

Ditch Day  
is not today

# THE CALIFORNIA TECH

Volume XCI, Number 26

Pasadena, California

Senior and Junior  
Class Elections are  
Today.

May 11, 1990

## Board Prices to Increase 25%

By David Stevens

Once again it is that time of year when spring is in the air, summer vacation is just around the corner, and board contract negotiations become a pain in the neck for me personally. Through great hashing about and a deal of number crunching, next year's board rates have been decided. The purpose of this article is to explain these new rates in a way that has been untried before: so you understand a bit where they are coming from. If you have any questions, you are still welcome to discuss them with your food reps.

As may be assumed with any business, prices are not going to drop next year. Yes, they in fact are going to go up. There are many reasons for this, which I will attempt to outline. PLEASE UNDERSTAND . . . any numbers I may use here are due to my personal computations after reviewing Burger Continental's ledgers. One of the events leading to a price increase is the addition of many items to the service that are above and beyond those called for in the contract. BC has recently provided many upgrades to the board service: a wider selection of cold cereals, various condiments provided for the hamburgers at lunch, individual Yoplait cups at dinner, etc. These additions were brought before the Food Service Committee before being implemented by BC, with the understanding that if these items were popular enough to merit keeping them around it would be necessary to reflect their added costs in next year's rates. When board rate discussions first began, the FSC decided that the additions were in fact nice to have around even given that someone (i.e., the students) must pay for them. Now these new items are being added to the contract to guarantee their continued existence ad infinitum.

Another obvious area that leads to the rate increase is the evil of inflation. As many of you may be aware, BC buys large quantities of food items at a time direct from the broker in order to keep costs down and, subsequently, quality up.

Over the past year, due to various world events, the cost of many food items that BC uses most has increased by as much as 40% and more. (No, really, I've seen the numbers.) Added to this is the cost of labor. Effective in June (I believe its June, don't quote me) there will be another mandatory increase in minimum wage by (again, don't quote me) around 10%. It is expected that these large price increases will level off next year, but unfortunately it is not next year right now.

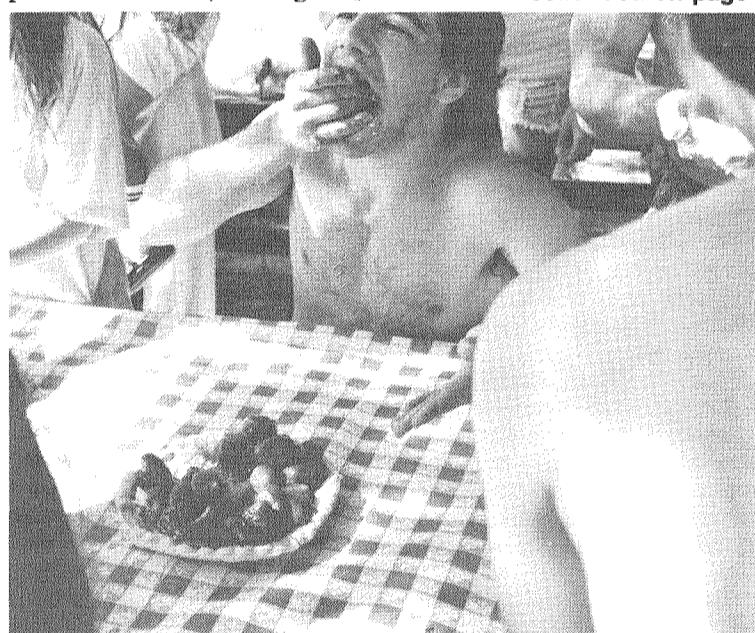
Another area that is leading to a price increase is perhaps a touchy subject, but nonetheless it is a very real problem. This would be the problem of stolen food and supplies. This year more than any other the problem of theft has become apparent. The FSC, the BOC, and the administration all have taken notice and are trying to deal with the problem. The bottom line is that this theft leads to an increase in board rates. This year, close to \$100,000 was lost due to food theft by students. This manifests itself in many ways: eating guest meals without filling out orange cards, taking cereal and Yoplait and fruit to rooms, taking plates and utensils, abusing alley-

milk privileges, etc. Nearly 10% of this year's increase can be attributed to stolen food and supplies.

SIDE NOTE: Personally, I think that the abovementioned problem is just one instance of the degradation of the Honor System. When I was a frosh, the Honor System was something respected and held dear by everyone I dealt with. Now, four years later, I hear more scoffing and laughing concerning the Honor System than anything else. I think it would be great tragedy if something as wonderful as the role the student currently plays at Caltech became extinct due to the lack of those students to realize a good thing when they see it, and strive to maintain its privileges. And now back to our story . . .

The above items are the primary and most obvious reasons for a board increase. In figuring the amount of the board increase, the costs of the current year were analyzed. Without going into all of the gory detail, the picture is this. BC will spend approximately 1.1 million dollars this year toward the student board program. (Yes, this pulls out Chandler, catering, etc.) There are 163 board days this year

continued on page 5



Andre Ohanessian, multi-sport athlete was beaten by two ten-year olds in the pie eating contest at Sports Day.

photo by Craig Sosin

## More Men and Minorities (Or Less Women and Majorities)

by Mac E. Thion

Next year's freshman class will have fewer women and more underrepresented minorities than this year's class, according to Director of Admissions Dan Langdale. This is based on the 191 students who were offered admission and who have accepted, but it does not include those who were initially placed on the waiting list and who have since been offered admission. About 25 of the students accepted from the waiting list are expected to accept, bringing next year's incoming class close to its targeted membership of 215.

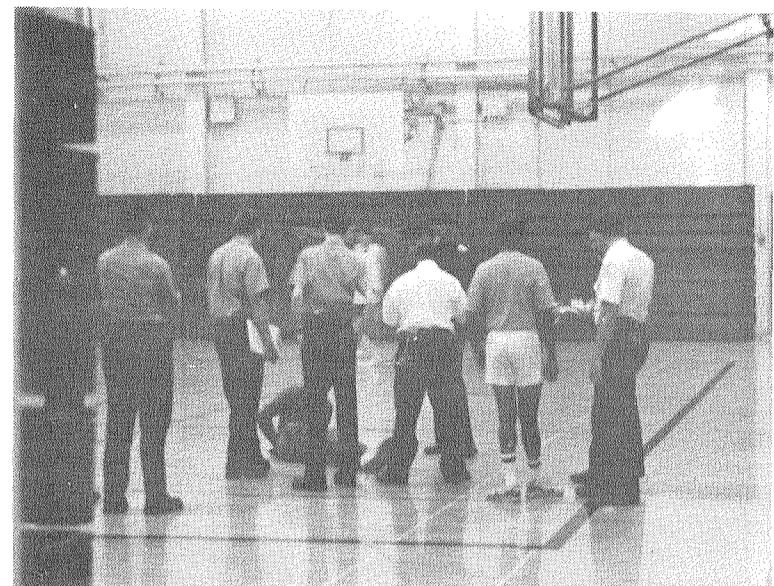
Of the 191 who have accepted so far, 137 are male and 54 are fe-

male, which would correspond to about 10 more men (and 10 fewer women) than last year, if the incoming class contains 215 students. The enrollment of "underrepresented minorities," composed mainly of Afro-Americans, Hispanics, Puerto Ricans, and Native Americans has doubled roughly, from 10 last year to 22 this year. This is a significant step towards obtaining the critical mass of minority students suggested at the second Conference on Diversity at Caltech.

Of the students who have accepted offers of admission, 30% are from California, 13% from the West, 15% from the Midwest,

21% from the South, and 15% from the Northeast. There will also be 8-12 international and foreign students next year, depending on how many of those accepted from the waiting list decide to attend. There will also be 21 students attending on a 3-2 program.

Of the 444 accepted, 42% have decided to attend. Among those who came to prefresh weekend, the percentage is higher, about 60%. Dan Langdale said it was uncertain whether this was because prefresh weekend convinced the students to come or because the ones who were more interested in coming to school here decided to prefresh.



Violence erupted at the gym after Sports Day. Pasadena Police and an ambulance were called. See Crime Beat 5/6 for more details.

## Boffo Broomball

Game Time	Teams	Scorekeeper	Team Names
11:00 pm	3vs4	6	1. Beer and Bacon
11:25 pm	5vs6	8	2. Page Waiters
11:50 pm	7vs8	2	3. The Ultimate Warriors
12:15 am	1vs2	10	4. Flees' Beaters
12:40 am	9vs10	3	5. Asian Invasion
1:05 am	2vs3	5	6. 8 Bastards and 1 Shithead
1:30 am	4vs5	7	7. Damn Scurves
1:55 am	6vs7	9	8. G-Force
2:20 am	8vs9	1	9. Brawling Blood Bouncers
2:45 am	10vs1	4	10. Mystery Team
3:10 am	Playoffs		

## CRIME AND INCIDENT BEAT

CRIME TIP: Look both ways before crossing the street. If you fail to do this, and get hit by a car, call security immediately.

5/1 A student left his camera in a Kellogg office. The room is generally left open so that people can have access to the copier in the room, but the camera was stolen.

5/1 Scaffolding fittings, valuable as scrap metal, were noticed stolen from the Synchrotron basement.

5/2 A bicycle was stolen from the South entrance to Steele Lab. The bike was not locked.

5/3 An undergraduate reported that he believed that some CDs that had been mailed to him were stolen. The student received a bill, but no music.

5/4 A housing staff member called security to report a strange man carrying a "Garfield the Cat" balloon on the Olive Walk. An officer located the man, who wanted to argue about mass/weight/rate of fall and its relation to Chapter 18 of Matthew. The officer just wanted to know what the man was doing there. The man produced a Caltech Alumni ID card; he was a member of the class of 1947. The suspect has previously been identified as leaving letters for faculty pertaining to God, the CIA and the end of the world. The officer advised the man to continue on his way, but he stated loudly that he had a right to move at his own rate of speed/mass/time. He walked off. Moral of the story: stay away from people who have graduated but still hang around.

5/4 A blue and grey Honda Prelude belonging to a faculty member was stolen from Chester parking lot. Pasadena police were called. Also stolen were clothes that were in the car.

5/4 A faculty member was absent from his Kellogg office for a few days. When he returned he discovered that his camera and pocket watch had been stolen. The office was locked, and there was no sign of forced entry.

5/6 During Sports Day, a man hurt his head in the gym, became disoriented, and then turned violent. The Pasadena Police and an ambulance were called and responded. (see photo)

5/7 A student locked his bicycle to a post with a Kryptonite lock in front of Catalina III, but that didn't stop a thief from stealing it.

5/7 The Ricketts House librarian reported that 30 to 50 reference books, stamped with the words "Ricketts House", were stolen from their library. The library is open 24 hours a day. Additionally, a set of encyclopedias and a set of Feynman Lectures were stolen from Blacker's library.

5/10 The computer the Crime and Incident Beat editor was using at the security office crashed as he was saving this week's column and he had to start over from scratch. Frustrated, he only retyped the week's crimes—no incidents.

Total dollar value stolen this week: \$17,845.19.

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# letters

## Don't Cut EE's

Dear EE Department Faculty,

The proposed 3.5 GPA requirement for Electrical Engineering majors is a mistake. This requirement not only prevents good students from continuing study, but also creates academic tension between students and faculty. The extraordinarily high 3.5 GPA requirement is an arbitrary and senseless cut-off, since academic prowess and practical engineering ability are not necessarily closely linked. It also does not address the issue of displaced EE majors who do not meet the GPA requirement.

It appears that one of the motivations for this requirement is the current lack of research opportunities—Dr. McEliece even suggests that eventually all EE undergraduates should have personal lab space for three years. This is a commendable goal, but not at the expense of losing valuable scientists and engineers because of an unreasonable requirement. Reducing the number of students in the option will not create research opportunities. The SURF program is already available for those who wish to do undergraduate research and the EE department could encourage more research by providing additional funding or creating its own program.

In the article, Dr. McEliece suggests that all EE's would want to do a senior thesis if they had the opportunity. This is questionable, since many engineering students intend to go into industry as design engineers rather than stay in academia. Perhaps the faculty should consider the needs of the students before determining what the priorities of the department should be.

Forecasters predict a major shortage of trained scientists and engineers, and major growth (40% by the year 2000 [Science, April 27, 1990]) in electrical engineering. Preventing good, motivated EE students from continuing simply contributes to this shortage.

Surely Caltech and the EE department can find more reasonable means to solve EE overcrowding while maintaining current enrollment and without sacrificing education quality. For example, create discussion sections of 10-15 students in core classes like EE 14, 32, 40, and 180, each with separate recitations, as is done in Ch 1 and Ph 1 and 2. Improve TA quality

and student/professor rapport; this will encourage students and improve the department overall quality.

Sincerely,

—Rob Williamson  
Steven Clinard  
Fleming House, 1-57

## UASH Replies

To the editors:

All right, I think this has gone on just a bit too far. The letters back and forth between myself and UASH and Michael Lazzaro and Elaine Lindelef are serving no purpose other than entertainment for the readers of the Tech—about which I've been told they approach the level of Jim's Journal.

I would like to start this by saying it is unfortunate that both Mr. Lazzaro and Ms. Lindelef feel that I think Ms. Lindelef has no opinions of her own. That is not what I meant, and I'm sorry such a concept was inferred. However, I must insist that since Ms. Lindelef has never appeared before UASH, and since she has not spoken to anyone on the committee (to their recollection), I think that it is a perfectly valid assumption that her opinions have been formed in part by the opinions of her close friends) among whom is Mr. Lazzaro, known to have strong opinions about UASH's current structure and method of operation.

I don't know the tone in which my previous letter was received, but it was meant to impart some information about UASH, and to dispel certain rumors about the committee that I feel are unfounded. I had attempted to accomplish these things in as limited a space as possible, so that my letter would be read, instead of skipped over. I did not just refer readers to the Caltech Catalog as a reference on UASH. I also gave the names of the student members of the committee and emphasized our willingness and availability to talk to anyone about UASH policies. This, in effect, is the best I can do. However, I was not taken up on this offer. Instead, I was personally attacked in a letter the following week—not exactly the best way to promote good relations between myself (together with the rest of UASH) and the rest of the student body.

In closing, I just want to stress that I consider myself to be a

representative of the student body on UASH, not a representative of UASH to the student body. Also, please realize that I am available for discussion on, and open to suggestions about changes to, UASH. Thank you for your time. Sincerely,

—Dave Jeitner  
1-54, x6829

## The Chemistry of Yogurt

To the Editors:

I am writing in regard to Mr. Baumert's letter in the 27 April issue of the Tech.

It is not surprising that three-month-old yogurt still appears (and quite possibly is) edible. I have worked at two businesses that sold a good deal of yogurt. Occasionally one would get lost in the rear of the cooler and not be found for a month or two. They almost always appeared as good as fresh. I and my co-workers ate a number of them to no ill effect.

Yogurt was likely discovered by accident and cultivated as a means of preserving milk before refrigeration. This was important for herding tribes which cannot depend on dairy products for their sustenance as small herds cannot always be managed so as to have a constant supply of fresh milk.

Yogurt becomes so by the fermentation of milk sugars to form lactic acid. When the pH falls to the isoelectric point of the casein in zwitterion (4.7, I believe) it becomes electrically neutral and then the casein becomes self-attractive because van der Waals forces dominate. This causes the congealing of the yogurt. The low pH makes the yogurt inhospitable to almost all other micro-organisms.

The yogurt suppliers at my previous places of work offered full refunds for all past date yogurt; we had only to supply them with the dated lids.

To all of these considerations add that the cup of yogurt costs BC only about \$0.40, that bulk yogurt costs at least half that, and that labor costs BC at least \$0.07 per minute and it seems unlikely that the past-dated yogurt cup had been refilled.

Thank you for your attention.  
Sincerely,

—Russell Bell, '76

# editorial

## Cancel the Food Service

and South houses where one thousand meals a day are served. I am sure these could be converted for student use.

We could allow catering services on campus as a convenience for students. Chandler would be another possibility for meals. The coffeehouse would be allowed to stay open during lunch and dinner hours.

College is supposed to teach students to live on their own. After they graduate, they will not have a meal service. The time to learn how to prepare meals on your own is when you are surrounded by other students in the same position.

Students would not be locked in to eating dinner at 6:30 every day. There are often sporting events, or activities planned for these times. Students often miss meals which they have to pay for.

Finally, many students dislike the food so much they go out to eat all the time anyway, despite the fact they are paying for ten dollars of food a day (this year) which they are not eating.

—Scott Kister  
editor

## THE CALIFORNIA TECH

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# Y News

# Y News

"Caberet". The shows will be start at 7:30pm on Sunday, May 20, and Saturday, May 26. The performances are at the Keck Theater on the campus of Occidental College.

**Y Ridesharing:** The Y is helping arrange ridesharing for students going home this summer. If you can drive or if you need a ride (and are willing to contribute some money for gas) stop by the Y to use the ride board outside.

**Comedy, Magic and the Power of Suggestion:** Tom Deluca, voted National Campus Entertainer of the Year by NACA, will be performing Monday, May 21, from 8:00 to 10:00 PM in Ramo Auditorium. Prepare now for a most unforgettable evening of stand-up comedy, a humorous slide show, magic tricks and "Imaginism." In a heightened state of awareness, volunteers are meant to participate in a blend of fantasy and the power of suggestion. But watch out for claims of ESP. He might be full of baloney. Well, if you're not interested, at least I'll go and see what his trip is all about.

**International Day Planning:** The next meeting to arrange International Day will be Thursday, May 17, at 8:00pm, in room 13 of the Student Activities Center. Anyone wanting to participate should come with their ideas to the meeting.

**Tickets for Caberet:** The Y has tickets on sale for \$6.00 (regularly \$10.00), for the musical

<b>FRIDAY NIGHT ASCIT MOVIE</b>	
<b>with The Nose</b> <b>Baxter Lecture Hall 7:30 and 10:00 p.m.</b> <b>\$1.00 ASCIT members \$1.50 all others</b>	
<b>Next Week:</b> <b>Heavy Metal</b>	
<b>LATE NIGHT NAIR MOVIE</b> <b>...it'll take your hair off...</b>	
<b>Videovore</b> <b>with Damage</b> <b>Baxter Lecture Hall 1:00 a.m. following regular ASCIT movie</b> <b>\$1.00 for ASCIT members \$1.50 all others</b>	

# Hufbauer on Livermore

by Chris Dunn

At Wednesday's SEEP Seminar Professor Karl Hufbauer explained the reasoning behind a recent recommendation that the University of California should not renew its contract for management of the Livermore and Los Alamos laboratories.

As a UC-Irvine Professor of History who in many years has taught a class on the development of nuclear physics and weapons, Hufbauer served as chairman of the University committee to determine the merits of continued oversight of the two weapons laboratories.

Unlike Caltech, the University of California manages national laboratories for a fee (about \$12 million) that is very small in proportion to the total university budget. UC officials consider the activity a public service.

The committee evaluated the relationship according to five criteria: 1) That it support the university's primary mission of education and research. 2) That it be consistent with the commitment to freedom of expression. 3) That the task be one that the university can perform as effectively as other institutions. 4) That it have no serious adverse effects on the university. 5) That it contribute to the well-being of humanity.

The committee allowed disadvantages to be canceled by advantages among the first four, but the fifth, if unsatisfied, would presumably contradict the stated intention of public service and was, therefore, given unique prerogative.

Objecting to the precedence placed on a criterion of such subjectivity, one audience member noted that the UCLA football team satisfied the first four but not the fifth.

The arrangement between UC and Los Alamos, for which Oppenheimer was responsible in 1943, stipulated termination within "90 days after cessation of hostilities," but after the war Lawrence believed that a long-term project would ensure the university funding for the planned Bevatron accelerator. The Livermore laboratory originated as a delayed response to Soviet developments.

Although both are primarily weapons labs—they are in part occupied with what Hufbauer calls "an institutionalized competition" to develop new warheads—much purely scientific research is conducted. About one quarter of the work done at either lab is classified, compared with ten percent at JPL.

Laboratory personnel fear that the labs would suffer from the bureaucracy of government management without the shielding of the university, but the existence of the labs will not be jeopardized.

## ASCIT MINUTES

April 8, 1990 10:30 p.m. MOSH's

**Present:** The ASCIT BOD, Sonny Arcilla, Dwight Berg, Gavin Claypool, Matt Fields, Mark Huie, Paul Socolow, Craig Sosin, Eric Stout, and Emily Wen.

**The California Tech:** The BOD votes (7-0-0) to pay the editors retroactively for third term using the compensation schedule agreed upon last week. Sonny would like to modify the compensation schedule for the business manager to include some sort of bonus system. Dwight: "Just tonight I read an article by Horton Moore on incentive clauses and their effect on productivity." "Business manager's salary is determined by base salary altered by dick length, IQ, and years of service." Half the BOD seems to want no more discussion of *California Tech* salaries for the rest of their term in office, but if he wants to bring a new compensation schedule by he can.

Sonny discusses the loan that the *Tech* will be taking out to purchase a new typesetter with a spiffy informational handout. Bill: "The lines on this don't line up. Will they with the new system?" Matt Fields: "Sonny, you should examine purchasing a cheaper Mac than the MacIIfx, since the *Tech* will probably be looking at buying a new typesetter eight years from now." Dwight: "Sonny, you should prepare a report to examine the net present value of the various Mac systems." The loan will be \$64,000 to be paid back in 8 yearly installments, and Sonny says the *Tech* should have no problem paying it back.

The BOD trusts Sonny (?) and tells him to use his best judgment. The BOD is mixed on the idea of buying a scanner, a device that would enable publications to prepare photographs for printing, rather than have an outside source do it. Proposed priorities for using the new system: (in order of priori-

ty) *The California Tech*, *Big T* and *little t*, ASCIT, students, other organizations.

**Other Stuff:** Glee Club thanks ASCIT for budgeting them money. A talk about how prefrosh weekend went will be held Thursday, May 17 in 101 Kerckhoff. Contact Marcy Whaley for more information. *Big T* editors have to pay their own salaries. The next ASCIT/Faculty meeting will be held Tuesday, May 29 at noon in Winnett Clubroom 1. Election on Friday, May 11 for Junior and Senior Class Officers.

**Social Stuff:** ASCIT Formal is this weekend. Contact Aimee Smith if you have not received your invitation. Crew will be held on the Olive Walk in the afternoon on June 1. Mark Huie is here to pick up \$80 for the purchase of two kegs for the event.

**Sonny Stuff:** Sonny has been discussing the InterClub Council (ICC) with some administration types. General consensus is that it should be comprised of three members: the SAC coordinator, an undergrad, and a grad. He'll bring some resolution for us to look at next week. Jack: "You know Mark, I bodyslammed him once." (apparently referring to Sonny)

**Fashion Tips and Surfing:** Craig's outfit is nice. Dress up for ASCIT meetings. You never know when people might come to take your picture. In between this discussion, our would-be GQ's discuss the Surfing Club and what actions, if any, should be taken.

**Upcoming:** Next meeting the final discussion for the 1989-90 ASCIT Teaching Awards will occur. Please come lobby for your favorite professor. The next ASCIT meeting will be Tuesday, May 15 at 10:30 p.m. in the MOSH's office. Free food, drink, and a fashion show by Sonny Arcilla and Craig Volden for all in attendance.

## Dr. Ruth and Genomes

by Ali Mortazavi

In an attempt to shed some new light on the moral and public policy dilemma of the human genome project, Dr. Ruth Cowan tried to apply to it the lessons from the history of technology as well as from feminist thought. To this end, she used the development of amniocentesis as an example of how any future discovery would be applied to American health care.

As a prelude to a direct discussion relating to the genome project, Dr. Cowan lectured on some of the basic tenants of the history of technology. She asserted that in all inventions that (a) the motives of the inventors do matter, (b) there always exists imbedded objectives (i.e. secret purposes that are not advertised/apparent to the buying public), and (c) all objects have unintended consequences. After giving several examples (ranging from refrigerators to condoms) and coming to the conclusion that we must be aware of all inventions, Dr. Cowan touched upon feminist theories.

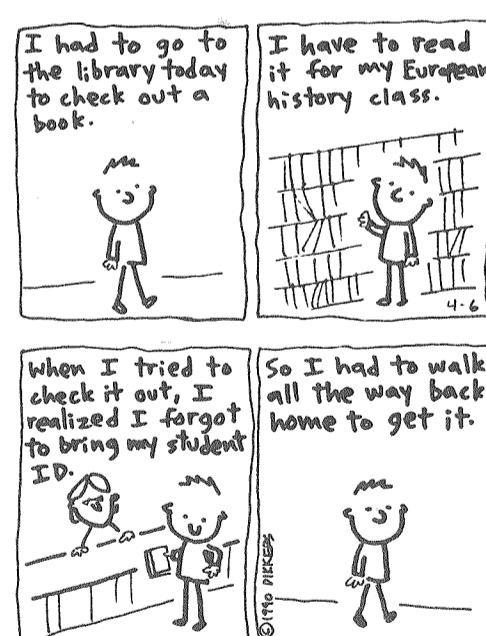
In the field of feminist ethics, she sided with those who think that "women have different life experiences, and therefore are faced with different moral dilemmas." Following a tale illustrating this idea, she advanced that in some cases (pregnancies, invalids, etc...) the "nurturer" - the person taking care of the subject - should make the tough decisions. From there, she went into the history of amniocentesis. This medical operation is used to determine the characteristics of a fetus while still in the womb of the mother; due to its potential threat to the pregnancy, it is recommend in only some cases. After describing the history of the procedure from a mere scientific discovery to a routine

medical treatment, Dr. Cowan tied in the whole talk into what amounted to a preview of some of the features of the genome project.

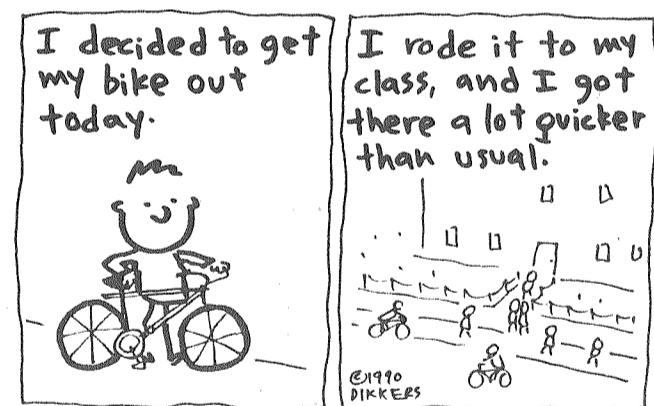
Cowan pointed out that the introduction of any such innovation would greatly affect the medical system and worsen some of its flaws (among others, nurses and patient passivity, a high level of expenses for the most sophisticated methods). She also mentioned the commonly held fear that the wealth of information obtained on an individual would be used for non-medical purposes. To prevent any of these foreseeable problems, she advocated parental control, protection of the patient's health, full disclosure of results, and non-directive counseling. She did however note that we can be certain that more unintended dilemmas that we have not thought of yet will come along.

Following the talk, the Honorable Shirley M. Hufstedler, Former Justice, U.S. Court of Appeals for the 9th Circuit and a Caltech trustee, gave a mesmerizing talk on the relation between science and society. Among other things, she regretted the widening gap between scientists and the general public, the inability and/or unwillingness of the executive and legislative branches to deal with politically controversial innovations, and the resulting overloading of the judicial branch. She urged Caltech scientists to continue educating the public as a way to allay all these problems.

Dr. Ruth Cowan is a professor of history at SUNY at Stony Brook and is currently a Fairchild Scholar in residence at the Institute. The next genome seminar will be held May 17th, at 4 PM in Baxter Lecture Hall.



### Jim's Journal



by Jim



### MANDARIN CUISINE AND SEAFOOD

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Richard Todd, principal hornist with the Los Angeles Chamber Orchestra, will be performing with the jazz band tomorrow.

## BANDORAMA Tomorrow

by Bill Bing

The Caltech Jazz Bands and Wind Ensemble will present their 11th annual year-end concert, BANDORAMA, on Saturday, May 12 in Rarino Auditorium. This concert, which is **FREE**, will feature guest artist Richard Todd, who is the principal hornist with the Los Angeles Chamber Orchestra. Besides being a great classical play-

er, Rick is also a very accomplished jazz musician. He has played with Branford and Wynton Marsalis, and is currently finishing up his second album, which will be released later this year.

In addition to Rick's solo, the *Concerto No. 1 for Solo Horn* by Richard Strauss, the bands will play music by Shostakovich,

Charles Ives, and Duke Ellington. There are lots of your fellow students who have worked hard to make this one of the best concerts ever, so come on out and support them. Oh yeah, there will also be a reception following the concert. Nothing like a three course meal, but hopefully enough cookies and juice to hold you over until you make the Tommy's run for the weekend.

### IT'S AN ANALOG WORLD AND WE'RE ON TOP OF IT.

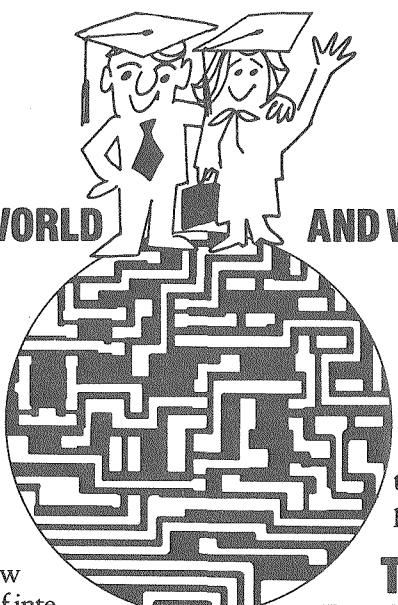
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## Environmental Update

by David MacKay

Since 1959, more than 4000 dolphins have been killed in the Pacific Ocean every week by the tuna industry, a dolphin holocaust of more than 6.5 million. Herds of dolphin are intentionally encircled with nets so as to catch the yellowfin tuna swimming beneath them. Tuna can be caught without harming dolphins, but some companies still set their nets on dolphin herds so as to maximise their profits.

Everyone is glad that a few companies have said they will only sell tuna fish that has been caught by other fishing methods. But it would be even better if this information were clearly displayed on the supermarket shelf.

The "Dolphin Protection Consumer Information Act of 1990" has been introduced in the House of Representatives and in the Senate; this legislation would re-

quire all cans of tuna fish caught by methods harmful to dolphins to be labelled distinctly.

What you can do:

1. Please write to your representative (Washington, D.C. 20515) and to your senator (Washington, DC 20510) urging them to support this legislation.

2. Tell your retailer that you would like them to join the demand for labelled tuna.

\* \* \*

Environmental Task Force meetings coming up:

White paper recycling group—SAC 16, noon, May 16th

Resource conservation group—Red Door, noon, May 17th

Trash club—Recycling center, Thursdays, 5-6 pm.

For further information contact David MacKay, mackay@laurel.cns.caltech.edu, or x6114.

## Airtalk and South Africa

KPCC-FM's weeknightly talk show, hosted by Larry Mantle, offers something special every month with "AirTalk: The Caltech Edition." The Caltech guests for the May 16 program will be John O. Ledyard, professor of economics and social sciences, and Edwin S. Munger, professor of geography, emeritus. Dr. Ledyard will talk about the economics of space, particularly the shuttle program and Space Station Freedom. Dr. Munger, who has traveled to Africa 77 times, will discuss recent social and political developments in southern Africa.

A regular feature of the show is a historical retrospective by In-

stitute Archivist Judith Goodstein. "The Caltech Almanac" presents a detailed look at some of the many interesting people, places, and discoveries in Caltech's history.

The hour of interviews and special reports from 6 to 7 p.m. also includes a preview of upcoming Caltech public events and report on Caltech people in the news. Listeners to "AirTalk: The Caltech Edition" on KPCC-FM (89.3) are invited to call in with their questions at (818) 798-2489.

The show will also be simulcast on Channel 55 for Choice Cable television subscribers in Pasadena and Altadena.



## Chess Team Wins Championship

[OPR]—In its first outing, the newly formed Caltech chess team won the collegiate division of the U.S. Amateur Team Western Regional Championship, held at the Holiday Inn in Pasadena. The University of California at San Diego finished second. Approximately 70 teams participated in the event.

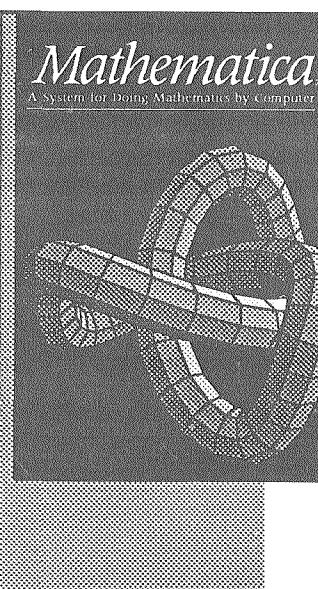
The team will proceed to the Pan-American Intercollegiate Chess Team Championship, an annual event in December where approximately 200 colleges will be represented. Last year, Harvard University won this competition.

The team members are Jones Murphy, a graduate student majoring in physics, first board and captain; Bruce MacCartney Filgate, a

sophomore majoring in physics, second board; Michael Pustilnik, a graduate student majoring in chemistry, third board; Frank Perez, a graduate student majoring in mechanical engineering, fourth board; and Ben Skrainka, a graduate student majoring in physics, alternate.

The chess team has no coach, and practices on an irregular basis in the Caltech Coffeehouse. The members had been playing together, and decided they would like to try their luck in the tournament in Pasadena.

"We've got a strong team, they're a nice bunch of guys to play with, and I'm looking forward to the championship in December," said Michael Pustilnik.



### Come Join The Mathematica Team

Wolfram Research Inc., developer of Mathematica, a system for doing mathematics by computer, is growing rapidly, and is looking for individuals in the following areas: Algorithm and Language/System Software Development, 3D Computer Graphics, Software Quality Assurance, Mathematica Evangelism, Technical Writing, Sales and Marketing, and academic sabbatical projects implementing specific algorithms.

Opportunities available in Champaign, IL, as well as some in Europe and Japan. Summer positions in Champaign available immediately. Send resumes to: Wolfram Research Inc., P.O. Box 6059, Champaign, IL, 61826. Fax: 217-398-0747. Email: resumes@wri.com

Wolfram Research

# Watson Lecture

by Ali Mortazavi

A packed Baxter Lecture Hall listened avidly to the words of wisdom of world-famous biologist James D. Watson on the Human Genome Project. As the person in charge of the National Institute of Health's (NIH) efforts on the initiative, he has been one of its most ardent supporters despite the growing number of critical and hostile biologists. He therefore tried to provide the moral and scientific justification for the undertaking of the three billion dollar project. He also discussed some of the resulting moral dilemmas.

After going over the scientific merit of studying our own origin, Dr. Watson tried to justify the initiative on the basis of its future benefits to society. To do so, he had to define what separates good science from bad science (i.e. their fruitfulness). He also discussed at length the structural inequalities of funding at NIH and asserted that the moral duty of NIH-funded scientists to produce tangible improvements of the society's welfare. He noted that Congress is more willing than ever to fund projects such as this one, in which politicians see concrete hope for results.

Following a discussion of the objectives planned for the first five years, Dr. Watson addressed the moral dilemmas posed by the initiative. He disliked the idea of patenting or otherwise restricting the distribution of the data, but he couldn't think of any alternatives if no other country was willing to shoulder some of the cost of this endeavor. He also advised the setup of privacy laws regarding the use of a person's genetic information. He remarked that "the only thing that could stop the project will be people's fears."

The discussion that concluded the seminar was a lively one, for many a biologist strongly reacted to the Doctor's views and other cynical remarks on the importance of other biological fields. Dr. Watson was forced to clarify some of his earlier remarks in order to pacify his critics.

A recipient of a Nobel prize in biology for his joint discovery of the structure of DNA, Dr. Watson has also been the director of Cold Spring Harbor. His lecture was part of the genome seminar given regularly in Baxter Lecture Hall. The next genome lecture will be on "the social power of genetic information" next Wednesday.

## Food Increase

from page 1

in which to recoup this money. This breaks down to \$13.44 a day to break even this year, assuming 500 students are on board. Obviously, BC is not charging this amount of money. This year, assuming 500 students on board, BC will lose approximately \$200,000. Though this does not seem like good business, last year at this time it did (I was involved with that negotiation as well). No one could predict the cost increases associated with primary food items. In any event, in light of the above reasons, next year's board rate has been set at \$6.00 for lunch, \$7.00 for dinner. In a meeting with Jim Minges and Jeanne Noda where these rates were presented, Mr. Minges brought up a report by an independent research group showing the average cost of board plans to be higher yet. They wanted this explanatory article. So, here it is.

Upon presentation to various groups, the question has been raised if there was anything that could be changed to bring about a decrease in this rate. Some suggestions were brought up. One was not to continue buying USDA Choice meats, but rather use the lesser grades that other food services use. This was generally met with resounding NO's. Another suggestion was to change the off-campus housing board plan to eliminate the "Completely Off Board" option.

Although this would reduce the cost, it is generally considered a great political and public relations faux pas by the administration as well as the students. A third option, which the IHC has taken interest in, is to reduce BC's overhead. I'm not certain how many people realize this, but BC pays rent to serve us out of Chandler. BC also pays for all utilities and standard maintenance. This is highly non-standard. The norm for a food service is to pay a certain percentage commission (5-10%) of its revenue. Rent, etc. is not a normal expense of an outside food service at most colleges. For example, last year BC paid over \$50,000 to Physical Plant alone. This cost, of course, is reflected back onto our board rates. The students are essentially not only paying BC to feed us, but we are paying Caltech to provide him with the space to do so. The IHC has stated that they will look into alleviating this added cost, which would in turn result in a lower board rate. For more information on those proceedings, nag your respective house presidents, not your food reps.

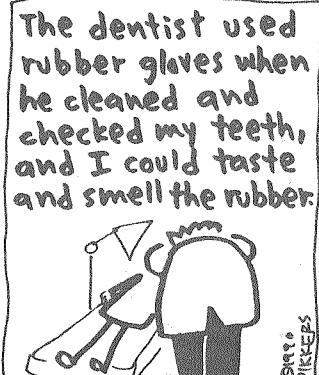
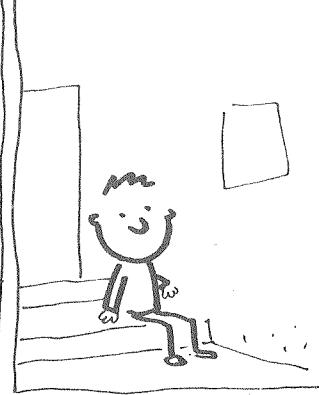
Well, there is in a rather large nutshell. If you have any questions feel free to contact your house food reps, who — if they were in attendance and were paying attention — have been briefed on the stuff you just read. Also, you can ask me questions if you happen to see me.

Jim's Journal

by Jim

I called to make an appointment with a dentist today.

They said they had an opening tomorrow.



Jim's Journal

by Jim

by Jim

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## The Inside World

Inside Worlds have been rated U: For undergraduate audiences only. They may be offensive to some people.

This Week's Inside World was written by:

Dabney: Robert Hanna  
Ricketts1: Joe Dadek  
Ricketts2: Dan Dilling  
222 Chester: Asim Mughal

Blacker	25	18	1	0	5	0	2	0	8
Dabney	38	18	2	0	1	1	1	6	
Fleming	20	18	0	0	3	0	0	3	
Lloyd	27	13	0	3	3	0	0	8	
Page	15	18	0	1	4	0	0	5	
Ruddock	33	12	0	0	4	0	0	4	
Ricketts	23	25	3	2	2	2	3	2	14

### Dabney

Thank you, Rob, for the wonderful introduction last week.

I was taking the AMa 95 midterm when the following thought occurred to me. I am fucking tired of reading the most lame and dishonorable Dabney House Inside Worlds, written with lack of forethought and good taste. Actually, some of the writers are pretty greasy characters. Guys, why don't you get it together, instead of worrying who is screwing somebody else. It worked for Dave Edwards. Dave, no offense, but you ain't got it no more. So the next question is how can one write something interesting and yet sexual. Why, write about the asexuals of Dabney. I am doing well puffin' on their cancer sticks that make my dick shrivel up. Yak. I also attend the Asexuals Anonymous meetings held regularly in Alley 5. Experienced counselors take the approach of slimming every female that lives here. They also stress the disgusting aspects of coitus. Tracy says that penis callouses make tough men.

So boys and girls, no more fun and games in Dabney. The courtyard looks so clean, I feel bad spittin' in it. And man, the RA's are so nice to everyone, well with the exception of some unmentionables, that I sometimes wonder who is holding up the "stick". Mosh has made his point. Dabney is gonna change for better or for worse. Yap, we're gonna e just like the average tobacco che-win', bolch-after-dinner, red-white-and-blue, white America. Clean and fucken' sorry. No fuckin'. Actually the Honor System is kind of Kommie.

Still I really miss some of my friends in exile. Few have returned like the wretched soldiers. So it really pissed me off, when people take advantage of others by making them sign contracts that take their rights away. I guess no one has to sign the Housing Contract if he doesn't want to. He can just sleep on a bench, not in the lounge. All in all, life here is becoming normalized and mainstream. Long hair is out, earrings are in. No more drugs nor lube behavior. If you can't see problems they don't exist. Works well in the Soviet Union.

I really did kill the fly on the ceiling with the force of procreative liquid.

On closing, I really hope this IW will not offend anyone too much. I hope even more that I will remain on campus even after its publication. This IW reflects my views only.

Please recycle.

-Alex Dukhovny

### Ricketts1

[Well, ButtStar rides again. This lame program just ate another of my Inside Worlds, so you'll all just have to dream about how amazing it really was.]

Welcome to the Ricketts House Inside World (RHIS). This week we will actually talk about what goes on around here.

Last Friday's dHi/dt got a big bonus awarded from the attendees. The chocolate fondu was most excellent, and the tea was quite flavorful. This event provided ample evidence that Alums are good things to have around.

BDR got mixed reviews. I liked the bread. Another person who stayed longer said the band was cheesy but the food was good. Someone else said it was stupid. Call this one on your own.

RA! RA! RA! Our Ibleep's are the biggest! I hope you all didn't miss you opportunity to attend the RA interviews this week. You're going to be living with some of these people next year, so you should make certain you have some say in it.

This is the part of the RHIS where we dance! Club Ricketts II: Dieter's Dance Party is tonight in the Ricketts Library! The DJ's are the whirling ninja Psycho duo of Leopold and Stu (Guido). All babes on campus are invited. Don't worry, I'll be in San Francisco so you're safe.

As if that weren't enough excitement already, Saturday is the Screwdriver Orgy. No doo plate in Snatch is safe! Check your brain in Herc and prepare to relax.

Senior Profile: S&M. Satomian Meera is a bizarre dual entity living in Snake. Part EE, part Mathematician, this is one confused creature. Its love slave, Jampkins, once wielded absolute authority over another house, but now lives a life

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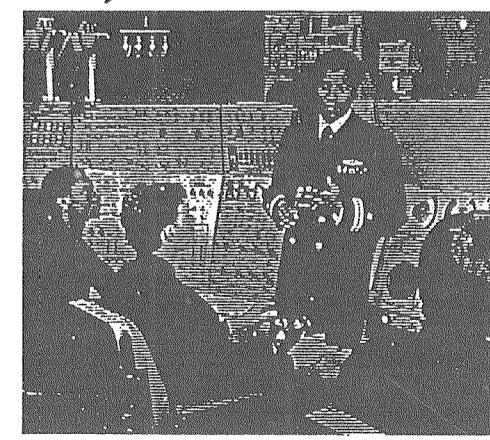
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## The California Tech

## The Inside World

of obscurity and pleasure under the domination of S&M. It is also known to emit an annoying, high-pitched sound when amused, a sound which may last up to ten minutes. Observe caution when around this being. I can't think of any good furniture this week, so I'll have a big Rude/Slander next week (if I feel like it).

Ditch Day's Tomorrow Frosh!

- The Physics Messiah

### Ricketts2

Our Story: Though Guru Kenobi vanished in a puff of logic, the Molybdenum Phallus escaped the Dread Lab with her precious bodily fluids intact. Now at a hidden room somewhere in the SAC, the students flick in their attack plan. The student leader was Spudboy, defender of frosh and champion of Ricketts dining. As always, at his side, was "The Master of Idiom", a mystic Blushman. They had become the head honchos after undergoing acid torture in the dungeons of Prince Gwoho, and had the "lobotomized" look prove it. Spudboy stood tall and peered all around... he could hardly help it. "The Dread Lab's outer defenses are not tight enough to stop a small one lobe frosh, with the stunt brains you should be able to reach the Lab without getting flamed." "Pardon me for asking, sir," asked a Lloyd, "but what good are stunt brains going to be against that?" "Thanks to the readouts obtained by Princess Leah, we've found a weakness, but it will require you to fly along an energy trough, past the laser towers, force barriers, right at the first star and straight on 'till morning. Your target is a small exhaustion port about two Dick Greysons wide. A direct hit will penetrate the Requirement and cause spontaneous Decompression. The port is roll-shielded so you'll have to use protonic game hens." "That's impossible," I said, "I used to bullseye Chad with my LN2 back home, he's probably a Dick." Spudboy dismissed us to ready our heads. I booted up Mac2D2, loading his Chem files. "You sure you don't want something without mice?" asked a technician. "Nah, I like all the little cube bars and window changes and..." After my shit was together, I went to say goodbye to Hands, the pilot of the Molybdenum Phallus. "You could really help, Hands. Come on, will you? They could use and abuse you." "Tempting, kid, but attacking that thing ain't my idea of trolling... more like flameout." "Well, you take care of yourself, Hands, I guess that's what you're best at, isn't it?" "Yeah, it is," said Hands, stroking the Phallus under him. "Hey Duke," he said, broken from reverie, "may the Farce be with you." Thanks bunches. Before we knew it, we had hyperspaced to 'Avin where the Lab was moving in for the End O' Term. We heard a voice inside our heads, "The term will end in ten minutes." It was Echo Woman, she was the student's communications officer. She went on "According to the Mechanical Universe, you will be unable to bank and roll because the forces of..." "Shutup, bitch," came the eloquent Phys Bud response. Spudboy checked us in. "Xerxes standing by, Simmons standing by, Captain Kishka standing by, Bear Barievich Bearishnikov standing by, Pete standing by, Yoman Smith standing by." "Duke standing by," I said. "Lock brain in 'offensive' position." "Look at the size of that thing, it's so BIG. Get it away from me, it scares me!" "Keep the spasms down, Smith." As we rolled into our attack, the towers on the surface blazed away at us. Keeping low, I shot the towers, which glowed yellow; that made it easy, of course. We cruised around on the surface awhile, shooting stuff, when I heard a voice inside my head, "Use the Farce, avoid catwalks, shoot fireballs." It sounded like Guru. I knew we had to be coming up on the trench. As soon as we slipped in, all the firing stopped. Echo Woman said, "The term will end in three minutes. Now, the Lab has launched Daihatsu-Ion-Energized twin-lobe brains, you'll have to destroy them head-to-head." As we streaked down the trench, avoiding catwalks, Simmons began to chant. It sounded like, "Almost there, almost there." He switched on his targeting computer. "Almost there," he yelled, as he prepared to penetrate and score. His target was open and waiting. "ALMOST THERE," he screamed in delight. Then a dark DEI with bent wings blasted Simmons, who exploded and became a cheese maker in Switzerland. "Stay on target," I said to Smith, because he was having a cow in the cockpit. "MOO," he said, and we all flew behind him, knowing that he was doomed. The dark DEI blasted him seconds after he began to lactate. Having had enough of this, I said, "We're going in full coffee, that ought to keep those DEIs off. Pete, cover me. You know, Duke some decaffeinated brands are just as..." "There's no time for that now. You just watch for those Chembrains." As I flew down the trench, my wingmates were slowly picked off by the nasty DEIs and my TITF computer was looking pretty useless, so I switched it off, and did my run by hand. As the DEI came up my tail, as they are wont to do, I felt sure I was raped. But a spew of fire blew the DEI hopelessly off course, it was the Molybdenum Phallus, just in time. Hands said, "Come on kid, let's blow the thing and go home." Time for that after the term," I said. Then I could see that little leetle exhaust port, and I thought, "Just like Badger's Clubhouse back home." I blew a raspberry, closed my eyes, and threw the protonic game hen. Everything fell down GOOM! Pretty lights and colors swirling and whirling around, fire and heat, explosions... cool. Awe returned to the SAC, where Hands and I were Awarded Bonuses, and I turned out to be a real Scurve after all. T H E N D.

### 222 S. Chester Ave.

222 S. Chester, an old, long forgotten unaffiliated Caltech house known to only those who really want to know where it is... Whenever someone says, "oh he lives at Chester" everyone thinks of 150 S. Chester... 222 is ignored politely. Why? What have we done to deserve this?

Now don't tell you me you didn't know 222 is closer to campus than 150! We are not all alone out here. To keep the ties we formed a multi-cultural, executive council consisting of one representative from 150 S. Chester, Azeem. One representative at large from on-campus housing, Imran and I (representing 222). The council seeks out avenues to enhance bi-lateral ties regarding social matters. The council meets on regular basis, not in Milikan, not in Steele, not in the health center, not even in SAC but at a carefully chosen off-campus location, Premier Night-Club. The probability of seeing the council in session by the third pillar from the left of dance floor at 1:00 am any given Saturday night is very high. We carefully look at the possibilities and opportunities the life has to offer once we get out of this place (Caltech). If one of us gets a sudden urge to go up to an "opportunity" the others are quick to remind that one can't leave till the council adjourns which is usually in half an hour. To look from another angle on the whole matter the council meeting was moved to a "garden" in Hollywood one random Friday night. While a rather very serious matter was being discussed someone intruded... "Hi, I'm Maria" said someone. We looked offensively in that direction, that someone somehow seemed familiar. "I have seen you at Premier," claimed someone, extending hand for hand-shake. "Well?" said I. "Look, I had my hair like this" she brushed her hair on one side. "Aaaaah" said we three at the same time, adding out of nowhere "yes, we have seen you there too." Looking at our upset faces, she decided to bail out and not disturb us anymore. "I'll be at Premier, Wed, see you there, bye!" with another round of hand-shaking. We started concentrating and discussing other opportunities. We were about to come to an agreement on a real crucial matter when suddenly an opportunity knocked on Azeem's shoulder and "dragged" him to the dance floor while me and Imran were biffled with the sudden development. Azeem returned later with a big smile on his face. Now he couldn't stop us from taking our chances, meeting was adjourned till further notice. For future, it was decided not to convene disruptive places like "gardens" anymore. We would like to invite faculty & administration to our lively meetings if anyone is interested, anyone? hello? oh well...

Wondering how you know you are at 222 S. Chester? Easy, as you drive in you are greeted with a nice old bump right as you enter the drive way... when coming back from a long trip you get a nice feeling reminding you that you are home. Aaaah... (sigh of relief on coming home)

Things have changed at 222 rather radically over last two weeks. It was never like this before. The playful, lively atmosphere is now substituted with peace and calm. Everyone is depressed, aren't we all? Finals are coming, we will be graduating and leaving Caltech forever! (thank God!) What is there to be depressed about? Is everyone tired of listening to Kevin's whining? I certainly hope so. The good old days are gone. The days when Manda was alive. Who is Manda? It was my dear bunny, sniff sniff... The "Rabbit-a-bad" (The Rabbit Land) is empty now sniff sniff.

Now-a-days there is no noise in the living room. Kevin moved his TV to John's room, why? you want to know why? hmmmm!!! I freaked out watching the same news from 5:00pm to 4:00am !! or Cheers if the news wasn't on! I freaked out because I had no place to study in the whole house! (Not that I was going to study anyway). John moved his electric cooker out of the living room. Now we don't even know when and what he is cooking anything. John is happy he gets to watch all the TV he wants too. Here comes "speedy" looks like Lakers won something, oh yeah Lakers play basketball, sorry I'm not up on the sports that much. "Want to go to Wendy's" he says. It is a part of culture at 222 to go to Wendy's whenever Lakers win, otherwise we go to Pataya. Why "speedy" insists on going to Wendy's? Well, he says he likes their frosty and I know the real reason. "Live from the desk of Director Soap-Opera" Being a senior and about to be out of college real soon, he decided to play the field a little, he is seriously considering one cute hot babe who is usually seen around Wendy's. Speedy go for it!

Things started to change as early as the beginning of this quarter. Just when Kevin thought he was on top of his game to drop Physics 105. One day, Kevin was sleeping, time: 7:00am, one Mon morning, phone rang, rang & rang, Kevin listened to it. Counted till the magical number of 13, got up, picked up the phone and hung-up! Why? But unfortunately, the caller hung up before he could, what a pity! Okay, fine 90% of the calls are for me but once in a while others get a call too, sometimes. What can I do if no one calls them?! Ever tried calling 222, you will be lucky if you get thru, someone is on the phone all the time, that someone is computer dialed to CITnet 22 hrs a day! Hey don't look at me, I don't dial CITnet, do I? I wouldn't do such a thing, would I? heh heh

"Can I speak to Mughal, please?" the familiar Scottish accent heard of phone is not there any more even. Why? Don't you hate it when people don't leave a message on the answering machine. Especially, when they hear the answering machine go on, they hangup and call again, geezz.

Our play-boy etc collection is depleting rapidly. Who borrowed them? Please return them!! We have library of Play-boys! Want to know who the playmate was for Feb 1983? Ask our librarian, Kevin. This is only other thing he is good at other than whining (for hours). Kevin "terrified & shaken" once more! Our Ath director, speedy is again watching some Lakers game!! One can hear a running commentary coming from his room. John, the housekeeper, is still in the

room since I started writing this, that was about 26 hrs ago, maybe? John?? JOHN?? alive? ? well??? Do we care? don't know...

Guess what I get to be? House President, hehe heh heh... self-proclaimed and "rubber-stamped" by the others... Being the President, I get to run to the MOSH office every time we see some strange car parked in our spots. I don't know whose they might be... could it be... could it be OUR NEIGHBOURS!! Too bad, it's not happening anymore. Things used to be different we never used to care who parked in our parking spots, now we do!! Well we also care how our backyard looks like. It is inhabited, in the same condition today as it was when the settlers moved into California. You thought housing had enough budget to take care of lawns didn't you? You are wrong!

Did you know we have a super-automated microprocessor controlled air-conditioner in our living room. We all share it. We bought it for \$75 a year and a half ago. Kevin claims we sell it for \$85 now. (ha!) Anyone interested? Next day: "What Kevin? Air-conditioner is broken!!" It is still worth at least \$70!, the "reduced rate" yeah right! With temperature reaching 90F everywhere it was in mad mood that day when an idea struck my mind. "Hey, John want to fix the air-conditioner (A/C)?" I said in dismay. "Those things have capacitors in them," said all-knowing John. "I rather not mess with it", he continued. Hmm... so here folks, now you know what it is like to be a EE and a Senior. I must say by this time you rather feel scared of electrical things. You better not mess with them when you graduate even. Being only silly "half-techer" (3-2 transfer from a world renowned party-school) and having very little respect for those electrical things, I picked-up a hammer and a screw-driver and sat down to fix our beloved A/C. I just banged it once with the hammer and it was working again. You shouldn't be nice to these things, kick them and they know you are mad... so finally the cool-breeze is back at 222.

I never thought I would write for Inside World, but the sweeping changes at 222. Its conversion into a monastery, the rapid decline in civilization forced me to do so!! The good-old days are gone, it will never be the same, anymore, we won't be there !! in a month or so... sob\* bye now!

"Don't go away, stay tuned for more..."

- The House President

222 S. Chester Disclaimer: This is all pure fiction. Figment of my imagination. Any similarities to places, names, incidence are totally co-incidental. Don't flatter yourself in thinking I would spend my precious time writing about you. Of course, no one knows I wrote it, don't come to me, I will deny it! What the heck, I don't even know if I exist!

Today Tony was watching Jeopardy and eating some hot dogs.



Mr. Peterson was standing on her hind legs in front of Tony.

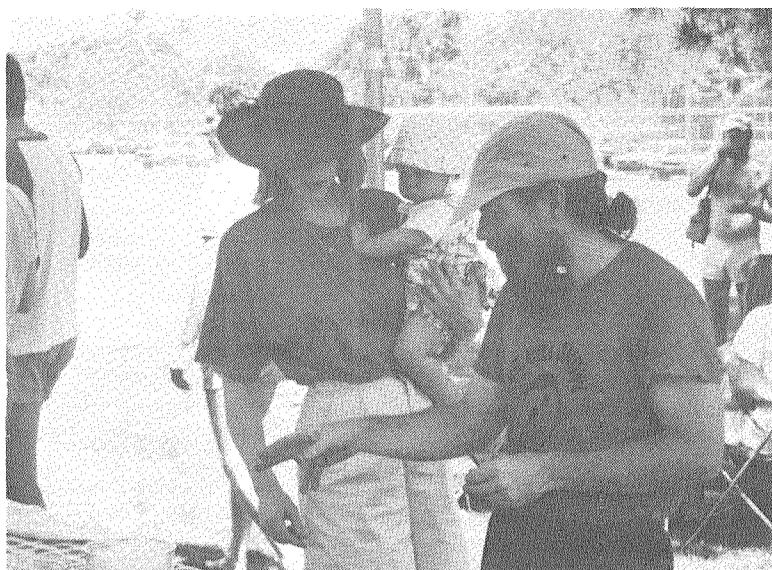


He put some ketchup on his finger and Mr. Peterson licked it off.

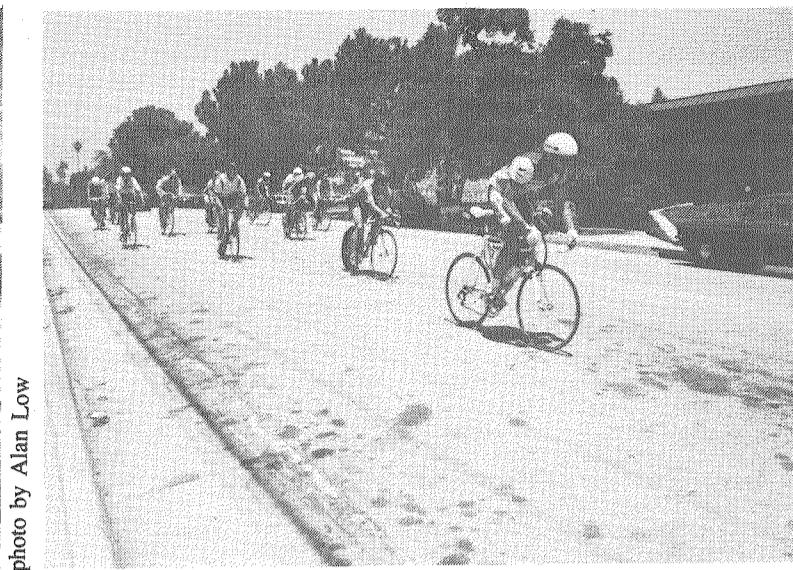


"Hey" Tony yelled, "Mr. Peterson likes ketchup. I can't believe this crazy cat."

S



Louis Wilde and his daughter check out the food at Sports Day (not B.C.!)



The triathlon cyclists take off.

photo by Alan Low

P

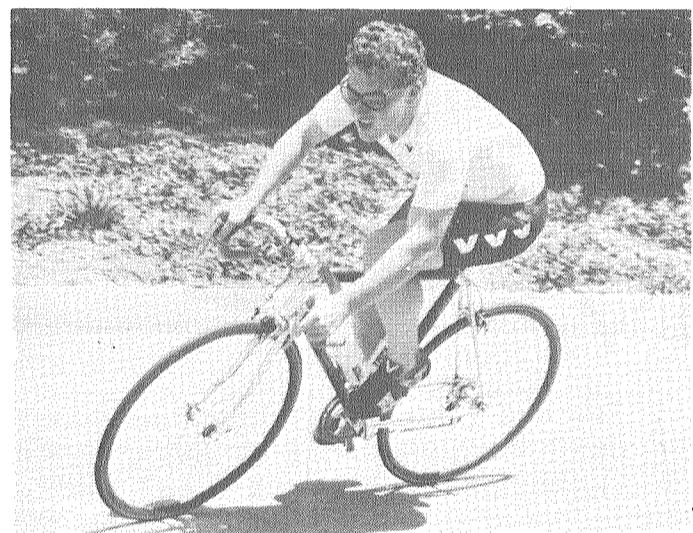


photo by Paul Socolow

Bob Maher prepares for a tough turn in the triathlon.

O

R



A tough volleyball match.

photo by Lei Chen

T

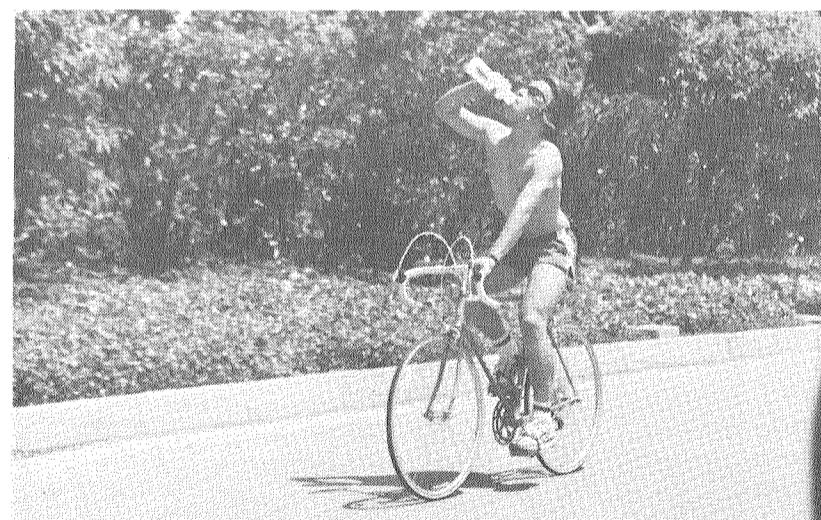


photo by Craig Sosin

Dave Kim takes a sip of water on the ride.

S

D A Y

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photo by Craig Sosin

## KELROF: 24 Hours of ~~Fun~~ Fun

By Dave Kim

"THAT WHICH DOES NOT KILL ME MAKES ME STRONGER."

This quote, from the writings of Friedrich Nietzsche, a German philosopher who lived a pretty bitter life, has well suited for many years a traditional Caltech event. This event is back again and it is the 12th annual Kellogg's Eighth Light Regiment on Foot.

Called KELROF for short, it is a 24-hr relay foot race run by teams of up to 10 people. Members of each team take turns running or in some other way perambulating for a mile, then hand off a baton to the next person on the team's list. The baton and the running order then cycle through all members of the team until 24 hours have passed,

or, more sadly, there are no runners left. Teams try to achieve the longest collective distance at the end of the grueling day-long period.

All sorts of intense, strange, and interesting teams have competed, including an all-frosh X-country team, a 3-woman team, a perennial Page team using a traditional squid as a baton, and the slightly psychotic "Beer KELROF". I have even read of "man, woman, dog" teams.

This year KELROF will start bright and early at 9AM Saturday, May 19. It will be held at the Caltech track and many runners, walkers, and masochistic limpers are expected. If you have a team of any sort or don't have a team but wish to run anyway, please contact me at 578-9370.

I will make information packets available within a day or so and there will be another article next week with miscellaneous information and inspirational quotes. If you are planning to spectate and would like to help out with timing, replenishing drinks, and other helpful things, please contact me; a little extra help will go a long way to make KELROF a nice event. Well, as nice as it can be, considering that its main claim to fame is that it comes close to killing you. Speaking of which, if you want to do it, make sure you are in reasonably good health. Get some sleep the few nights before, talk to people, check the batteries in your pacemaker, etc.

Questions/info/teams? Call Dave Kim at 578-9370 and keep on running!

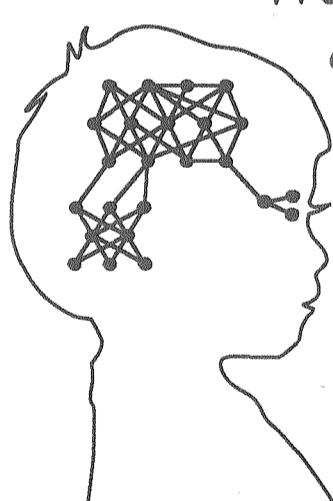


photo by Craig Sosin

photo by Dave Kim

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# The California Tech Triathlon

from page 12

at his lap counters, took off his running shorts, and talked to spectators before completing his swim.

Chris Campo and John Pham hit the water next within seconds of each other. Initially, Campo had trouble adjusting his goggles and fell a lap behind Pham.

The battle for second place was tightening up as Sauder reached the pool with Pham having completed 11 laps and Campo at 9 laps. Diving in, Sauder settled into a pace almost twice as fast as anything Pham and Campo were able to maintain.

Reduced to backstroke, Campo was the first to succumb to the lifeguard's charge. Realizing the challenge, Pham found another gear and powered home the final laps with his finest freestyle, completing the 20 laps with Sauder at 18 laps, and Campo at 16. Sauder, finishing next, lamented the fact that the swim was not 750 meters as originally planned, knowing that Pham would have been meat for his animal swim. Campo appeared just glad to finish.

Strong performances were turned in by the Fleming Relay Team of Sam Clark, Scott Kister, and Dave Geraghty (second relay), the Faculty Relay Team (third relay) and the individual performances of David Kim (fifth place), Jason MacLeod (sixth place), and the only female undergrad participant Margi Pollack, soldiering on with her mountain bike.

Many thanks go to all the traffic marshals, spectators, and the people who manned the hose on the track. As a testament to the toughness of the event, several competitors had to drop out, and individual winner Craig Reynolds had to be treated at the hospital for heat exhaustion.

Members of the Caltech Bi/Triathlon Club, Club Homeboy, are competing at the Malibu/Bikesport Biathlon (5K/25K/5K) on Sunday, May 13. Any undergrads interested in competing with partial ASCIT reimbursement of entry fees contact Chris Campo (440-0826).

Attention tennis fans! Aching for more thrills from Caltech's studly men's team? Always wanted to see your most "popular" professors get utterly destroyed and demolished? Here's your chance to see it all!

The Buff, Rough and Tough Men's Tennis Machine vs. Caltech's Mediocre Faculty Team! Saturday, May 12, at 1pm on the tennis courts.

## Scheduled to appear:

Study Men:  
Dan "Bang-Bang" Pang  
Hemant "He-Man" Keny  
Bappa "Just Do It" Mukherji  
Jimmy "The Swinger" Ng

Wimpy Faculty:  
Harry "Playmate" Gray  
David "Physiques" Goodstein  
Mike "Thriller" Jackson

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Submit announcements for What Goes On forms available outside the Tech office (SAC room 40A) and in the copy/mail room (SAC room 37), or use a plain piece of paper. Send announcements to 40-58, or put them in the IN box outside the Tech office. Indicate the date(s) the announcement must run. Announcements for the current issue must be received by 5 pm Tuesday and should be shorter than 75 words. Announcements will be published as space becomes available and will be chosen according to size and interest to the Caltech community. Announcements for commercial events unrelated to Caltech will not be published.

### Play Bridge

Play bridge at the Caltech Bridge Club this Monday. We meet every Monday at 7:15 pm at the Red Door Cafe in Chandler Dining Hall. No card fee, no membership fee, no partner needed. Undergrads, grads, faculty, etc. welcome.

### Quantum Flap-Doodle?

Dr. Murray Gell-Mann will be the speaker at the May 15 Southern California Skeptics talk in Beckman Auditorium. His topic will be "Quantum Mechanics and Flap-Doodle." Tickets are \$8.00. The talk will be at 8 pm. For information call (213) 283-9773.

### Online Schedule of Classes

The Caltech schedule of classes, as published by the Registrar's office, has been added to the online INFO system, accessible via CITnet. A write-up on using the INFO system is available from the CCO Consulting Office, 162 Jorgensen.

### Off-Campus Folkdancing

Join the Pasadena Folkdance Co-op every Friday evening at 7:30 pm at Throop Unitarian Church in Pasadena at the corner of Del Mar and Los Robles. The club offers beginning instruction at 7:45 pm and intermediate at 8:30 pm. Each month the community is invited to participate in line, set and couple dances from all over the world. A \$2.00 contribution is requested of non-members.

### Let's Do Lunch!

The Caltech Y along with the Caltech Service League have allocated monies (lots of) to encourage student/faculty interaction. Specifically, students can receive \$25 to defray the cost of a lunch, dinner or some cultural event with a faculty member. All events must be pre-approved through Brian Redin at the Caltech Y.

### Video Artists

Students and professionals are invited to present their work at Pasadena's first annual *Videofair* to be held Saturday, May 19 at Pasadena City College's Forum. All submissions should be broadcast quality and indicate a reasonable command of the medium. Student videos and works-in-progress are also welcome.

Interested parties may obtain information by calling (818) 793-0760. The event is being produced by The Light-Bringer Project, a local non-profit arts corporation.

### Arts & Science Fair

Lanae Bach needs Caltech students to help volunteer for the Kids Arts & Science Fair on Saturday, June 9 from 11:00 am to 2:00 pm at Tournament Park. If interested, call her at 792-1513.

### Beginner's Windsurfing Clinic

"Sailblazers", Caltech's Windsurfing Club, will teach you how to sail a sailing board in just one day! Open to all members of the Caltech community, the lessons are held in Long Beach on Saturdays throughout the spring and summer. Everybody can do it, so sign up at the Y for the next session available. For more information contact x6237 (Jakov) or x4264 (Branislav).

### SSSP Tutors Needed!

The Summer Secondary School Science Program will be needing tutors from June 25th through August 9, 1990. The hours are from 9 am to 3:30 pm, Monday through Thursday. Needed are: 4 tutors teaching molecular biology, and 4 teaching chemistry. First preference is seniors, followed by juniors and then sophomores. Applicants may call x6207 or x6208, or visit Lee Browne's office at 107 Winnett Center.

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# what goes on

### Free Money

In its annual display of generosity, the Caltech Student Investment Fund will be giving over \$4,000 to Caltech clubs and organizations. Money is for capital improvements only. Please submit one page proposals to: SIF Disbursements, 142-58. For more info, call 568-9855. Proposals must be RECEIVED no later than 5:00 May 17.

### Fishing For Ideas

*The Fishline*, a newsletter serving all Christians of the Caltech community, needs material! If you have any ideas, upcoming events, or articles that you would like to share, please submit them (Mac format, if possible) to *The Fishline*, 126-58. Also welcome are announcement by neighborhood churches, Christian groups and clubs, as well as mailing list additions. Contact Mike Nassir (578-9833) for more information.

### Still Horsing Around

The Cowtech Equestrian Team is still around and showing horse videos. Come join us each Monday from noon to 1 pm in rm. 19 Baxter (bring your own lunch). If you have some horse type video (or 16mm film) you would like to show let us know. Questions, comments, etc., call Liz at x4515 or Victoria at x3828.

### Ditch The Heaters

Students who have checked out space heaters from the Housing Office should return those to the Housing Office as soon as possible.

### Summer Work-Study

Information and applications for 1990 Summer college work-study are available in the Financial Aid office. If you are interested in summer college work-study, please submit the required application as soon as possible, but no later than May 18, 1990. Your financial aid application must be complete by May 18 to be considered. Eligibility determination will be announced as completed applications are reviewed.

### Genome Initiative Talk

Sociology Professor Dorothy Nelkin of New York University will be speaking in Baxter Lecture Hall on Wednesday, May 16 on the subject of "The Social Power of Genetic Information." This talk is part of the seminar series on Issues in Ethics and Policy Arising from the Human Genome Initiative. The talk will begin at 4:00 pm, and refreshments will be served.

### Summer Housing!

Sign-ups for Summer Housing—On Campus, Affiliated—will be May 16 at 5:00 pm. Off-campus, unaffiliated will have sign-ups on May 22 at 5:00 pm. Contracts are due May 16th at 5:00 pm. Call the MOSH office if you have any questions.

### Win! Win! Win! \$500!!!

YES! YOU can win \$500 if you are one of the three lucky people who can complete the following qualifications: 1) Submit an essay (approx. 500 words) to the Master's Office, describing an idea for your social or cultural enrichment. 2) Submit it by May 14 (Monday) 3) Be either a freshman, sophomore or junior 4) Cross your fingers and wait until later that week for the good news!

### SEDS Poster & Button Sale

The Students for the Exploration and Development of Space will be holding the first Caltech Poster and Button Sale on Monday, May 14 and Tuesday, May 15 from 9:00 am to 5:00 pm at the Winnett Student Center. A variety of posters, buttons, t-shirts, patches, bumper stickers and other paraphernalia related to space, science fiction, fantasy, and adventure will be on sale.

### German Film Series

There will be a showing of *Fruhlings-sinfonie* (1983) on Wednesday, May 16 at 7:30 pm in Baxter Lecture Hall. Directed by Peter Schamoni, starring Nastassja Kinski, Herbert Gronemeyer, Rolf Hoppe, Andre Heller, and Bernard Wicki. All are invited.

### Caltech International Day '90

1990's Caltech International Day will be on June 1st (Friday). Students from various countries will display Caltech's diverse ethnicity via art displays, dances, food, etc. Live entertainment and the quality of food has made this day a great success for the last two years.

Representatives from clubs or individuals are invited to the very important last organizational meeting on May 17 (Thursday) in Rm. 13 SAC at 8:00 pm. For more information, call: Amit Lal—x3968, or the Caltech Y—x6163.

### Tickets Tickets Tickets

The Caltech Y currently has tickets for the following: Movies—Mann (\$3.50), Pacific (\$3.50), UA (\$4.00); Renaissance Pleasure Faire—\$10.50 (reg. \$14.50); Cabaret musical at Keck Theatre, Occidental College, Sunday 5/20 and Saturday 5/26 at 7:30 pm, \$6.00 (reg. \$10.00).

### Archbishop Desmond Tutu

Tuesday, May 22 at 11:00 am on the Winnett Patio, Archbishop Desmond Tutu will be speaking on "Present Relations in South Africa." All are welcomed to this free event.

### Feminism and Motherhood

The Caltech Women's Club and the Organization for Women at Caltech (OWC) will cosponsor a public meeting given by Dr. Ruth Schwartz Cowan, Sherman Fairchild Distinguished Scholar. She will speak on "Feminists Contemplating the Present and Future of Motherhood," on Wednesday, May 16 from 12-1 pm in Winnett Lounge. Bring a brown bag lunch—brownies will be provided.

### Interested in Sailing?

You too can use the Caltech sailboats. Find out how by joining the Caltech Sailing Club. Contact Axel or Martin at (818) 568-9168. Open to students, faculty and staff.

### Don Shepard Essay Contest

The Don Shepard Essay Award contest is open to all freshmen, sophomores, and juniors. Three \$500 prizes will be awarded.

To qualify for one of the prizes you must submit an essay (around 500 words) types, or neatly and legibly written, describing a program for your social and cultural enrichment, whether it be pursuing a new hobby, taking lessons, traveling or sightseeing.

The contest will run until May 14, 1990 and you may bring your essay to the Master's Office until that time. Winners will be announced the week of May 14.

### Barbershop Singing

If you enjoy singing harmony, you will love singing with the Barbershoppers. The San Gabriel Chapter of the Society for the Preservation and Encouragement of Barbershop Quartet Singing in America, Inc. meets each Monday at 7:30 pm in the Adult Recreation Center, 324 S. Mission Drive, San Gabriel. For additional information, please call Bob Newton at (818) 446-3424.

### Renaissance Pleasure Faire

Tickets are \$10.50 (reg. \$14.50) at the Caltech Y. The Y also has maps for directions. The Faire goes on weekends until June 10, 1990.

### Folk Dancing On Campus

The Caltech Folk Dancers invite you to come and join us for folk dancing on Tuesday nights at Dabney Hall Lounge. Dances are taught from 7:30 pm to 9:00 pm, with dancing from 9:00 until 11:30 or midnight. This month's teaching will emphasize Greek dances, with Louise Billmont instructing.

### Fantasy or Reality?

Tom DeLuca, 1989's Campus Entertainer of the Year, will perform comedy, magic, and spellbind you with "Imaginism" (i.e. he will hypnotize you), Monday, May 21, 8:00 to 10:00 pm in Ramo Auditorium. The cost is free!! Sponsored by the Y, ASCIT, MOSH and the Dean's Office.

### Ride Board

Need a ride home after exams? Want to go to San Francisco for the weekend? Feel bad about driving alone? Want to save gas and help others as well? Now you can, with Caltech's new ride board, set up by the Caltech Environmental Task Force and the Caltech Y. Come by the Board, just outside the Y Office on the second floor of Winnett, and use the provided cards to offer a ride or look for a ride. Save money, hassle, time and gas! Reduce smog—use the ride board!

### Ongoing Relaxation Hour

For those students who have attended the Relaxation Workshop, or have learned basic techniques elsewhere, an ongoing group has been started where you can continue to use these methods—and simply have a place to relax at least once a week. Each session will involve some basic relaxation technique, supplemented by audio and video tapes and basic meditation techniques.

The sessions occur on Mondays from 5:00 to 6:00 pm. If interested, please contact the Counseling Services at 356-8331.

# money

### Scholarship Listings

The Financial Aid Office has applications and/or information on the following scholarships. All qualified students are encouraged to apply. The office is located at 515 S. Wilson, 2nd floor, phone x6280.

California Council of the Blind is offering a number of awards to applicants who will enter or continue studies at an accredited college or university in either undergraduate or graduate status. Awards will be granted on the basis of academic scholarship and other factors including financial need. Deadline for application, transcripts and records is June 1, 1990.

The Society of Women Engineers announce their 1990-91 Freshman and Reentry Scholarship Program for all qualified women students who have been accepted into the engineering curriculum. Deadline for applications and supportive materials is May 15, 1990.

The Desk and Derrick Club is offering scholarships to residents of Kern County (but may be attending outside Kern County) pursuing higher education in a petroleum or allied industry-related field. Deadline for submitting an application is August 1, 1990.

Automotive Hall of Fame is offering scholarships for the Outstanding Scholars and Hall of Fame Resume Bank programs and a scholarship from the Hall of Fame's Automotive Educational Fund. Deadline for submitting a complete application is May 31, 1990.

Orville Redenbacher's Second Start Scholarship Program is for students 30 years old or older at the time of application, be enrolled in either an associate, bachelor or graduate degree program at an accredited college or university and can be either full-time or part-time students. Deadline for application is September 1, 1990.

### Ebell of Los Angeles Scholarships

The Ebell of Los Angeles is offering undergraduate scholarships for the 90-91 school year. The amount of the scholarship is \$3,000 per year paid in monthly checks, September through June. In order to apply, students must be U.S. citizens, L.A. county residents, have at least a 3.25 GPA, and be attending an approved college in Los Angeles county. For more specific information on requirements and application materials contact the Financial Aid Office. All applications and materials are due in the Financial Aid Office by 5:00 pm on May 18.

## LOWEST AIR FARES

Atlanta	\$

# Baseball Beats the Alums

by Ari Kaplan

Last article, I said that if you came to the Alumni game, you could see history being made. Well, if you were one of the few who showed, you did. For the first time in I believe the history of Caltech, the team beat the Alumni. We fought back hard from a 5 run deficit to win 8-7. In the last inning, the Alumni had a runner at 3rd, but failed to tie the game.

Last week, the Caltech Baseball season ended in an exciting series against Claremont, the first place team in the division. The L.A. Times had an article in it insulting the Beaver's abilities, but in the end we gave Claremont some competition. I still don't get it—why do these schools put barbed wire on the surrounding fence?

In the first game, we had perhaps one of the best played games this year. We were tied at 2 going into the 4th inning, but then lost it, 7-3. 16 Techers made it on base, but only 3 ended up scoring. The second and third games were played with equal aggressiveness, but we lost 8-2 and 9-0. We didn't fair that well against Occidental, but we did have some fun.

Ox got cow-tipped by nerdman, and a bulldozer strangely entered

## A New Press Box?

[OPR]—The Lon V. Smith Foundation has made a substantial gift to Caltech to support the Institute's athletic facilities, according to Caltech President Thomas E. Everhart. Much of the gift will be used to refurbish the bleachers and construct a press box at Caltech's Fox Stanton Track and Field facility.

"The Lon V. Smith Foundation's gift is exciting because it demonstrates a sensitive concern for our students," said Dr. Everhart. "We feel a great responsibility to provide physical activity for our talented Caltech students to enable them to use their abilities to the fullest. This gift is certainly a great boost for our drive to enhance our athletic program."

In 1986, the Lon V. Smith Foundation awarded Caltech support for the construction of an all-weather track and field facility, which was named after William Layton "Fox" Stanton, the Institute's athletic director from 1921 to 1942.

During his tenure at Caltech, "Fox" Stanton coached the football and track teams, both of which now

use the facility named after him. During his tenure, Caltech won Southern California Conference championships in 1930 and 1931. After his retirement in 1942, this tribute appeared in *The California Tech*: "In a school which does not pick men for athletic ability, he has formed championship teams. In a school where no credit is given for athletic work, where it must be carried entirely in addition to regular studies, he has developed outstanding football material."

"Fox" Stanton's son, Dr. W. Layton Stanton, is an alumnus of Caltech, where he was named to the All-American team (Honorable Mention) as a halfback.

Dr. Stanton, who earned his Ph.D. at Caltech in 1931, worked 35 years for Union Oil Company (now Unocal) before retiring in 1971 as director of exploration. He met the late Lon Smith in the oil business, and Dr. Stanton now serves as president of the Lon V. Smith Foundation, a charitable organization founded in 1951. He is also an active member of The Associates of Caltech, a major support group for the Institute.

## editorial

## Misuse of Athletic Funds

While I applaud the donation of money for athletic facilities improvements, there seem to be many better uses for a hundred thousand dollars than to refurbish the bleachers and construct a press box.

Two of the tennis courts are not lit at night. This is a waste of the courts during the peak hours of use, especially over the summer. Another possibility for improvement to the tennis courts is to put locks on the entrances. Many non-teachers use the courts and most students do not want to start a fight by asking them to leave. If the courts were on south master, this would alleviate the problem.

Another use for the money would be to have a fund to repair the track. The track was built from a one-time donation. There is no money set aside for its repair. Caltech has a policy of letting outsiders use the track at all times as a public relations tool with the

community. There are bubbles forming on the track, the high jump pad is worn down, and the outside lanes which joggers use, are very worn down. *Pasadena Weekly* voted the Caltech Track as the second best place to run in Pasadena behind the Arroyo Seco. Come on! This track is for Caltech. Soon we will have a dirt track again if this policy is kept up and no money is appropriated for its repair.

Caltech has been waiting for nearly thirty years for a multi-million dollar gift to build a second gym. This isn't going to happen. As a start, the second floor of the weight room should be finished. The weight room would be moved upstairs to a larger room, and the current weight room would be used for aerobics, karate, ballroom dancing, and other events to alleviate usage of the gym.

Racquetball courts are another part of this large master plan for the gym. These would probably

.440 OBA.

Marty O'Brien just had the coolest shades. Mike Salisbury will be missed at first, as will his leading 264 put-outs. Todd Schambesser had 5 RBI. John Stamm platooned at third, and pitched three innings of scoreless ball. Atul Suklikar had no errors, and adopted well from cricket. Geoff Wiersema, well, he got cow-tipped by the nerdman, and he became the only person to score while I was at the plate.

Peter Ying played at second, and we may have beaten Claremont if Pete wasn't on the DL. Well, of these people, seven will not return. I would like to wish all those seniors good luck, and thanks to Coach D'Auria and Ron Towles, and all the players for making this a great season for me. Wait 'till next year!

**Caltech Triathletes are Hot**

by Mark Lytle

The world shook this Sunday as the Caltech International Sports Day Triathlon kicked off in 100+ degree heat. The competition featured a race between individuals as well as a race between the relay teams. (The relay teams were, of course, for wimps who copped out of doing the triathlon solo.)

After doing battle for an hour, mostly with the heat, Craig Reynolds copped top honors in the individual race and the Page House Relay Team comprised of Bob Maher, Dan Flees and Barry Stipe finished first in the relay division.

The race was to be the first duel between Caltech's top triathletes. First place had been conceded to Craig Reynolds, professional triathlete and Caltech trainer, but the fight for second place was wide open.

Fresh off his strong performance in a recent biathlon, Chris Campo appeared to be the favorite, although his swimming has always been suspect. His major competition was John Pham and Ron Souder. Unknown factors were Mark Lytle, whose training had been sparse, and Andre Ohanessian, coming out of a yearlong retirement in the hottest triathlon of the year.

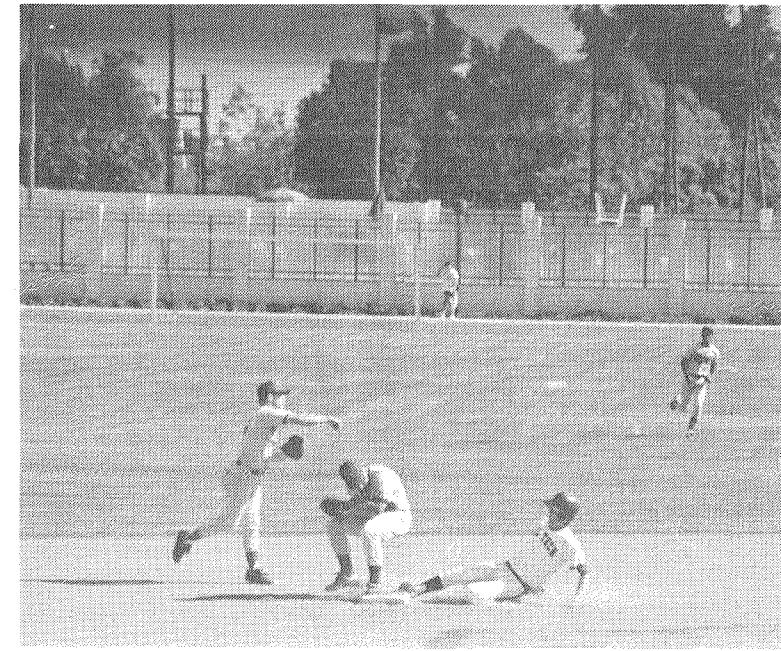
The race kicked off with an 11.5 mile cycle race through the twisty streets of San Marino. The course consisted of three grueling laps featuring "The Wall", known better as Shenandoah. Craig Reynolds, professional triathlete and Caltech trainer, shot to an early lead on the bike, while others just marvelled at his smoothness of his cycling.

Reynolds was pursued by Bob Maher, a relay team member who was apparently somewhat oblivious to the no-drafting rule. Reynolds dropped Maher on the third and final trip up Shenandoah and he completed the bike portion in just over 30 minutes. Maher came in as Reynolds was completing his transition, and so Maher's teammate Dan Flees began the run hot on his heels.

cost more than one hundred thousand, but perhaps the institute could help with the cost.

Effectively, there is no media coverage of Caltech's sport events. The bleachers are rarely used—only for a few football games and track meets. Even then, they aren't nearly filled. I am sure that the students and the rest of Caltech would prefer any of the above ideas to what is currently planned. If you feel strongly about this, please write a letter to the Athletic Department, 1-2. They are open to student opinion.

—Scott Kister  
editor



The baseball team ended their season against Claremont at home.

photo by Michelle Tseng

## Caltech Triathletes are Hot

Following closely behind the race leaders was a hotly contested battle between undergraduates John Pham and Chris Campo, and Caltech lifeguard Ron Souder. Pham, the strongest cyclist of the trio, knew he had to build a large lead on the bike and he hammered through the course in 33 minutes. Campo entered the transition area in 36:50 with Souder following closely behind him. The heat was beginning to take its toll with many of the participants reduced to a survivor's death march on the last loop.

The return of Lytle and Ohanessian to the multisport battleground was not to be as Lytle had an unusually poor bike ride finishing just ahead of Chris Campo, and then dropping out on the run. Ohanessian was faring little better after taking a more conservative pace on the bike and run, as he was forced to drop out during the swim due to cramps.

On the three mile run (12 laps), Flees quickly pulled out a one hundred yard lead on Reynolds, who was obviously tired from a tough biathlon that he had won the day before. Pham's deadly pace on the bike slowed him to a walking pace on the run. Pham walked the first lap taking in almost a full water bottle before beginning to run.

Campo and Souder sensing Pham's weakness began to cut into his almost two lap lead. Nearing the end of the run, Campo had made up his deficit on Pham, while Souder lagged, apparently confident in his ability to catch the two rockfishes in the pool.

Dan Flees, apparently running a lap short, was first to enter the pool area, where Barry Stipe swam the 500 meter final leg (20 laps), to seal the relay victory for the Page House Relay Team. Craig Reynolds was next to enter the pool, but in his own words, "Once I got in I didn't feel like swimming." Exhibiting a playful attitude, on various laps, he spit water

continued on page 11



John "The man with a plan, the speedo man, with the ultimate tan" Pham cools off in the 100 degree heat. Pham was the first student to finish the triathlon.

photo by Paul Socolow

## THE CALIFORNIA TECH

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