TENNIS

Upcoming matches:  
April 9 vs. Claremont (home)  
Current record is 6-7  
SCIAC record is 0-2  
Last week's results:  
March 23 Loss vs. Dominican College 1-5  
March 25 Loss vs. Mills College 1-8  
March 26 Win vs. Menlo College 9-0

### TRACK & FIELD (MEN'S)

No events for this period  
Current record is 8-6  
Last meet results:  
Citrus College 164  
Caltech 122  
Biola 83  
Australia 81  
CLU 45

furiously preparing the Dabney Sweat Machine for entrance into the hastily set up International championships to be held in Maraval, Trinidad & Tobago this summer.. Wish us luck!!! (Send your wishes of luck to sports@tech.)

### TRACK & FIELD (WOMEN'S)

No events for this period  
Current record is 6-8  
Last meet results:  
Australia 140  
Citrus College 125  
CLU 117  
Caltech 79

### GOLF

Upcoming matches:  
April 4 vs. Occidental (home)  
Current record is 0-4  
Last week's results:  
March 30 Loss vs. Claremont 300-349

### DISCOBOLUS

Ruddock beat Dabney 23-38  
Ricketts beat Blacker 22-19

FROM BEAVERS, PAGE 1

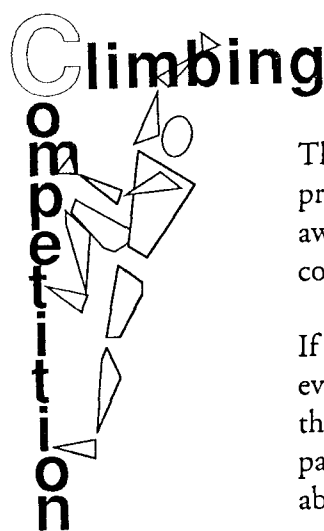
times and thus a veritable cornucopia of P.R.'s in the seldom run distances. Karl "do you have any dartboards?" Thulin, Tom "L" Dmukauskas and Cailin "that's kinda cool" Henderson used their patented standing starts to blow through the slow heat of the 70m dash in sub-11s. Ron "L" Steiger simply demolished the competition in the 700m, turning in a dandy 1:48. Rob "L" Bergeron, Adrian "yeah, just like Police Academy" Hightower, Matt "I ate my lunch by myself" Metz, and Ginger "how do you spell incoherent?" Garcia joined Dmukauskas, Henderson and Steiger for the Indian-fartleking-backwards-running-flying-fairing 20-minute time trial. The locals were so mightily impressed, that after the meet had finished, team members had honorary Australian citizenship bestowed upon them.

After a night where certain individuals continued to score off the track as well, the surf and sun at Bells Beach beckoned for an early wake-up call. Another evening meet at Coburg cut the trip short, but since the sun was hiding and the surf was lazy, no one was too displeased. This night, the coaches stole the show.

Frank "the smooth operator" Little-Hinckson busted out a studly 100m only to be outdone by Craig "koala-ty" Hagan's victory in the 400m asphalt-eating contest.

Three meets in three nights earned the team a couple days respite. A visit to the Healesville Sanctuary and a trip to the Essendon-West Coast Australian Rules Football game gave the team the rest it needed for the grand finale of their Australian tour, the weight pentathlon. Art "L" Greenberg debuted in the javelin with a mighty throw near 30m, likely earning him a permanent spot on the javelin roster. Amy "Jeff" Oldenburg, Jeff "Amy" Dickert, Gretchen "I'll open the bottles" Larson, and Matt "get me an application for Melbourne U." Goff dominated the age group competition and came away with medals to prove it.

A plethora of other fantastically enjoyable activities were investigated, but they will be omitted here for brevity. Suffice it to say that no one was really itching to leave. For all those team members who didn't come on the trip, all I can say is, "It must have really sucked not to have gone to Australia!"



# Caltech Climbing Wall Club

The Caltech Climbing Wall Club is organizing its second climbing competition at the Climbing Wall. At present, the competitions is planned for the 14th of May. There will be three divisions, and prizes will be awarded in each. The climbing will be more endurance-oriented this year, with points given for full or partial completion of relatively long routes.

If you intend to compete, please mail in the form below, and we will contact you with the particulars of the event. Note that due to the generosity of the Vic Veysey Fund, there will be no entry fee for members of the Caltech community. Climbers other than Caltech/JPL students, faculty, staff or alumni will be asked to pay an entry fee at the competition. Please try to give an accurate and honest assessment of your climbing ability, since this helps us to organize an event that is fun, fair and challenging for everyone.

Since this is again basically a volunteer-dependent competition, any help with running or judging the event would be greatly appreciated.

Sponsored by the Victor V. and Janet D. Veysey Student Life Discretionary Fund.

If there are any questions or comments, please contact Jed Pitera at (818) 578-9952 (phone), Caltech Box 700 (mail), or jpitera@cco.caltech.edu (e-mail).

(detach here)

## 1994 Caltech Climbing Competition Entry Form

Name: \_\_\_\_\_

Address (campus address preferred): \_\_\_\_\_

Phone: \_\_\_\_\_

Status: UG G F S JPL Other: \_\_\_\_\_

General Skill Level: Beginner Intermediate Advanced

Gender: M F

Hardest onsight grade: \_\_\_\_\_

Present plans call for the competition on Saturday, May 14.

Can you make it? Y N

If not, when do you prefer? \_\_\_\_\_

Please complete and mail this entry form to: Jed Pitera, Climbing Wall Club, Caltech Box 700, Pasadena, CA 91126  
We would like to receive all entries by May 7.

The editors would like to thank Institute Archives and Millikan Library for allowing access to copies of the Throop Tech for the feature "75 and 25 years ago." The feature will return next week (space permitting); meanwhile, enjoy this headline from The California Tech, April 3, 25 years ago (when Eisenhower died):

itorial  
'69 Without A 'T'  
"is in serious trouble. Unless the ASCII BO" yearbooks published in 1969, a representative for rest his conc

## YNEWS

by Sam Webb

Welcome back to the last term of the year. Well, once again the Y is cooking up ideas to entertain you. The Hammersmith Band will be here this Friday at noon in the Winnet Quad for your listening pleasure. This is a return performance for them so be sure to bring out your lunch and take in a listen. Jean Kilbourne will be presenting a talk as part of the Caltech Y's Distinguished Speaker Series entitled "The Naked Truth, Advertising's Image of Women", Wednesday, April 12th in Baxter Lecture Hall. It is sure to be a big event so be sure to attend. Also, don't forget that Earth Day is rapidly approaching on April 15th. The Y and the Caltech Environmental Task Force will be providing a day of fun filled music, entertainment, food, fun and games. Come by and celebrate and learn how to help our planet. If you have any questions, stop by the Y or call Chris at x6194.

## The LYX Gadget

by Wei-Hwa Huang

One of my friends, Marvin Gardiner, has sent me an interesting gadget which he calls the LYX gadget. This gadget has nine toggle switches in a 3x3 array, each of which can be in two positions. For this column, I'll just represent buttons in the "on" state as ● and buttons in the "off" state as ○. Each button has a letter of the alphabet on it, but I'm not going to tell you what they are; that's what you have to figure out. There's no fixed direction to hold the gadget; aside from the letters, all corner switches are identical, as are all side switches. The only obvious rule is that any switch toggled affects other switches. It took me a while to figure out the basics of this gadget, but I'll tell you what they are.

So, what happens when I toggle a switch? Well, if it's a corner switch, that switch and four others get toggled in an L shape radiating from that corner, like this:



This is, of course, when the lower left corner is toggled. Any switches that were originally "off" become "on," and vice versa. For this example, I'm pressing the lower right corner:



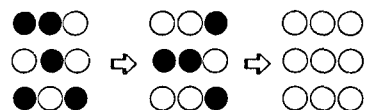
When an edge gets pressed, the inverted shape is a "Y" shape:



And pressing the center changes all corners & the center (the "X"):



An interesting goal is to "mess the puzzle up" by moving random switches, then try to restore to the all "off" position. Here's a seemingly complicated position that only requires two steps:

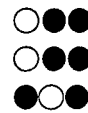


The two steps were the upper left corner followed by the left edge, but you knew that already. However, it's not so obvious that even if I pressed these keys in the other order, it wouldn't have mattered.

Now for the letters. Marvin took a nine-letter word (all different letters) and put the letters on the switches (in no particular order). The puzzle for you, then, is to determine this nine-letter word. Here's what I've found out (all situations begin with the "all off" position):

## Games & Puzzles

1. If I "type" (flick the switches, one by one) the word "lost," I get



2. Some words reproduce themselves. For instance, if I type LYX, although other switches may move around, in the end only those three switches with the letters L, Y, and E are on. IRON is another such word. I've decided to call these "perfect" words.

3. Toying with longer words, I've found that typing in TENSOR results in the switches that constitute the word SORELY to be lit up. Beware, all you tensor analysts: could this be an omen?

4. I've also noticed something very stylish when I type all the switches (type in the nine-letter word, if you prefer): I get the word STYLE. Not only that, but if I start with the "all off" position and type in STYLE, all the the switches are on! I call such a pair of words "amicable." I haven't been able to find any other amicable English pairs. Can you?

And now, you should have enough information to tell me not only what the nine-letter word is, but where each letter is located!

### BONUS QUESTIONS:

1. I found a seven-letter perfect word. I believe it's the only one. Can you "pick" it?

2. Try this procedure: Type a random "word" from the "all off" position (here by "word" I mean any sequence of letters). Now write down the "word" that is now on. Type that word. Continue the process. What happens? I've found that I invariably return to the "all off position." Is there a good reason for this? (No, I don't know the answer.)

3. Same as part 2, except you reset the switches to "all off" after you record the word. Obviously any perfect word is going to repeat over and over, and any amicable pair will oscillate with cycle period 2, but other "starting words"? Can you show that they always repeat after 4 iterations or less? (I can.)

4. (If I haven't lost the interest of any non-mathematicians...) Can someone actually construct such a machine mechanically? I can't think of any, but I'm not an M.E. How about a nice implementation on the computer? How about a 5x5 with all letters of the alphabet (except maybe Q)?

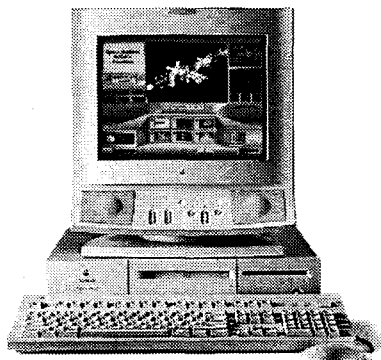
### SOLUTION TO LAST WEEK'S PUZZLE:

|   |   |   |   |
|---|---|---|---|
| P | O | L | E |
| P | O | L | E |
| P | O | L | E |
| P | O | L | E |

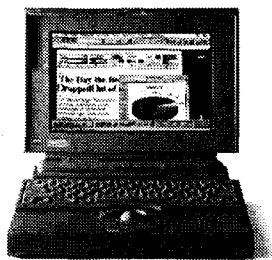
If you're still confused, the vertical columns are to be read "peas," "owes," "els," and "ease," respectively. Mr. Callimahos is great at writing these esoteric puzzles; for instance, he's written one that goes in eight directions, which I will provide upon request.

What do you want to see more of in this column? Tell me at whuang@tech, whuang@cco, MSC#542, x1540, or Ricketts 44.

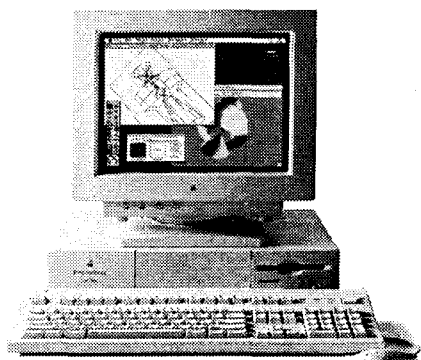
# The dictionary has at least three definitions for "value." So do we.



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PowerBook® 165 4/160.



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FROM BOD, PAGE 3

alternative ways to handle the Formal, including holding it on a cruise ship.

☛ The Executive Social Committee (ESC) is being formed. Those interested in serving on the ESC should sign up on the east side of Winnett.

☛ In order to give pre-frosh a more complete view of undergraduate life at Caltech, Chris suggests that the Houses hold their special events in one location, at the same time. The BOD recommends that this idea be forwarded to the IHC, as they have jurisdiction.

☛ Chris will have a budget for the pre-frosh party ready by the next BOD meeting. Ewald mentions that funds from the previous BOD budget will cover the party.

**DIRECTOR FOR ACADEMIC AFFAIRS**  
☛ Flora is looking for students interested in serving on the ASCIT Educational Policies Committee. The EPC will help with the ASCIT Teaching Awards. Those interested should contact Flora at *flora@cco*, 683-9623, Page 205, or MSC 217.

☛ It is not too late to turn in CLUE reviews. Please send them to Flora.

**IHC CHAIRMAN**

☛ The IHC Chairman announces his intent to resign for personal reasons. The timetable for the special election is discussed.

☛ The next IHC meeting is at 7:30PM on Monday, 4 April 1994.

**TREASURER**

☛ It's the time of year when the books need to be audited.

**SECRETARY**

☛ The BOD will meet weekly at 7:30PM on Wednesdays in the ASCIT Office for at least the remainder of third term. Please note this change in day and time.

☛ David presents a resolution to replace Resolution IV - Appointed Offices. The proposal attempts to bring the resolution into agreement with current practices, which differ from those in the old resolution. Two motions to strike portions of the proposed resolution pass (8-0-0) and (8-0-0), and a motion to replace Resolution IV - Appointed Offices with the proposed resolution passes (8-0-0).

☛ Sign-ups for the appointed offices close at 5:00PM on Wednesday, 6 April. The sign-up sheet is on the east side of Winnett.

**VICE PRESIDENT / BOC CHAIRMAN**  
☛ It is suggested that perhaps faculty should be invited to BOD meetings to encourage more faculty involvement in student issues and to hear their concerns and ideas.

☛ The BOC is looking into increasing the role of faculty members in cases before the BOC. Under the current system, their input is relayed to the BOC through the BOC Chairman and Secretary. It may be possible to have them come as witnesses and appear before the BOC itself to state their cases.

**PRESIDENT**

☛ Angie has selected Katy Sippel as the Chairman of the ASCIT Executive Committee. The BOD confirms the selection.

☛ Angie is working with the administration on the ATM and parking structure issues.

**MEETING ADJOURNED****ASCIT NEWS**

by David R. Derkits

☛ The weekly Board of Directors meetings are Wednesday at 7:30P.M. in the ASCIT Office, SAC 64. Students, faculty, and administrators are invited to attend.

☛ The ASCIT Executive Committee has appointed Ben Smith as interim IHC Chairman. Nominations for IHC Chairman are open until Tuesday. The Special Election will be on Monday, 18 April. See the related article in the Tech for more details.

☛ Angie Bealko, ASCIT President, will have office hours this Tuesday from 2p.m. to 4p.m. in the ASCIT Office.

☛ Chris Bryant, ASCIT Vice President and BOC Chairman, will have office hours every Tuesday from 9a.m. to 10a.m. in the ASCIT Office.

☛ Sign-ups for the Executive Social Committee are still open. If you are interested, print your name on the sign-up sheet on the east side of Winnett. Questions should be directed to Chris Marsh, the Director for Social Activities.

☛ Interviews for the appointed offices will be held at the next BOD meeting, on 13 April 1994. Candidates will receive information from the ASCIT Secretary.

☛ CLUE reviews may still be submitted. Your input is of great benefit to present and future students.

FROM IHC, PAGE 3

ricular, the multihouse event funding revisions. Most of the IHC felt that the funding of two or three house events is extremely important. These funds have helped the Houses maintain the level of their social events. Doing without them will cause the Houses to suffer and may even provide incentive for more people to drop ASCIT membership. It would be nice to get the funding from somewhere other than ASCIT. The IHC is asking \$700 for administrative & food costs. ASCIT may buy the SAC TV Room and maintain it. Read the ASCIT Minutes for further budget details.

**INTERIM FOOD COMMITTEE CHAIR**

The IHC appoints Tamara Tolou as Interim Food Committee Chair.

**FACULTY-STUDENT APPOINTMENTS**

Sign-ups will go up soon, and the schedule will not be made until after new chair has been elected.

**HOUSING**

Before the Off-Campus Lottery, we need to figure out how to divide the off-campus houses. Some houses no longer have any off-campus affiliated spaces.

**NEW MEETING TIME**

The IHC will now meet Mondays at 1:30 PM.

**IHC CHAIRMAN NOMINATIONS CLOSE TUESDAY**

Nominations for the office of IHC Chairman close Tuesday, 12 April, at 5:00p.m. If you are interested in running for this office, please print your name on the nomination sheet posted on the east side of Winnett (outside the MOSH's office) and follow the directions. A reminder also to those who have already signed up: campaign statements are due to the Tech by 5:00p.m. this Wednesday, 13 April. All nominees are strongly encouraged to submit statements. The Special Election will be held on Monday, 18 April 1994. Questions or comments should be directed to the ASCIT Secretary, David Derkits, at *dderkins@cco* or x1402.

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**THE EXACT NATURE OF THE UNIVERSE & GOD**

By Joel WEBB

**A Study of Surface Mechanics**

Topics include the computer simulation of the nuclear-gravitational force continuum, neutron fine structure, the Contracting-Universe hypothesis, the first events and processes found in nature and luminiferous ether re-visited.

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**Adam Villani: Media Guy**

by Adam Villani

**The Hudsucker Proxy**

Joel and Ethan Coen, the director and producer of such outrageous works of genius as *Raising Arizona* and *Barton Fink*, have struck gold again with *The Hudsucker Proxy*. Tim Robbins plays an eager lad just out of business school who can only find a job in the mailroom of giant Hudsucker Industries. As luck would have it, though, the president of the company takes a running leap from the 44th-floor boardroom and the vice-president (Paul Newman) hires Robbins to head the company as a puppet, hoping with the board of directors to buy control of the Hud after the stock plummets. Robbins invents the Hula-Hoop and it becomes the biggest fad ever, sending the company's stock soaring and the board fuming.

The Brothers Coen are possibly the best, most consistent filmmakers active today. Their bizarre camera work, characterizations, and art direction turn the real world into a fantasy world in a way that enhances the story instead of overpowering it, which is what happened to Martin Scorsese's *The Age of Innocence*. *The Hudsucker Proxy* is accessible both as a work of cinematic art and as a hilarious fairy-tale comedy. Jennifer Jason Leigh is also pretty cool as a hard-nosed proto-feminist reporter who infiltrates the Hud as Robbins' secretary. This movie gets the Media Guy 1994 Pick of the Year (so far).

**Belle Epoque**

This Spanish film won the Academy Award for Best Foreign Film, beating far superior films like *Farewell My Concubine* and *The Wedding Banquet*. That's not to say that it was a bad movie, but that this enjoyable romantic comedy was nowhere near the caliber of those great pictures. *Belle Epoque* tells the story of a deserter from the Spanish army, Fernando (Jorge Sanz), who stays at the big country home of an eccentric artist (Fernando Fernán Gómez, as one of the coolest old guys on screen recently) who has four beautiful daughters. Of course, Fernando falls in love with each one of the daughters. Unfortunately, by the time he falls for the fourth and youngest one, the viewer begins to wonder why Fernando can't control his hormones better and the screenplay loses fire. Nevertheless, things start out pretty wild, with the lesbian daughter Violeta (Ariadna Gil, in one of the film's best performances) seducing our protagonist at a gender role-reversing carnival. Despite the oft-witty script and great performances by Gil and Gómez, this lightweight movie doesn't hold a candle to the films it beat for the Oscar, or to *Like Water For Chocolate*, the passionate Mexican romance still playing at the Academy.

**South Central**

This much-talked about dramedy set in a "typical" family's home in South Central L.A. seems far too much like an attempt at producing "significant" programming rather than actually producing quality T.V. (such a thing actually does exist). This Fox television show actually does do a reasonable job at focusing on "real life", but the writers forgot that stringing together a few "day in the life" situations of no great originality isn't a good way to make an interesting T.V. show. Perhaps the problem is that they tried so hard to make a typical family that they created one that's completely ordinary. If the stories get better the show might be worth watching, but for now don't bother.

**The John Larroquette Show**

John Larroquette (Night Court) stars as a recovering alcoholic working as a night manager at a bus station. This show is set in a raunchy world and has lots of off-color language and humor yet instead of gratuitous language and "adult situations" that serve merely to be controversial (*NYPD Blue*), it is about the ability of people at the bottom of society to be courageous and make the best of things. For example, in one of this week's episodes, John Larroquette's character is held up at gunpoint and told to drink by a man he had unknowingly been cuckolding. John holds on to his dignity and refuses to drink. But more than being moralistic, this show has good, solid writing and an excellent, entertaining supporting cast.

**Musical Ragnarok**

Everything in the music world happened this Tuesday. Lenny Kravitz canceled his tour, Morrissey postponed his, the Leonard Peltier benefit with Rage Against the Machine was postponed, Andy Fletcher stepped out of Depeche Mode to "take care of the band's business matters", and Nirvana "temporarily" split up due to Kurt Cobain's affinity for screwing himself up. Wow.

**CLASSIFIED ADS****FOR SALE—**

**HUGE GARAGE SALE** at Polytechnic School's gym: 1030 E. California Blvd., 8 a.m.-3 p.m., Sunday, April 10. Information: (818) 757-6514.

**HELP WANTED—**

**MACINTOSH USER SUPPORT** position available. Primarily office environment with PCs and UNIX. Duties include: installation of hardware and software; help-disk; troubleshoot LocalTalk/Ethernet/TCP/IP network; maintain local and wide-area mail services. Send résumé to: 525 Post Production, 6424 Santa Monica Blvd., Hollywood CA 90038.

**TECHNICAL EDITOR**

Editor wanted with major in communications, journalism/English to edit technical papers. Contact ARK International at (818) 791-8899.

**REAL ESTATE—**

**ABOVE JPL.** Charming 2-bedroom cottage, private road, secure, hilltop, beautiful views, near trails/streams. 3636 Canyon Crest Road, Altadena. 20% down. \$149,000. (818) 798-2020 after 5 p.m.

**SUMMER EMPLOYMENT—**

**SUMMER OBSERVERS.** There are several positions open for summer employment at the Big Bear Solar Observatory. The jobs involve solar telescope operation, film processing, electronics work, computer programming, etc. Free housing at Big Bear is provided, and cooking facilities are available. There are recreational facilities (boats, etc.) as well. Some astronomy, physics, computer science, or electronics would be useful. Applications are available in 264 West Bridge, or can be obtained by calling x4011. Programming and data analysis positions on campus may also be available.

**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.

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FROM CONFERENCE, PAGE 1

naires in different ways, from filing them away to be given to professors at their request, to making division chairs responsible for personally discussing the questionnaire results with each faculty member. This disparity obviously creates a high degree of variability with respect to the attention that teaching quality questionnaires receive among the different departments, and hence to the significance attached to them. Standardization of questionnaires would provide for a more reliable method of tabulating teaching quality feedback data. The committee also presented a "mid-term" questionnaire that would hopefully encourage a better response turnout by facilitating changes that would affect those filling out the questionnaires, rather than next year's students. While there was a good deal of support for the new questionnaires, there was also concern that the forms were too lengthy and detailed, and perhaps not specific enough in terms of addressing issues within a department. The questionnaires will be further investigated; the exploration of additional means of generating feedback by promoting student-faculty interactions may involve cooperation with the Improving Communications committee as well. Additionally, the committee will be looking at ways in which the CLUE might be improved.

#### HONOR SYSTEM

Six primary proposals were presented by this committee. First was the issue of confidentiality of student grades - since exams and homeworks are often easily accessible, removing the problem of students looking at others' work and scores can be as simple as writing scores in less obvious pages or returning papers individually. Second, it was agreed that oft-used areas of campus buildings should be open to students after-hours; to prevent access by unauthorized persons, a master key system should be created to allow access to hallways, reading rooms and classrooms, whereby students would receive a key upon entry into the institute that would be collected upon their departure. Third, honor system education of the community, from undergrads to grad students to faculty, and throughout the community, needs to be improved, for example through reevaluation of material taught to freshman (at frosh camp, BoC talks), more extensive presentation of information to TAs and other grads, annual Honor System presentations to new and visiting faculty, and publication of expanded Board of Control statistics. A fourth area of concern addressed

the respective responsibilities of students, faculty, and TAs regarding collaboration policies - these include: students needing to seek clarification of vague collaboration policies, professors trying to be as clear and consistent as possible and considering several specific criteria (e.g., time limits, extent of collaboration, use of other texts, size of collaboration groups, etc.), and TAs making certain they are familiar with the policy,

as well as the Honor System and the Board of Control. The last two recommendations included the institution of an Ethics class that would be required for all incoming students, and a survey among students (and possibly faculty) to determine the efficacy of the Honor System. Additional discussion and clarification will be necessary for all of the proposals, but significant support was voiced for most of the committee's ideas.

While it is true that many of these proposals will require a great deal of time and effort before any effects can be seen, the committees and I are hopeful that progress will be made. If you would like to follow up on any of these ideas, contact me at 683-9623 or floho@cco, and I'll put you in touch with the people who are really in charge! Thanks to everyone who supported and participated in the conference!

EarthWalk 1994 is coming up fast! Come out on April 17th and join the Tech team to walk 10km. This is a great chance to help raise money to save the environment and get in some exercise at the same time! The walk will be hosted by Jay Leno. Please contact Gina Serraiocco at x1440 for information and sign-ups.

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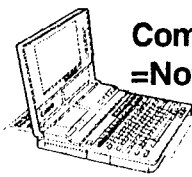
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## Notice

☛ **Work for the Mosh**—Make a little extra money and get a free dinner! Duties include: Helping serve dinners and cleaning up for the MOSH dinners. See Denton in the Residence Life and Master's Office for more details.

## Coming Events

The Eighth Annual "All Mozart Concert"—will be held Saturday, April 9, at 8 P.M. and Sunday, April 10, at 3:30 P.M. in Dabney Lounge. Featured performances include String Quartet in C Major, K. 465 and Church Sonata, K. 336 by the Caltech Chamber Music Program, Mass in C Major, K. 337 by the Caltech Chamber Singers, and Piano Concerto No. 20, in d minor, K. 466 by Wendy Caldwell. Admission is free.

1994 April Blood Drive—There will be a two-day blood drive in the Winnett Student Lounge, Tuesday, April 12, at 9:15 A.M.-2:30 P.M. and Wednesday, April 13, at 12:15 P.M.-5:30 P.M. Please contact Veronica Kirton at x6374 for an appointment, although walk-ins are welcome.

The Caltech Jazz Bands will play at the Local Jazz Club **The Baked Potato** on Sunday, April 17, from 8:30 P.M. until midnight. Located at 25 E. Colorado in Old Pasadena, the Club has a great sound system and serves food and drinks, specializing in baked potatoes. General admission is \$8, and \$4 for students with ID. There is a two drink minimum. Friends of Caltech Instrumental Music are entitled bring one guest and both get in free of admission. The guest soloist is Angie Whitney. For reservations and information, call the Baked Potato at (818) 564-1122. Reservations are recommended.

**FOCAL Drive Collection Underway**—donations of books are needed for the annual Friends of Caltech Libraries (FOCAL) "Whale of a Sale" book sale, scheduled for Friday, May 13 from 8:30 A.M. to 2:30 P.M. in Dabney Hall. New and used books, hardbacks, and paperbacks, as well as tapes and records are being collected from members of the Caltech-JPL community in a drive that begins April 1. Bring Donations to the first floor of Millikan Library between 9 A.M. and 5 P.M., or the JPL Library lobby, Building 111. For more information, contact Janet Jenks at 395-6419 or 354-4200. A book collection part has been scheduled for Saturday, April 16, from 10 A.M. to 1:30 P.M. Refreshments as well as help in carrying books will be available. Proceeds from the sale benefit special Caltech book collections. Club and Organization News

The new 1994 MCAT (Medical College Admission Test) packets have arrived! You may pick up yours in the Career Development Center, Room 08, Parsons-Gates. Hurry, they are Due March 25. You may register as late as April 8 but there is a late fee. If you have any questions call the Career Center at x6361.

**The Caltech Hillel**—Weekly student-run Shabbat services are available every Friday at 5 P.M.. On the first and third Fridays of the

month, services will be held in Caltech Women's Center, and on the second and fourth (and fifth, if applicable), services will be held at Occidental College. There will be transportation available to Occidental College. For further information, contact Gary Mines at x6542 or gam@juliet.

**Adult Children of Alcoholics**—Twelve-step group meets on campus every Tuesday, from 12 noon to 1 P.M., in Spalding Lab room 113. The group is open to any student, staff member, or member of the faculty who grew up with family alcoholism and other problems. For more information, call Dinah Lee Schaller at 395-8331.

**Caltech SEDS** 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 sub-systems (gamma-ray astrophysics and atmospheric chemistry) is not necessary. All members of the Caltech and JPL community welcome. Contact Ben McCall at x2902 or bjmc@caltech.edu.

## Services and Classes

**Ballroom Dancing Lessons Available**—Thursdays at 6:30 P.M.. April 14 and 21 at Winnett Lounge. The lessons are free. No partner or experience is required. For more information, contact Sharon Kedar at x6971 or sharon@seismo.gps.

**Guitar Classes at Caltech**—Caltech Guitar Classes for the Spring Quarter meet on Tuesday afternoons in Room 1 of the Student Activities Center (SAC) as follows: Beginners at 4:30-5:30 P.M., Intermediate 5:00-6:00 P.M., and Advanced at 6:30-7:30 P.M.. Classes and Flamenco repertoires are explored, but techniques transfer to other styles of guitar. The Beginning Class includes a jazz/folk chord system. Classes are free to Caltech students and other members of the Caltech Community (space permitting). Undergraduates can receive 3 units of credit if they choose. Private instruction on any level can also be arranged. The instructor, Classical guitarist Darryl Denning, has an international background in performance, teaching, and recording, and can be reached at (213) 465-0881.

**Women's Psychotherapy Group**—This ongoing psychotherapy group will examine a range of issues relevant to women's lives and experiences. We will explore the barriers for women in achieving success, balancing career and personal goals, and challenges in professional or personal relationships. These and other concerns raised by group members will be discussed in a confidential group setting over the rest of the academic year.

**Relaxation and Stress Management Workshop**—Dr. Jon Pedersen and Kathi Campbell, M.A. will teach interested students a variety of relaxation techniques aimed at the management of daily stress. The workshop will include some lecture material but will primarily consist of individual exercises in relaxation

# Events and Notices

techniques including muscle tensing, imagery, passive and active concentration, and an introduction to non-mystical meditation. The focus of the workshop will be on practical methods for everyday use, which can be learned quickly with daily practice.

## Procrastination

☛ **Are you looking for help in dealing with procrastination?** A six-week Procrastination Group for students will be presented beginning April 18. The group will provide an opportunity to discuss procrastination difficulties, to examine the psychological issues which may contribute to procrastination, and to learn ways to begin to overcome procrastination. Kevin Austin, Director of the Student Counseling Service, will lead the group with staff members Kathi Campbell, M.A. and Irene Stern, M.A. The group will meet on Mondays from 3:30 P.M. to 4:45 P.M. in the Health Center Lounge. For more information call Virginia at x8331 to arrange to meet one of the group leaders prior to beginning the group. This meeting is required in order to attend the group.

## Lectures and Seminars

☛ **The German Film Series** continues for the Spring '94 term with **Der Zerkbrochene Krug** (1937). It will screen on Thursday, April 14 at 7:30 P.M. in Baxter Lecture Hall. This movie features English subtitles and will be shown free of charge. Call 395-3610 for further information.

## Scholarships, Internships, & Competitions

☛ **Math Awards Offered**—The E.T. Bell Undergraduate Mathematics Research Prize: \$500 will be awarded for the best original mathematics paper written by a Caltech junior or senior. Nomination/sponsorship by a math faculty member is required. The Morgan Ward Competition: Any Caltech freshman or sophomore may enter by submitting a mathematical problem and solution or contribution toward a solution. Entries are judged on the nature of the problem and the originality and elegance of the solution.

☛ **Summer Work-Study**—Information and applications for 1994 Summer Work-Study are available in the Financial Aid Office. If you are interested in Summer Work-Study, please submit the required application as soon as possible, but no later than June 1, 1994. Your entire financial aid application must be complete by June 1 to be considered. If awarded, the work-study funding will begin with the July 4th payroll period.

**1994-95 Merit Awards**—Each year, the faculty Committee on Scholarships and Financial Aid Awards a number of Merit Awards to the most academically talented of the

Institute's Sophomores and Juniors, and in special circumstances, Freshmen. Merit Awards are based on outstanding scholastic achievement as demonstrated by exceptional performance in formal classes and/or independent research, and not on financial need. Last year, the Committee recommended a total of 43 Merit Awards. Awards ranged from \$5,000 to full-tuition, \$15,900. The level of awards in any year is determined by the number and caliber of the applicants. Applications are available in the Financial Aid Office at 515 Wilson. The deadline for submitting COMPLETED applications to the financial aid office is 5:00 P.M. on April 29, 1994.

☛ **Jewish Family and Children's Services** is accepting applications for student loans, grants, and scholarships of up to \$5000. Jewish students who are residents of San Francisco, the Peninsula, Marin, or Sonoma Counties (for scholarships and grants), or residents of the Bay Area (for student loans), and who demonstrate financial need and academic achievement are eligible to apply. To receive an application, call (415) 561-1226 or come by to the financial aid office. Applications are accepted throughout the year.

**The John Gayles Educational Trust** is offering financial assistance to Canadian and American citizens. Selected students will receive up to \$2,500. A minimum GPA of 2.7 is required. Deadlines range from April to November. For an application, send a self-addressed, stamped #10 envelope to: The John Gayles Education Fund, Attention R. James Cogle, Administrator, P.O. Box 4808, 712 Riverside Drive, Fredericton, New Brunswick, Canada E3B 5G4.

The Japanese Government is announcing their **Monbusho Scholarship** competition for

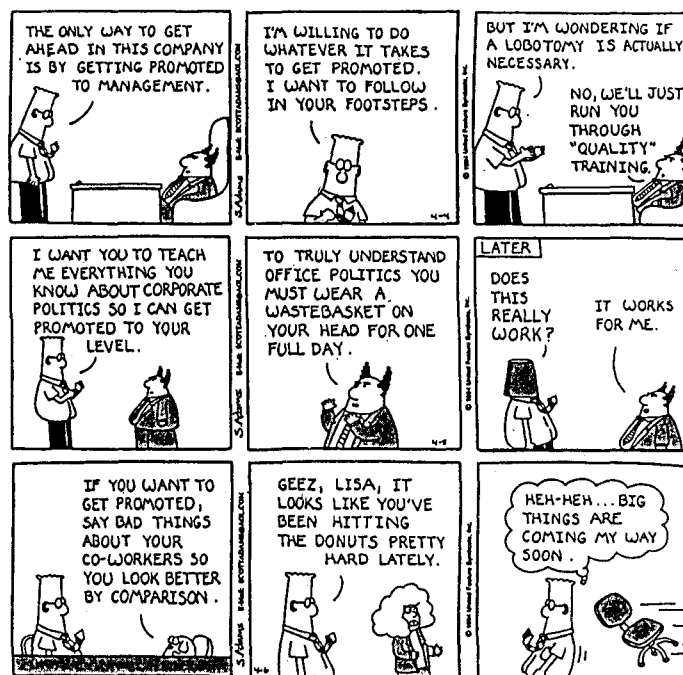
**American students specializing in Japanese studies.** Applicants must be US citizens, between ages 18 and 30 as of October 1, 1994, and third or fourth year students specializing in a field concerning Japanese Language or culture. Applications must be postmarked by Friday, April 8, 1994. Application forms are available at The Japan Information & Culture Center, Consulate General of Japan; 350 S. Grand Avenue, Suite 1700; Los Angeles, CA 90071. For further information, please call Ildiko M. Gedeon at (213) 617-6700, x 338.

**The American Society of Mechanical Engineers** is offering a number of scholarships to students enrolled in the mechanical engineering program. Some scholarships require the student be an ASME student member and some require US Citizenship. Awards range from \$1,500 to \$5,000. Demonstrated financial need may be necessary. The application deadline is April 15, 1994.

**The Society of Women Engineers** announces its 1994-95 Freshman and Reentry Scholarship Programs. The Freshman Program consists of eight scholarships of \$1,000 each for entering woman engineering students. The Olive Salenbier Reentry Scholarship is designated to encourage and aid women in reentering the job market as an engineer after being out of the work force for a minimum of two years. Applications and supportive materials must be postmarked on or before May 15, 1994.

**The National Hispanic Scholarship Fund** is offering scholarships to qualified Hispanic students. Applicants must be full-time, daytime students who have completed a minimum of 15 college credits and are US citizens or permanent residents of the US. The deadline to submit applications is June 15, 1994.

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