



Last Tech for the year is Friday, June 8.

THE CALIFORNIA TECH

THE END IS NEAR

Volume XCI, Number 29

Pasadena, California

June 1, 1990

International Day

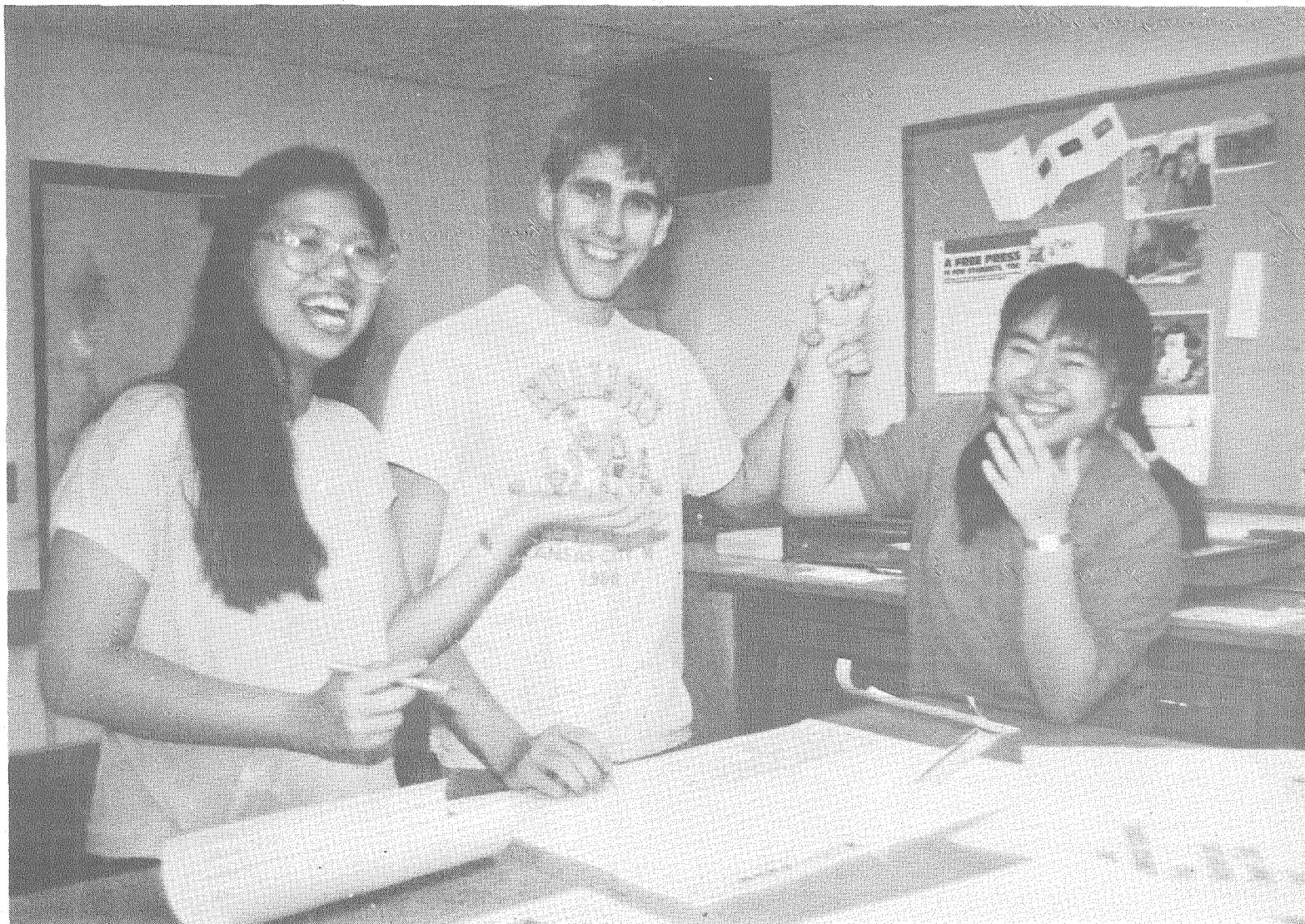
by Ali Mortazavi

International Day is back again this year. The annual event is designed to celebrate and display Caltech's diverse ethnic background. To this effect, stalls representing different cultures, ranging from Brazilian to Chinese to Greek will be installed to showcase the different cultures.

In addition to the students, the People To People, the United Nations (Association), and Sister Cities' stalls, plenty of entertainment will be present in the form of ethnic music and bands.

There will be six separate "events" scheduled between 5:30 and 9 PM. To cite a few, there will be a Chinese Dragon Dance for Caltech Students, a Korean Fan Dance, an "Armenian show", a Bulgarian group and an Indian Tabla/Dholak/Sitar group. There will also be games, shirts, stamps, etc... available for everyone to enjoy.

Last but not least, exotic "food samples" (for many, the highlight of the event) will be found on the stalls. Indeed, this will be an opportunity to get a break from the monotony of board meals and try Indian, Israeli, and Vietnamese food. All taken together, International Day should turn out to be one of the most exciting outdoor fairs held during this year.



The picture you have been waiting all year for is here. Its the new editors hard at work on the front page.

photo by Craig Sosin

Biologists Computer Literate

By Chris Dunn

Biologists opting for rides on the Human Genome billion dollar bandwagon may face the hazards of perfunctory research, unrewarded labor, and computer-literacy requirements.

These—and far graver issues—were addressed by Charles Cantor in his fatidic "mental exercise" at the Human Genome seminar last Wednesday in Baxter Lecture Hall.

Cantor suggested robotics in biology as one spin-off of the Genome Initiative, but his description of an inescapably slow and operose process evoked images of timeworn would-be researchers. He allayed that concern by admitting that short-term involvement by individual scientists is both likely and desirable. He hopes that six months to a year of genome work would provide useful experience to aid independent endeavors.

The prevailing system of reward through publishing, asserted Cantor, must be supplanted by something suitable to the humdrum results of genome mapping. Beyond being scientifically unexciting, the results are valueless unless complete. The last ten percent of the work on any particular section might require ninety percent of the time, leaving a researcher with nearly complete but unpublishable information most of the time.

Regarding computer-literacy Cantor stated resolutely, "Biologists will become more than computer literate; they will be dependent on computers." The computer industry has much to

gain. Companies like IBM and Cray watch expectantly for solutions to what Cantor calls "generic" problems of large-scale storage and access.

The Human Genome Project, which Cantor believes to be mislabeled as much of the work will involve other species with human-related genes, will be a gold mine for biology. Half of the funds will be spent on "technique develop-

ment." Aside from the purely technological innovations there will be extensive cross-training in biology and instrumentation, hence the emphasis at Caltech on interdisciplinary research, especially at the Beckman Institute.

This was the last of the Human Genome seminars. Lee Hood and Dan Kevles are preparing transcripts to be published by Harvard University Press early next year.

CRIME AND INCIDENT BEAT

CRIME TIP: Computers are expensive and their theft is common. Protect the investment: acquire cables to secure all major components; other security devices are also available. As added protection, always lock rooms that contain unattended computers.

5/24 A student parked his bike on the south side of Kerckhoff with a chain and lock. When he returned, the bike had been stolen and the chain left behind. Value: \$150

5/24 A student left his bike parked outside of 348 S. Catalina. When he returned, the seat had been stolen. Value: \$35

5/25 An IBM computer was stolen from the West Bridge basement some time after 5/21. The room that it was in had been left unlocked so that a chemical spill could be ventilated. Value: \$5205

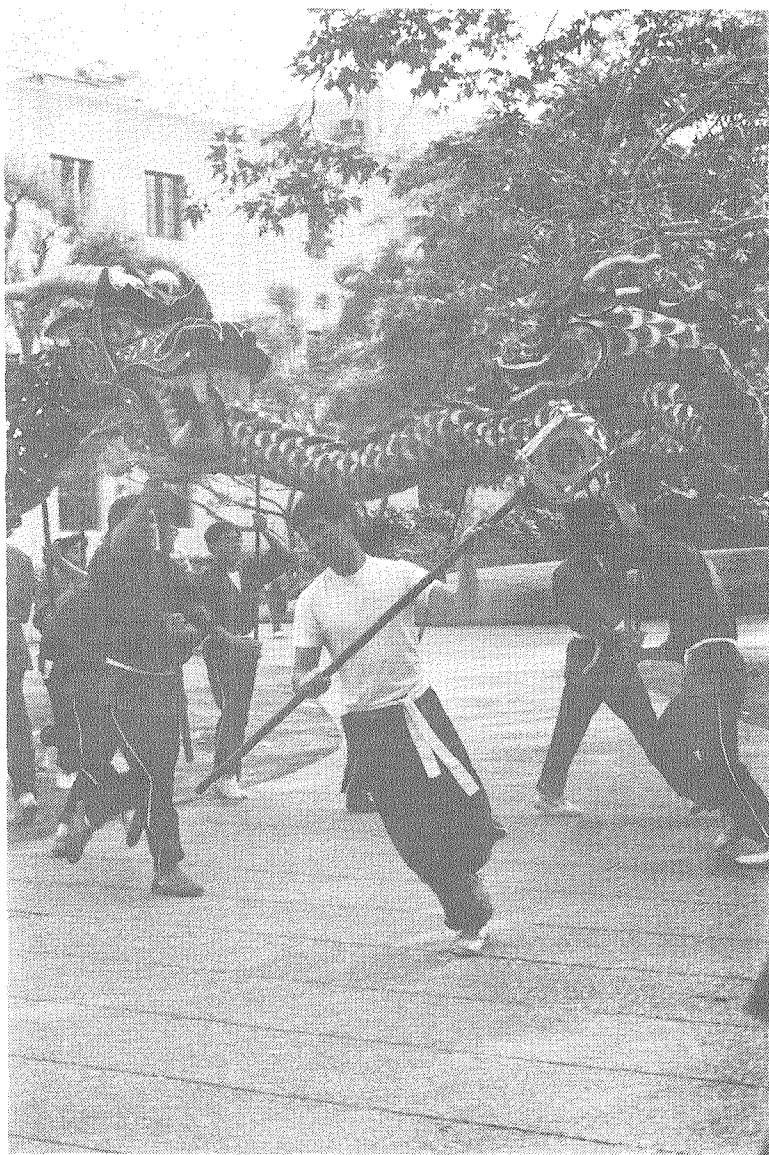
5/25 A white Toyota pick up truck belonging to a student was stolen on 5/24 or 5/25 from the West Wilson parking lot. The Pasadena police were notified. Value: \$3000

5/25 A student parked his bike outside of Milikian for two hours. When he returned, the bicycle's seat and carrying bag had been stolen. Value: \$30

5/27 At 7:11 p.m. a Caltech officer observed a 67-year-old man at the track. His pants and underwear were dropped to his ankles and was observed wrestling with a bench, attempting to upright himself, the bench or both. The officer informed the man of the Institute's standard policy regarding trespassers in front of a Pasadena police officer.

5/29 Fifteen cigarettes had been placed in a row near a window in Parsons-Gates. The cigarettes had been ignited and burned, causing charring.

Total dollar value stolen this week: \$8420



One of the performances at today's International Day.

photo by Michelle Tseng

INSIDE

Election Results and Upcoming Elections

page 2

Just Vote Yes for the Bylaw Changes

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Crew Today

page 12

Election Errata

	First vote	Runoff
BOC Chairman		
Mike Nassir	179	
Alecia Chen	48	
Valid write-ins	8	
No	25	
Senior Class President		
Bill Swanson	17	39-9 30
Gary Eastvedt	22	27-18 9
Erich Schneider	18	21-27 -6
Mark Humphreys	11	- - -
Valid write-ins	1	- - -
No	8	- - -
Junior Class President		
Eric Stout	26	34
Steve Anderson	26	30
Valid write-ins	7	-
No	20	-
Senior Class Sec./Treasurer		
Scott Kister	39	
Mark Schmidt	19	
Valid write-ins	2	
No	12	
Junior Class Sec./Treasurer		
Deepinder Brar	39	
Chris Goddard	15	
Valid write-ins	3	
No	21	

Winners are in bold. In the Senior Class President election, there was a runoff with three candidates. Voters could vote for one candidate and vote against one candidate. The first runoff number is the number of votes for the candidate, the second is the number against and the final number is the number for minus the number against.

Since Mike Nassir was elected BOC Chairman, he resigned as BOC Secretary. There will be an election for a new BOC Secretary next Friday. There will also be a bylaw change vote in the same election. The proposed bylaws are on page 5.

by Jim

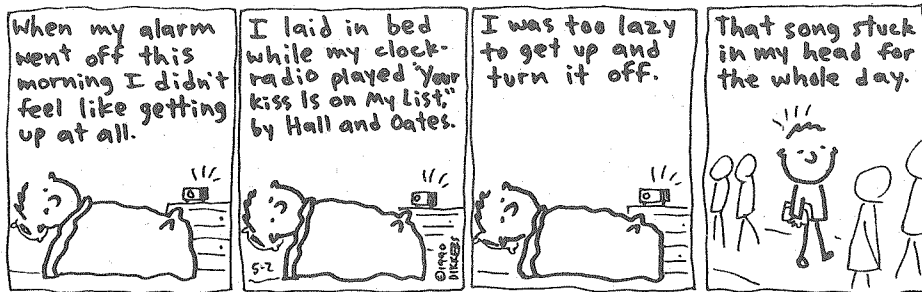
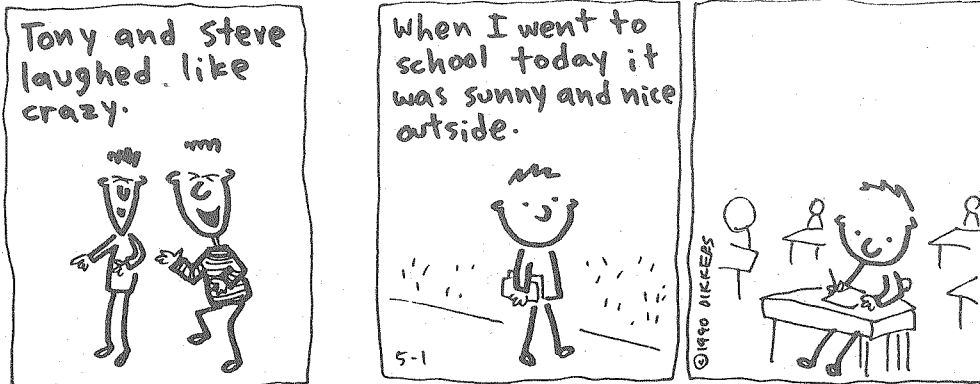
Jim's Journal



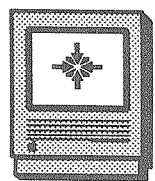
by Jim



Jim's Journal



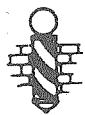
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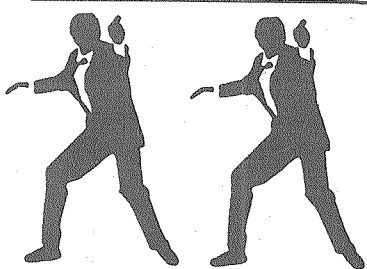
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EDITORS

Scott Kister
Emily Wen
Lindee Goh

CRIME BEAT EDITOR

Brian Kurkoski

WRITERS

Snehal Adodra
Chris Dunn
Sheldon Lim
Ali Mortazavi
Jon Pelletier
Raymond Shen

PHOTO EDITOR

Michelle Tseng

PRODUCTION

Nick Smith

BUSINESS MANAGER

Sonny Arcilla

ADVERTISING MANAGER

Asim Mughal

OFFICE MANAGER

Gavin Claypool

CIRCULATION

Peyjen Wu
Ayman Awad

THE CALIFORNIA TECH
40-58 SAC
California Institute of Technology
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(818) 356-6154

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Jim's Journal

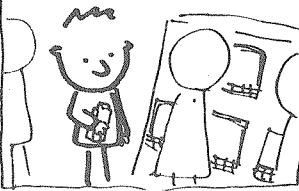
Yesterday I was thirsty for some orange juice, so I went to the store to buy some.



5-3

STYLING BY JIM

I looked at all the tabloids while I waited in line.



Today Steve said, "Hey, Jim, can I have some of your orange juice?"



I said yes.

Jim's Journal

Then Tony came by and said, "I'm plum sick and tired of school—hey, or! Can I have some?"



I said yes.

by JIM

Nationwide Concerns About Campus Life

by Snehal Adodra

A report in the *Higher Education and National Affairs* of May 7, 1990 cited campus life concerns of college presidents around the country. It reported higher education leaders coming to grips with "the disturbing realities of student life" as reported by the Carnegie Foundation for the Advancement of Teaching. The report was a joint effort by the Carnegie Foundation and the American Council on Education (ACE) and was determined by surveys of college and university presidents on 18 campuses. The issues of greatest concern were substance abuse, mainly alcohol (reported by 45%), student apathy (30%), and campus security and

crime (25%).

"This volume confirms what American higher education leaders have long suspected," said ACE President Robert H. Atwell, that changes in governance, demographics, societal expectations, and the legal framework within which institutions operate have caused a serious decline in the sense of common purpose and mutual responsibility that is necessary to the success of a learning community.

Although not generally seen as a problem, interracial/intercultural relations need to be improved overall, agrees President Ernest L. Boyer of the Carnegie Foundation. Caltech, as a small university, is

not devoid of problems, although they are different. According to administration, substance abuse, primarily alcohol, is the major one, also noticed by the number of student memos received. The recent conference on interracial relations suggests a greater concern for diversity at Caltech. The diversity of the incoming freshmen also suggests a growing concern for this.

Despite the concerns, the overall quality of life, student services, and facilities have improved, yet improvisations can be made. The report suggests six principles that might be helpful in reaching the academic goals:

An open community, where

freedom of expression is protected;

An educationally purposeful community, where faculty and students can work together;

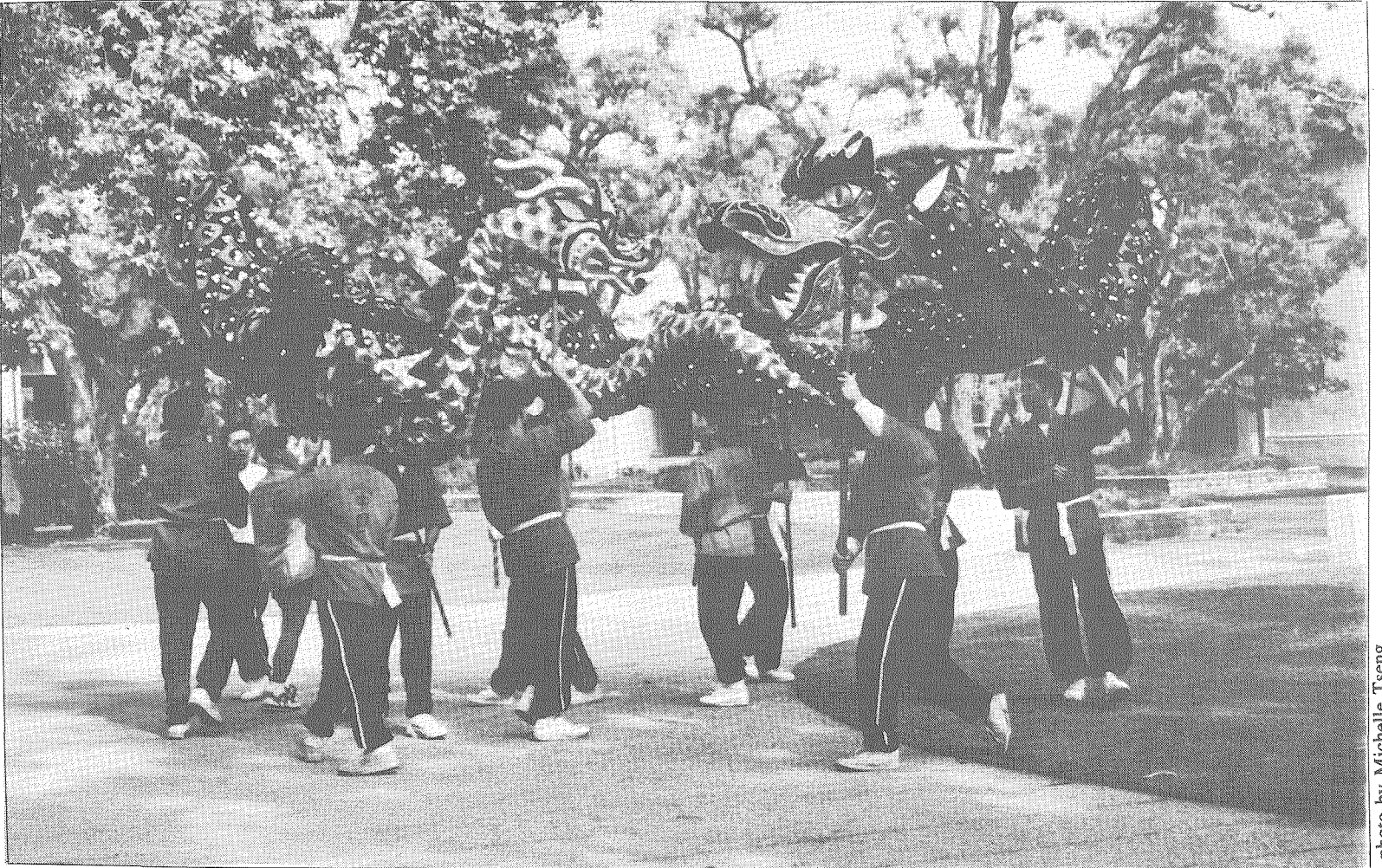
A caring community, where services are encouraged;

A disciplined community, where respect among professors and students is mutual;

A just community, where no one takes advantage of another human being—the purpose of the Honor System;

A celebrative community, where traditions are cherished.

These principles will help college presidents ensure decision-making to be constructive at all levels.



Last minute practice for the Dragon Dance for International Day today.

photo by Michelle Tseng

CCSA Dragon Dance

By Sheldon Lim & Raymond Shen

The Caltech Chinese Students Association will be performing the Chinese Dragon Dance in today's International Day festivities. The dragon, an animal of Chinese mythology, represents power, honor, prosperity, and good fortune. The dragon follows the lead of the pearl, a symbol of purity and honor. According to Chinese mythology, the pearl was dropped into the sea. The dragon, guardian of the pearl, constantly pursues it. Demonstrated in this graceful dance, the persistent dragon never catches the pearl. In the actual dragon dance, a drum and a variety of instruments add to the excitement of the performance. Featured in to-

day's performance is a 75 foot long dragon hand-made by members of the San Gabriel Valley Chinese Cultural Association. The head itself weighs sixty five pounds! In order to prepare for this dance, twenty-five to thirty members of the CCSA met on Sunday mornings for the past month to practice and to wake up the rest of the Caltech community with the lively beat of our drum. (Our apologies, hee hee!) Come out today for International Day for not only the great entertainment and cultural enlightenment, but also the great food from the various nationalities. If you are interested in the Caltech Chinese Students Association, contact Raymond Shen at 356-9283 or Sheldon Lim at 578-9504.

ATTENTION RESTAURANT ENTHUSIASTS...
 The little t restaurant guide is being completely redone this year. Pasadena will be covered comprehensively, but the entire LA area is beyond our scope and there are several good guides available on LA area restaurants.
 There will, however, be a small section on the LA area. If you have a personal favorite place to eat in the area, a place that you'd recommend to your friends and would like to share with the Caltech community, please submit a short description of the restaurant. This is not to be a review, but a recommendation which describes what makes the place special, different, memorable and worth revisiting. Any sort of eatery is welcome on these pages, from cafés to elegant restaurants.
 Please submit your contributions to Deepinder Brar, Blacker House 1-60. EVERYONE—students, faculty and staff—is encouraged to respond. Starting now through August. For more information drop a note at above address or call 356-9208 and ask for Deepi.

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Quantum Mech. Flapdoodle

By Jon Pelletier

On Tuesday, May 15, a packed Beckman Auditorium audience listened intently to the ideas of one of the institute's premiere scholars. In a lecture entitled "Quantum Mechanics and Flap Doodle," Dr. Murray Gell-Mann, the Robert A. Millikan Professor of Theoretical Physics, took the stage to discuss quantum mechanics and its relation to some of the attempts that both scientists and non-scientists have proposed to explain "paranormal" phenomena such as psychokinesis and telepathy. Dr. Gell-Mann has made significant contributions to elementary particle physics in the last fifty years. Most notable among them are the theory of quantum chromodynamics, the theory describing gluon interactions between quarks, and the Eightfold Way, a classification of elementary particles.

Dr. Gell-Mann began the lecture by explaining that it is inappropriate as a general method of approach to refute all phenomena which seems to contradict the accepted laws of physics. He expressed the importance of remaining open to new phenomena which seems implausible, yet do not contradict any well-established physical laws.

The main focus of Dr. Gell-Mann's lecture was to address the specific explanations that scientists have proposed to explain su-

perluminal (faster than the speed of light) communication by way of quantum mechanics. Dr. Gell-Mann attempted a clear explanation of the EPRB paradox, an idea which some writers have used to explain the possibility of superluminal communication. The EPRB paradox is a thought experiment proposed by Einstein and his colleagues in 1935 regarding the compatibility of relativity and quantum mechanics. The problem involves a light source emitting single photons in opposite directions whose spins are correlated at emission. By correlation, we mean that determining the spin of one particle uniquely determines the spin of the other. The assumption is made that the photons travel away from each other with the spin correlation intact. The paradox states that once the spin of one particle is measured, the spin of the other particle is uniquely determined instantaneously regardless of the distance between the two photons, thus demonstrating an instantaneous transfer of information. Dr. Gell-Mann explained that there was no information transferred over space since the information about the unmeasured spin is furnished by the assumption that the spins remain correlated. Dr. Gell-Mann went on to say that the experimental results from a series of famous experiments similar to this was in fact a brilliant verification of the quantum

theory over proposed "hidden variable" theories proposed to enable classical physics to reproduce many of the results of quantum mechanics.

The questions raised by the audience after the lecture emphasized an earlier point by Dr. Gell-Mann that the language of quantum mechanics was insufficient to prevent great confusion in the subject. Dr. Gell-Mann stated that he was currently working with a colleague trying to improve the language of quantum mechanics both for the scientist and the layman. When asked to recommend a good book on quantum mechanics for the layman, Dr. Gell-Mann confessed that he did not know of any.

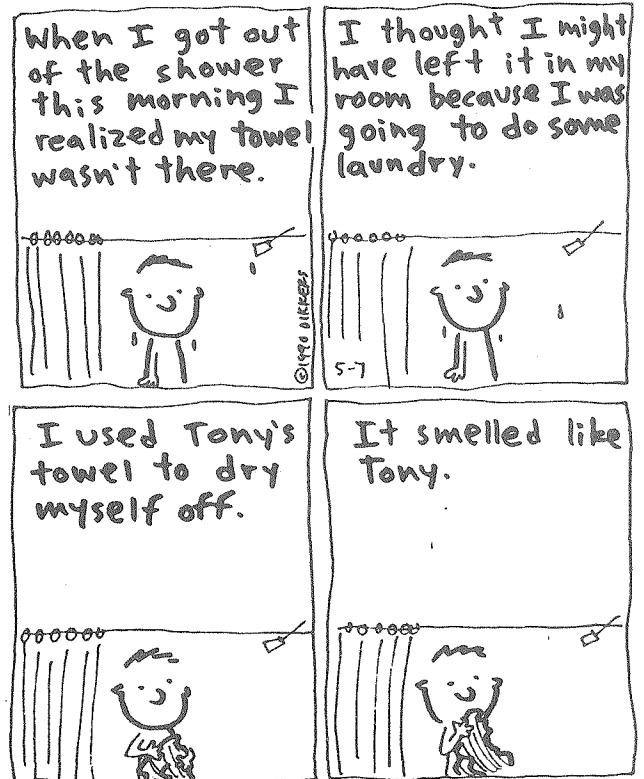
Dr. Gell-Mann spoke briefly about some of the connections that some writers have tried to establish between modern physics and eastern mysticism. Dr. Gell-Mann agreed that many of the similies drawn by these writers are very poetic, but to make the statement that there was a real connection between the conclusions of these diverse philosophies was incorrect.

The lecture by Dr. Gell-Mann was the last in an annual series of lectures sponsored by the Graduate Student Council and the Southern California Society of Skeptics. If this year's schedule of brilliant lectures was any indication, next year's lectures will prove enlightening and entertaining.

Jim's Journal



Jim's Journal



by Jim

A Watson Lecture By Dr. James Watson

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 efforts on the initiative, he has been one of its most ardent supporters in face of the growing number of critical and violently hostile number of biologists. He therefore tried to provide the moral and scientific justification for the undertaking of the three billion dollars 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 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 a NIH funded scientists to produce tangible improvements of the society's wel-

fare. 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 could think of any alternatives in the case where no other country would be 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 hall.



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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:
Fleming: Kent Nordstrom and Ted Rogers
Ricketts: Joe Dadek

Blacker	25	18	10	5	0	2	0	0	0	8		
Dabney	38	18	2	0	1	1	1	1	2	0	9	
Fleming	20	18	0	0	0	3	0	0	0	2	5	
Lloyd	27	13	0	0	3	5	0	0	0	1	0	9
Page	15	18	0	1	4	0	0	0	0	0	5	
Ruddock	33	12	0	0	0	4	0	0	0	0	4	
Ricketts	23	25	3	2	2	2	3	2	2	0	1	17

Fleming

There hasn't been a Fleming Inside World for several weeks. Why is this, you may ask? It is because everyone else in the house is worthless and weak. Everyone else in the house is lame. Everyone else in the house is a bozo. Everyone else in the house has zero house spirit. So, while everyone else in the house was at the Outdoor Olympiad, we sat down and wrote this Inside World.

Well, now that Randy's finally gotten his act together, it looks like Alley 6 has become fully suburbanized (You can thank "Ask Al" for his sage advice later, Randy. Congratulations on getting a live one, uh, life that is—Y.F.). However, I'm thinking of circulating a petition to make them move to her place in Alley 3. She's just too #\$\$%*c cheerful in the morning, Randy. If you don't move, someday I'm gonna kill 'er. Just so's you've been warned.

Emily Rose was back again, so Mom was on her verry best behavior. Hmmm, I wonder what's in that Diet Coke can that makes Mom giggle so much? Maybe it's been carbonated with nitrous instead of CO₂. I guess that's one way to increase sales of coke at 328 next year. . . Helpful hint to visiting younger siblings: never, never, never, never ask "What's a Nelson? Really? What's it feel like to be in one? Arrrghh. . . WHOOSSSH!"

Speaking of WHOOSSSH, it looks like Maddux finally came out of hiding. What was your problem, Tim? Koehler's not so scary, even when he does have steam coming out of his ears, fire coming out of his nostrils, and small, furry mammals trying to crawl out of his mouth.

Howza! Does this sound like something that would be said by the human tomato-face (I mean, we're talking RED here—as red as Koehler after he took a sip of that industrial varnish remover that came in the Mason Jar)? "You can't laugh at me tomorrow! Sssshh! Don't laugh at me! Quiet [hic] Shut up Mike! [pass out for several minutes] I mean it! [belch] Sssshh! [guzzle, guzzle] Don't laugh at me!" Look, maybe I wasn't there. Maybe I don't understand the circumstances. Maybe it's not as pathetic as it seems to sound to me. At any rate: "HAHAHAHAHAHAHAHA!"

Don't worry, I'm laughing with you.

Ben! Where do you find those bimboes? Tough luck not being able to pawn off the short one. I'd have thought for sure that Duchovnay would have been desperate enough to take a recently-deceased goat, much less an actual living, brainless high school bimbo. It was a two-way battle for the tall one, I guess. Bill from above, Ben from below—sounds like something from a Disney movie, doesn't it? Too bad the three of you disappeared before Janine showed up. It could've been a *ménage à quatre*.

At any rate, our on-the-spot reporter is back from Outdoor, with a report of the behavior of our dicky Ath One. Seems Duchovnay wanted to have at least one sport that the frosh wouldn't beat his class in, so he changed things around. Why? Because in "Outdoor" Olympiad, we shouldn't be playing an "indoor" sport like volleyball. No, we should replace it with an "outdoor" sport like basketball (so the lowly sophomores won't be crushed by the even-lowlower but still quite bone-crunching volleyball might of the frosh). Our observer on the scene had this to say about our hypocritical Ath One:

"He didn't really even have to do anything that was specifically dicky. He had this sort of aura of dickiness about him that permeated everything he did, no matter how mundane."

Congrats to our own Mark Humphreys, who is finally a man. Good job, Mark. I understand your prosthesis is working out nicely.

This special bulletin just in:

Anyone with an Indian-sounding name, please contact Rob Williamson as soon as possible! He's been trying to reach you all night, not realizing that it was midday in India when he was calling, meaning that you were all on the phone home.

Which brings us back to current political news: REPLACEMENT POSITION FOR AMOSH CREATED! I don't care, though, because I'm not going to be here. NEW, INCREDIBLY HARSH DRUG & ALCOHOL POLICY IN THE WORKS! I don't care, though, because I'm not going to be here. Hell, I'm 21 anyway. INTERHOUSE TO BECOME A THING OF THE PAST? I don't care, though, because I'm not going to be here. BARRY FINALLY GOT A HAIRCUT! Or did he? It's so hard to tell. BARRY NEEDS ANOTHER HAIRCUT! Whatever.

Well, I don't know. This all seems so pointless. . .

—Young Fansome and Cinnamon Toast

The Inside World

Ricketts

Hi there! I'm back. Not that I was gone, just lazy. So, what happened around here this week? Durn little from what I can tell. So it's time to start making things up.

An unnamed source reports that if you view Julian's profile, you discover his true race: *gelfling*. (Our tribute to Jim Henson this week.)

A malfunctioning explosive charge in the Pot, which attracted the attention of a malevolent god, opened a rift in the space-time continuum, allowing hordes of flying black manta rays to pour into the courtyard. They subsequently hid in the SAC and steam tunnels where a group of people have been spotted battling them on weekends. Reports are that you're safe if you stay in the sun. Vampire manta rays?!?

"Do you want to come to my place, bouncy bouncy?" The heads of Scurves can be seen over L.D. roof these days as the trampoline returns to use after a two-year exile. Moon jumps and butt wars abound, but when you get off again, remember that the ground is hard.

Rude/Slander Air Conditioner: Joanna and Kirsten's stamp collection has been looking a little neglected in recent weeks. They seem to have taken up math instead. At least mathematicians. Despite rumors to the contrary, Bernie is still a member of Ricketts and has even been spotted within the last year. Our Frame House correspondent says Lynell's palms are as red as her hair. Bizarre sounds of tortured animals have been heard coming out of Shroom's room late at night. Parent rating of the men of Ricketts: strange and horrible, a poor selection of men to choose from (or something like this). I can't include the name of the Froosh female whose mother allegedly said this, as I understand that she reads this and I don't wish to cause her head to explode. Beer and Kit Kats. OFH correspondent also says we may need to BOC Lindsey since he was seen to substitute a roll of toilet paper for his brain during a midterm. With all of that extra scratch paper, he clearly had an advantage over the others.

Joe Bob Scurve: 0 breasts, 2 pints of blood, arms roll, 2 dead bodies, 1 star.

Senior Profile: The Wookie. Though for several years his true house affiliations seemed in doubt, in the end (with a little help from Louie) he came back to his origins and spent this year in Ricketts (mostly). This Immoral Influence occasionally receives mail for Michael, though it turns up in the "T" box instead of Mecklor's box as expected. He is an avid role-player, clearly an attempt to escape from his true persona, which has entirely too much hair. Also, he has been known to spend 99.9% of second term doing TACIT.

Whether you can hear it or not, Duane is dead!

—The Physics Messiah

We will not be printing Inside Worlds next week. If an Inside World writer would like to write a story for next week, please talk to an editor.

BYLAW CHANGES
 Italicized sections indicate change.
Article VII Sec. 3

WAS: (a) When a suspected violation of the Honor System is reported to the Board, the *Chairman and Secretary will conduct a preliminary investigation. . .*

CHANGE TO: (a) When a suspected violation of the Honor System is reported to the Board, the *Chairman or Secretary, and one other Board member will conduct a preliminary investigation. . .*

WAS: (e) The *Chairman and Secretary of the Board* shall not have a vote on the Board.

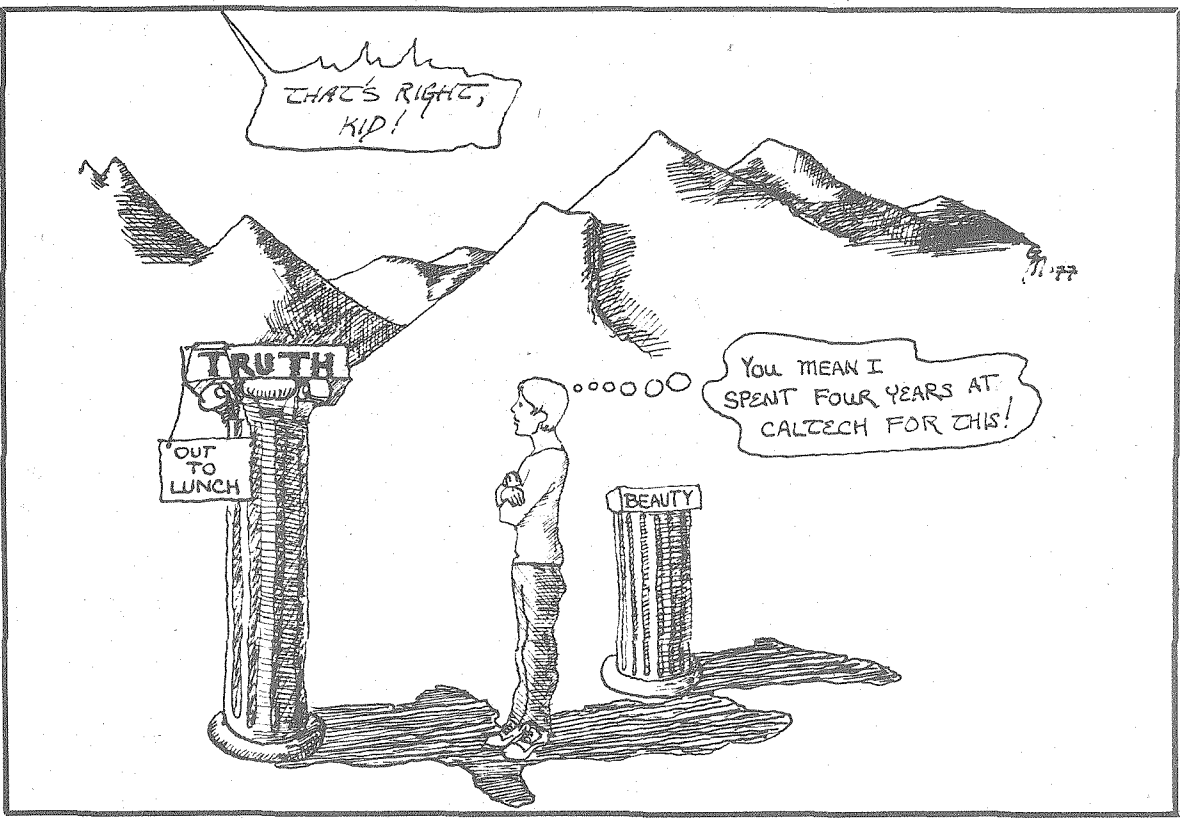
CHANGE TO: (e) The *preliminary investigators* shall not have a vote on the Board.

WAS: (m) A three-fourths (¾) vote of *those members* of the Board present shall be necessary for a decision of the Board.

CHANGE TO: (m) A three-fourths (¾) vote of the *voting members* of the Board present shall be necessary for a decision of the Board.

Article V Sec. 4

ADD: VACATION. Members of the Board of Directors may take one all expense paid vacation to a tropical island of their choice during their term of office. The vacation should not last more than one week. ASCIT will pay for airfare, hotel accommodations and meal expenses.



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AMPS - POWER / INTEGRATED

RECEIVERS

#	BRAND	MODEL	COMMENT	REG\$	SALE\$
1	PROTON	550	INTG 50w/CHANNEL	350	149 U
1	NAD	2155	PWR 55w/CH HIGH CURRENT	478	249 U
1	DENON	POA-1500	PWR 150w/CHANNEL GLASS-A	800	369 B
1	SAE	A-201	PWR 105W/CH	800	369 U
2	DENON	AVC-700	INTG 55 w/CH W/ SURROUND	600	438 D
1	LUXMAN	LV-105u	INTG TUBE/HYBRID	1,000	499 B
1	DENON	PMA-1520	INTG 120w/CH BUILT IN D/A C	1,000	688 D
1	PS AUDIO	200C	PWR 200 w/ch	2,000	999 U
2	AUD RESCH	M300mkII	PWR 300W/CH MONO FRU	5,500	3,495 D
1	AUD RESCH	D-125mkII	115 W/CH HYBRID	4,500	3,600 D
1	THRESHOLD	SA-4	PWR 100 W/CH GLASS 'A'	6,000	3,999 D

#	BRAND	MODEL	COMMENT	REG\$	SALE\$
1	PIONEER	SX-525	IT WORKS!	350	99 U
2	DENON	DRA-325	35 W/CH DIG REMOTE	350	298 ND
1	LUXMAN	R-113	HIGH CURRENT 35w/ch	480	299 D
2	NAKAMICHI	TA-1	35 W/CH	349	299 ND
1	mitsubishi	M-AV3	80W/CH W/SURR SOUND	800	377 ND
1	DENON	DRA-425	50 w/CHANNEL REMOTE	450	383 ND
2	DENON	DRA-625	65 w/CHANNEL REMOTE	550	439 ND
1	NAKAMICHI	TA-2A	50W/CH REMOTE	600	479 D
2	mitsubishi	M-AV2	80w/CH AV RECEIVER	1,000	579 ND
2	LUXMAN	R-115	70 W/CH /REM + MILTI RM	850	595 B
1	PROTON	AI-3000	REC/CASS/CD W/REMOTE	1,000	689 ND
1	mitsubishi	M-AV1	120W/CH W/SURR SND	1,200	699 N
1	NAKAMICHI	TA-4A	100W/CH REMOTE	1,200	799 D
3	LUXMAN	R-117	160 W/CHANNEL REMOTE	1,200	888 ND

VIDEO

#	BRAND	MODEL	COMMENT	REG\$	SALE\$
1	SHARP	COLOR	5" PORTABLE W/BATTERY	329	188 U
1	MGA	CS-1346	13" COLOR W/REMOTE	329	244 ND
1	LUXMAN	F-105	SURROUND SND PROCESSOR	600	299 U
2	MGA	CS-2015	20" STEREO TV	500	349 N
1	mitsubishi	CS-2058	20" STEREO TV	549	389 D
4	mitsubishi	HS-U31	VHS 4 HEAD REMOTE	599	399 ND
1	mitsubishi	HS-U51	VHS HI-FI 4 HEADS	799	499 D
1	mitsubishi	CS-2721	27" STEREO TV	800	679 ND
1	PROTON	VT-210	BEST 20" STEREO TV RGB	900	699 ND
1	mitsubishi	CS-2671	DIGITAL PICTURE/PICTURE 26"	1,100	749 ND
1	mitsubishi	HS-U61	S-VHS HI-FI	1,100	749 D
1	PIONEER	LD-W1	LASER VIDEO DISC PLAYER	1,699	999 D
1	mitsubishi	HS-U80	THE "BEST VCR" PERIOD!	1,899	1,499 D
1	mitsubishi	CS-3120	31" STEREO DIRECT VIEW TV	2,500	1,899 ND
1	mitsubishi	CS-3505	35" TABLETOP VERSION	2,900	2,099 N
1	mitsubishi	GK-3520	35" OAK CONSOLE	3,199	2,399 ND
1	SHARP	XV-100	LCD PROJECTOR	5,000	3,999 D

PREAMPLIFIERS

#	BRAND	MODEL	COMMENT	REG\$	SALE\$
1	NAD	1300	BASIC PREAMP	????	149 U
1	LUXMAN	C-12	LAB STUDIO STANDARD	650	299 U
1	LUXMAN	F-105A	W/SURROUND AMP + REMO	600	399 D
1	NAKAMICHI	CA-7A	HIGH END W/ TONE + REM	2,700	699 U
1	CONR JHSN	PV-5	TUBE ANALOG	1,500	788 U
1	FORTE	MODEL 2	A GREAT PREAMP	1,100	792 ND
2	LUXMAN	TP-117	MULTI ZONE W/TUNER	1,200	840 D

TUNERS

#	BRAND	MODEL	COMMENT	REG\$	SALE\$
1	LUXMAN	T-100	DIGITAL/PRESETS	279	169 B
2	DENON	TU-460	DIGITAL TUNER	300	199 ND
1	LUXMAN	T-111	"BEST BUY"	330	199 B
1	DENON	TU-800	TOP OF THE LINE!	500	349 ND
1	LUXMAN	T-117	DIG PRESET TOP/LINE	600	409 B
1	MAGNUM	FT-101	SIMPLY THE "BEST"	700	595 D
2	LUXMAN	TP-117	TUNER W/BUILT IN PREAMP	1,200	799 ND

SIGNAL PROCESSORS

#	BRAND	MODEL	COMMENT	REG\$	SALE\$
1	NILES AUDIO	VSA-1	LINE LEVEL VIDEO SWITCHER	179	119 D
1	ALPINE	AP-6000	PCM ENCODER / DECODER	1500	199 D
1	LUXMAN	F-105	SURROUND SND PROC	600	299 U
2	LUXMAN	F-105A	SURROUND SND PROC	600	399 D
3	DENON	AVC-700	VIDEO CNTRL INTG AMP	600	449 ND
1	KLYNE	SK-2A	MOVING COIL HEAD AMP	800	499 U
1	mitsubishi	M-AV2	A/V RECEIVER 80W/CH	1000	599 ND
1	ATHENA	MC-10	POLYPHASOR	1000	649 D
1	ATHENA	ML-10	POLYPHASOR	1000	649 D

FURNITURE

#	BRAND	MODEL	COMMENT	REG\$	SALE\$
2	TARGET	AIB	AMP ISOLATION BASE	79	59 D
1	mitsubishi	MP-267	26" TV SWIVEL STAND	179	88 D
1	CWD	MCWD53	DOORS > MONITOR CART	140	91 D
1	TARGET	TT-2	EQUIPMENT STAND	160	126 ND
1	RANDOM	LOWBOY	OAK STEREO RACK	229	148 D
2	RANDOM	RACK	W/ADJUSTABLE SHELVES	299	188 D
1	CWD	VC-3053	VIDEO CUBE	330	199 D
1	CWD	MC-2153	MONITOR CART WO DOORS	310	199 D
1	TARGET	TT-3RR	TTBLE STND/RECRD RACK	249	199 ND
2	CWD	KD-3003	30" OAK STEREO RACK	340	204 D
2	TARGET	TT-5	HIGH TECH RACK	279	237 ND
1	CWD	LB-3073	LOWBOY W/4SHELVES	465	326 D

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SOME LAST MINUTE SPECIALS HAVE BEEN ADDED!

NOTE: THE LUXMAN D-113D & D-105U WENT DOWN. IF YOU PAID MORE, COME IN FOR A REBATE!

NOTE: THE NAKAMICHI OMS-1A ALSO WENT DOWN. IF YOU PAID MORE, COME IN FOR A REBATE!

SPEAKERS

COMPACT DISK PLAYERS

#	BRAND	MODEL	COMMENT	REG\$	SALE\$
1	GNP	SM-5	5" 2WAY	229	139 D
1	GNP	MODEL 1	PROTOTYPES 10" (MDF BLACK)	450	199 D
1	GNP	SM-P1	SOUND MIRRORS	400	199 U
1	GNP	SUB-1(ea.)	10" SUBWOOFER (OAK STAIN)	369	199 ND
1	ENERGY	ESM 3	2 WAY BOOKSHELF	350	209 D
1	GNP	MODEL 28	8" PROTOTYPE (UNF WALNUT)	650	219 D
1	GNP	SM-62	6" 2 WAY	400	219 N
1	GNP	MODEL 10	SCRATCH-N-DENT (WHITE)	399	239 D
1	GNP	MODEL 1	8" WOOFERS (WALNUT)	450	249 D
1	GNP	MODEL 1	8" WOOFERS (MDF BLACK)	450	249 D
1	GNP	MODEL 10	WHITE DEMO'S	450	249 D
1	GNP	MODEL 2	SCRATCH-N-DENT WALNUT	600	299 D
1	GNP	S-6	6" 2-WAY PROTOTYPE	680	299 ND
1	ROCUSTICS	ROCKY JR	HARD ROCK SPEAKERS	350	299 ND
1	MIRAGE	368	2-WAY BOOKSHELF	480	314 ND
4	MITSUBISHI	S-8040	AMPLIFIED SUBWOOFER	600	439 ND
1	GNP	MODEL 2	6.5"(x2) WOOFERS (WALNUT)	600	450 D
1	GNP	MODEL 20	NOT IN GLOSS BLACK	699	489 D
1	MIRAGE	468	2-WAY BOOKSHELF	680	510 ND
2	GNP	MODEL 20	GLOSS BLACK	900	524 ND
1	ENERGY	PRO 22	CANADA'S BEST W/ STANDS	980	675 D
1	INFINITY	REF 2.5	REFERENCE LOUDSPEAKER	2,000	699 U
1	MIRAGE	768	ROCK AND ROLL!	1,000	799 D
1	MITSUBISHI	M-S5100	HOME THEATRE TOWER	1,500	899 D
2	GNP	VALKYRIE	JR PROTOTYPE	1,995	995 D
1	GNP	VALKYRIE	SERIES IV (MDF BLACK)	1,995	1,178 D
1	GNP	VALKYRIE	SERIES IV PROTOTYPE (MDF)	2,495	1,499 D

#	BRAND	MODEL	COMMENT	REG\$	SALE\$
1	DENON	DCD-520	PROGRAMMABLE W/ REMO	250	199 ND
1	DENON	DGD-810	PROGMBLE/RANDOM ACC	480	199 U
1	NAKAMICHI	OMS-1A	PROG/REM	350	258 D
2	NAKAMICHI	OMS-1A	PROG/REM	350	279 N
8	LUXMAN	D-113D	16 BIT SGL D/A DIG OUT	550	289 ND
4	LUXMAN	DZ-111	PROG/REM 5-YR WARRANT	350	299 ND
1	MITSUBISHI	M-C4100	5-DISC CHANGER	580	299 D
1	LUXMAN	D-112	16 BIT SGL D/A	550	338 B
2	MITSUBISHI	DP-311	DUAL D/A DUAL DAC	700	347 ND
3	MITSUBISHI	M-C5010	PROGRAMMABLE W/ REMO	500	399 ND
4	LUXMAN	DZ-112	PROGRAMMABLE W/ REMO	580	424 ND
1	LUXMAN	DC-113	6+1 CHAMGER	680	438 B
1	NAKAMICHI	CDP-2A	NO DESCRIPTION HERE	595	439 ND
2	MITSUBISHI	M-C4030	CHANGER	680	449 N
1	DENON	DCM-777	6 DISC CHANGER	700	499 D
1	CAL AUDIO	ICON	NEW MODEL!	695	591 D
1	NAKAMICHI	CDC-3A	CD CHANGER	895	644 D
2	DENON	DGD-156	20-BIT LAMBDA CIRCUIT	750	649 ND
1	TANDBERG	3015A	INCREDIBLE	2,000	699 U
3	LUXMAN	D-105U	TOP OF THE LINE BRID	1,200	699 B
1	CAL AUDIO	TARGET	TOP/LINE SOLID STATE	1,295	999 D

PHONO CARTRIDGES

#	BRAND	MODEL	COMMENT	REG\$	SALE\$
3	GRADO	XF3E+	MOVING MAGNET	66	39 N
2	GRADO	PZF3E+	MOVING MAGNET	69	49 N
1	GARNEGIE	MODEL 1	LOW OUTPUT MOV COIL	780	79 U
1	AUDIOQUEST	MC-3	H/O MOVING COIL	150	88 ND
2	DENON	DL-301	MOVING COIL	169	129 N
1	GRACE	F9E	GREAT!	250	189 ND
1	TALISMAN	'B' or 'S'	MOVING COIL	399	289 ND
1	GRACE	F9 RUBY	GREATER!	395	289 ND
1	KISEKI	PHS	MOVING COIL	975	777 D

TONEARMS

#	BRAND	MODEL	COMMENT	REG\$	SALE\$
1	PREMIER	MMT	'S' SHAPED W/REM HSHELL	290	232 ND
1	GRACE	704	TANGENTIAL AIR BEARING	300	49 U

TURNTABLES

#	BRAND	MODEL	COMMENT	REG\$	SALE\$
1	TECHNICS	SL-D2	D DRIVE	180	89 U
1	PANASONIC	SL-10	W/RABCO SP-8E	570	228 U
2	DENON	DP-23	D DRV/ QUARTZ LOC/AUTO	300	234 ND
1	DENON	DP-47F	D DRIVE/DYN SERVO/AUTO	475	371 ND
1	SYSTEMDEK	11X	W/ARM, TERM BLK, TIPTOES	669	399 D
1	VPI	JUNIOR	NO TONEARM	625	499 ND
1	ORACLE	PARIS	W/BETA TONEARM	895	627 D
1	VPI	HW-19 III	W/O TONEARM	1,145	788 D
1	ORACLE	DELPHI	WITH ZETA TONEARM	2,245	999 U

MISC AUDIO ACCSY

#	BRAND	MODEL	COMMENT	REG\$	SALE\$
1	ENERGY	ST-20	SPEAKER STANDS	60	37 U
1	CHGO-SPKR	STANDS	BV-20-SPKR STANDS	60	39 D
1	ENERGY	ST-1	SPEAKER STANDS	80	55 U
1	SPECTRAL	MI-500	1.5M INTERCONNECT	185	75 U
2	PROTON	320	CLOCK RADIO	129	89 ND
6	NAKAMICHI	TM-1	STEREO CLOCK RADIO	139	119 N
1	AUDIOQUES	CLEAR	12' SPEAKER CABLES	1,299	649 D
1	MIT	330SG	15' SHOTGUN INTERCONNECT	1585	899 U
1	MIT	PC-18	SPEAKER CABLES 8' & 12'	35% OFF	N
>>			ALL CABLES & ACCESSORIES	20% OFF	

TAPE DECKS

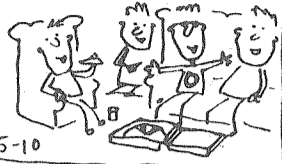
#	BRAND	MODEL	COMMENT	REG\$	SALE\$
1	DENON	DRM-500	NO DESCRIPTION HERE!	380	229 D
1	LUXMAN	K-111	DOLBY B/C	380	249 DB
1	MITSUBISHI	M-T5100	DUAL AUTO REVERSE	400	279 D
1	DENON	DRM-700	3 HEAD SYSTEM REMOTE	400	299 D
2	LUXMAN	K-110	AUTO REVERSE	480	299 B
3	NAKAMICHI	CR-1A	BASIC ENTRY MODEL	340	299 ND
2	DENON	DRR-680	AUTO REVERSE	400	329 ND
1	LUXMAN	K-112	AUTO-REVERSE	600	399 DB
1	NAKAMICHI	CR-4A	3 HEAD DUAL CAPSTAN	1,000	777 D
1	LUXMAN	KD-117	DAT DIG. AUDIO RECORDER	2,500	999 D

Jim's Journal

by Jim

Env: Caltech

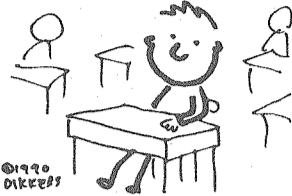
Tony and some of his friends ordered a pizza and sat around our apt. last night.



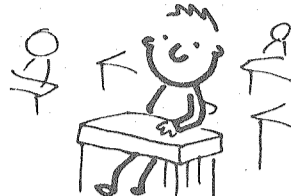
I had trouble getting to sleep because they stayed up late being silly and loud.



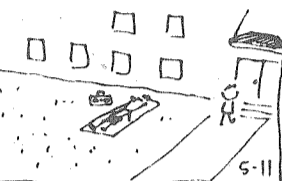
Today we had a big review in my European history class.



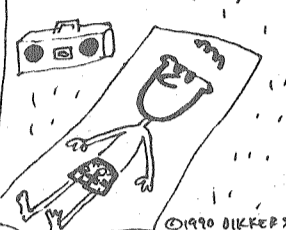
I think I'll probably do okay on the final exam.



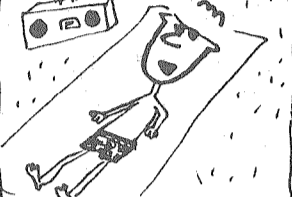
Today I was walking into our apt. building when I saw Tony sunbathing in the lawn.



He was playing some rap music on his radio.



"You ought to come out here, man, the sun is great," he said.



When I said I didn't feel like it, he said, "I swear I'd make a great hermit, Jim."



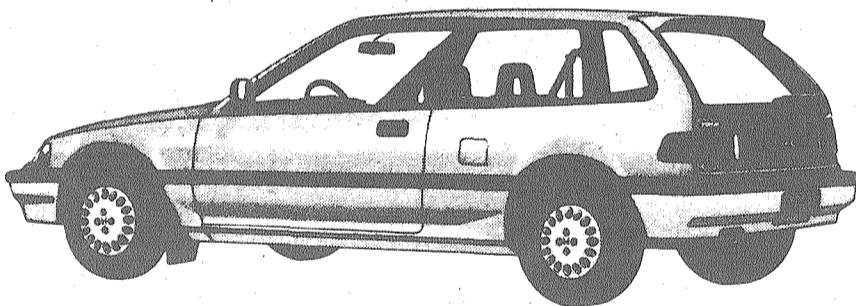
by Santosh Kamath
The need for self-examination and self-education is more critical now than at any time in the past. The pit of the seventies, hyped by media attention of the first Earth Day, has widened and deepened considerably in the two decades since, and is frighteningly near collapse for a large portion of the human population.

Industrialization has produced magnificent and clever structures and tools. It has enabled some to reach for the stars and others to observe and even "participate" in chemical reactions at the atomic level, and has allowed us to make extraordinary progress in our understanding of our world and ourselves. But the rates of change have occurred at such an accelerated pace that we have been unable to cope with the problems that have accompanied the advances. Combined with the age-old and uniquely human craving for power in its myriad forms, compassion is being

stripped from our hearts and souls. Money, the mechanism for portable power, and compound interest, by which money makes money, has made possible the amassing of incredible amounts of wealth by a relative few, while increasingly large numbers of laborers receive increasingly smaller dividends for their effort. In "underdeveloped" countries, massive strip-mining has become a vehicle for short-term payoffs of huge and ever-mounting debts to industrial consumer machines, contributing to unprecedented habitat destruction and surface contamination. Speculation rights granted primarily to those already wielding considerable power have given rise to deforestation and irrecoverable loss of topsoil and biodiversity. On the home court, creation and maintenance of meat factories has had the same effect; coupled with large-scale diversion of water and irrigation, grossly mismanaged by short-term profiteers, the result is desertification, due to soil dehydration and topsoil loss to the elements on the one hand and surface salt accumulation on the other. Also at home, the growing number and sizes of landfills and poisoned groundwater sources are museums of the indiscriminate consumer mentality

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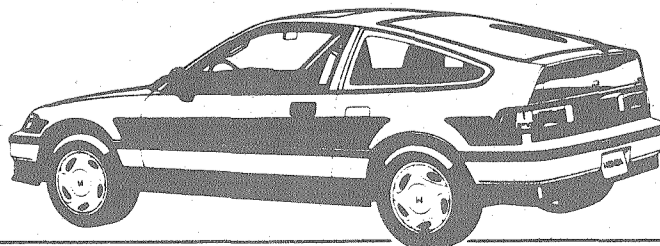
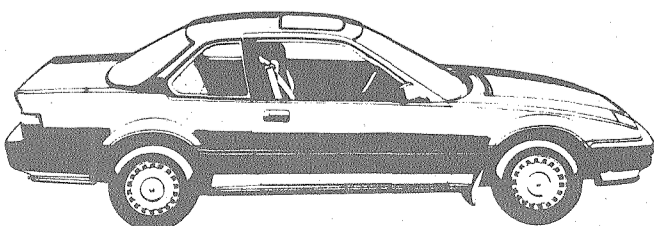
- Much Money
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Environmental Task Force Column

(to wit, plastic packaging materials, and assorted gadgets having lost their "value" due to planned obsolescence and/or design-limited short mechanical lifetimes). Most recently, protracted and unusually severe "El Nino" conditions and consequences (ENSOs) pose an immediate threat to entire ecosystems globally, quite conceivably because of the sharp increase in greenhouse gases in the atmosphere. The long-term effects are felt today in the form of powerful storms, flooding, drought, and greatly reduced coastal fish catches for local populations, placing self-sustaining communities at immediate risk. Our own grain belt, for so long a surplus producer, has had yields in the late eighties that have forced us to dip into our reserves; the viability of grain production may be at stake.

The above list of physical effects related to industrialization goes on and on. But that's only part of the story. On the social front, an equally distressing picture

emerges. Huge numbers of peasants are displaced daily from agricultural land to cities lacking infrastructures to support the influx (frequently, city-dwelling landowners have forced the expulsion in the name of cash-crop profits), contributing more and more to ghetto-cities. Health care in most of the world has become in effect a commodity, sold to the highest bidder. The eviction of the poor, elderly and mentally ill to the streets in this country is at an all-time high. Crimes of poverty, identity, addiction, stress, and now even boredom are dehumanizing urban environments. Anorexia, bulimia, and obesity, diseases of the First World, are epidemic in the U.S., a country in which six percent of the world's population consumes fifty percent of the world's supply of meat, milk, eggs, fish, fruit and vegetables. And so on...

The irony is that by buying into the "more, newer, bigger and faster is better" mentality, we no longer

enjoy the privileges of comfort, convenience and time that technology has made possible (when did you last have any significant amounts of "free time"?). We all suffer to some extent from media mind control, which has added a new dimension to the concept of peer pressure. Leaders today are often nothing more than front-line followers, running ever faster and getting farther behind. It should come as no surprise, then, that compassion for those outside our tiny circles has been relegated to the back seat. The fear of losing what we have, of having less than some others in our circles, has blurred the line between what is necessary for "survival" and what is a luxury.

So what's to be done? Naturally, it's a very personal matter as to how to run our individual lives. But I suspect that serious reflections will give rise to some common elements. My own thoughts...

1) We must reduce our overall quantities and habits of consump-

tion, becoming aware of responsible alternatives to existing practices, and even question the very necessity of many of our actions. Most of us contribute in small but significant ways directly to the current state of the world. All of us do, by example, whether we like it or not. Our choices and preferences affect most of the rest of the world socially, economically, and ecologically.

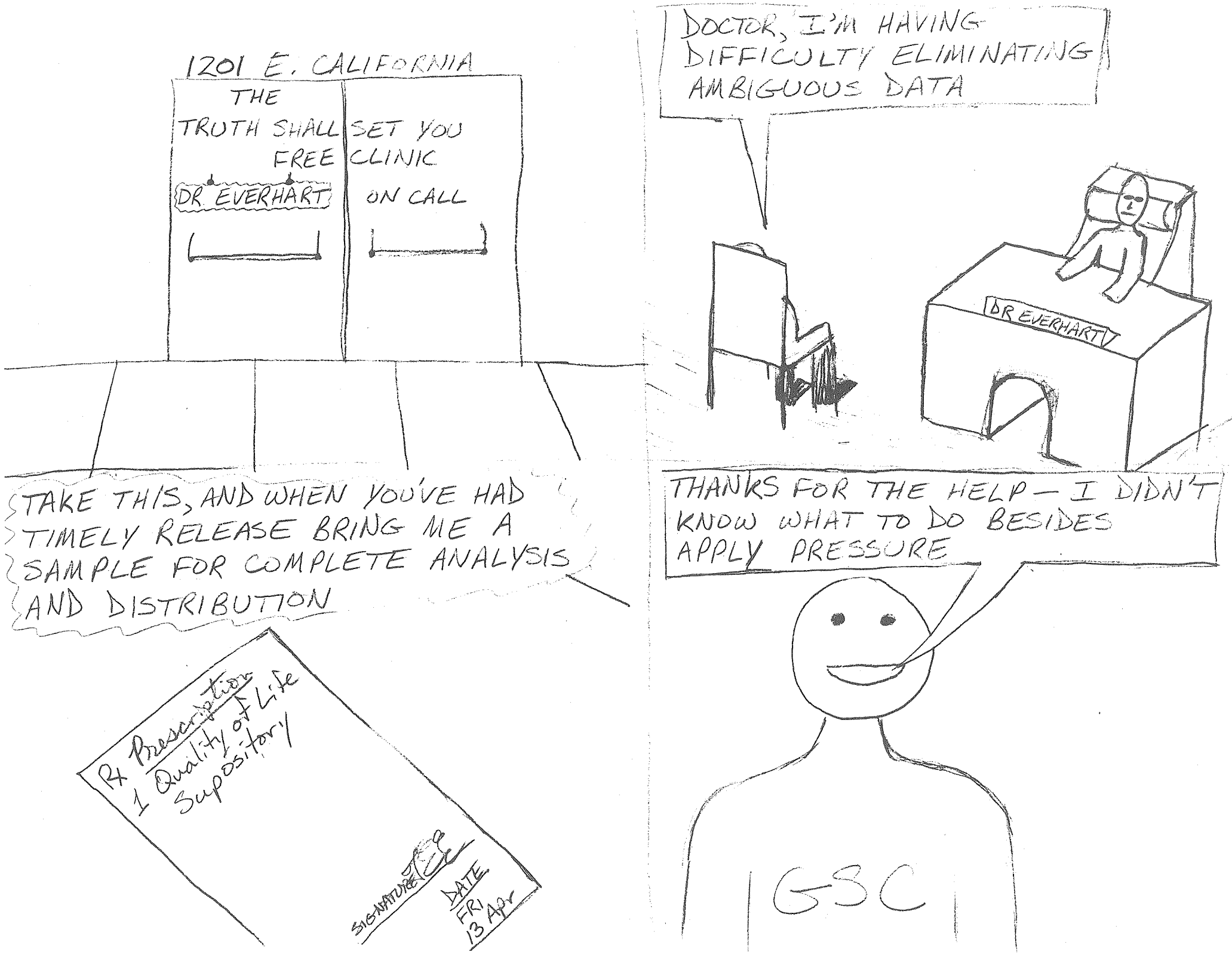
2) We have to demand of ourselves and our political representatives' sensitivity to the needs of the planet as well as the needs of our fellow humans. The power of sanctions has proven over and over again that a determined minority can have a considerable impact on their world. Consider South Africa at a global level and the tuna boycott at the national and local levels. Results may not be immediate, but they are felt.


3) In our scientific and technological pursuits, we must place a heavily weighted value on ecology as a variable in economic feasibility.

Too often these days, the "cost" of advances in environmental terms is not attached to the producers of the goods and the side-effects. Technoethics, if you will.

4) Education of today's youth must be elevated considerably as a priority. With information flowing at such an incredible rate, the earlier we are able to grasp the methods of processing and coping, the easier it will be to anticipate and react to trends and conditions.

5) And lastly, perhaps most importantly, it is essential that we find ways to return to others that which we have received, whether in the form of knowledge and wisdom, service, material wealth, love, or whatever else. Only then can we hope to be able to leave the world a better place than it was when we arrived. With Caltech's centennial arrival in 1991, I wonder if we could make individual commitments in anticipation of the next centennial, of which our children's children and theirs will be beneficiaries.





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Lack of Communication at Tech

On Friday, May 18th, the Caltech FOCUS Group had its fourth discussion session, this time on communication. It addressed three issues: informal communication in the Caltech community, *the California Tech*, and conflict resolution between campus members.

On the issue of communication between community members, Dr. Sonney Chen stated that while there is trust between faculty and students, there are difficulties which exist to hinder communication. Dr. Chen pointed out that it is easier for the faculty to communicate with undergraduates in a one to one basis rather than to address, say, a whole house. Dave Geraghty, on the other hand, expressed that there was a lack of communication between the undergrads and the faculty, and that many undergrads feel uncomfortable approaching the professor outside of the classroom. He suggested that more undergraduate involvement with research would help establish ties.

Later in the discussion, the issue of communication with and

among houses was raised. An undergraduate student specifically cited the Dabney incident as an example of breakdowns in communication. Following this, there was much exchange among some undergraduates, panelists, the MOSH, and Dean Brennen. For a while, the discussion degenerated into an argument over the handling of the incident. The argument did illuminate some important facts: much of the communication over the incident was based on rumors, and not everyone knew the whole story, or in some cases had the story wrong, and *the Tech* contained nothing regarding the incident (except for the letters protesting the handling of the incident).

Another problem pointed out in the discussion was the inadequate dissemination of information to the students by the administration. One complaint was that some information relied on word of mouth to be spread, and that system was faulty and prone to picking up "noise" as news traveled.

In the second segment of the

discussion, the "fate of *the California Tech*" was discussed. Various opinions were presented on expanding or limiting the scope of the paper to cover the whole campus, or to cover only the undergraduates, and various comments were made over the lack of editorial control and uniformity in the paper. The *Inside World* was, in one person's words, "hurtful and juvenile" and failed to cover important issues. A suggestion to make *the Tech* a formal medium to disseminate information was also suggested.

The last segment discussed conflict resolution. According to the panelists, there are various ways to resolve conflicts arising between members of the community. A formal grievance procedure exists if informal attempts fail to address the problem. Students should bring their grievances to the attention of the campus ombudsman, whereas staff and faculty should speak to their supervisors. If necessary, a formal grievance committee should be formed to resolve the problem.



New??? Associate Dean

Dr. Barbara Green, the current acting Associate Dean of Students, has accepted the offer to become the new Associate Dean (real, non-acting).

Prior to coming to Caltech last fall, Barbara had been Dean of Students at Whittier College since 1977. She has a Ph.D. in counseling and personnel services from Purdue as well as a Master's degree from Columbia.

The Deans' office is delighted to welcome Barbara on a more permanent basis. They ask that you join in expressing our appreciation to her.

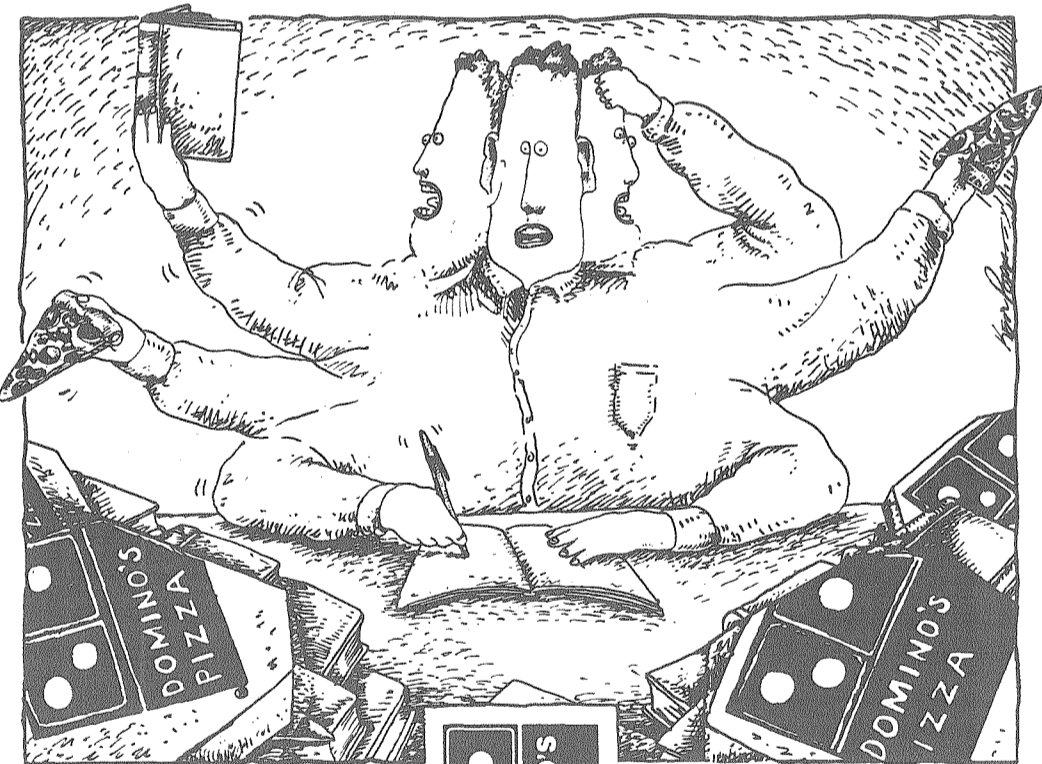
Math Honors

Several undergraduates were honored at an awards banquet in the Athenaeum in May. Jun Teng and Rhaghav Chari each received an H. J. Ryser Scholarship for next year. These grants are supported by an endowment from the estate of the late Herbert J. Ryser, who was a professor of mathematics at Caltech from 1967 until his death in 1985. Jun and Rhaghav received the awards for excellence in course work and because of the strong endorsement from faculty.

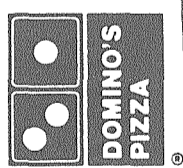
Bill Cross received a check and certificate for his outstanding performance in the Putnam Competition in May. Bill ranked in the top six. Caltech's team of Bill Cross, Robert Southworth, and Glenn Tesler placed sixth nationally. Russell Manning received a certificate for placing in the top fifty.

A team consisting of Steve Bard, Bill Cross, and Robert Southworth entered the Mathematical Contest in Modeling sponsored by the Consortium for Mathematics and its Applications (Comap). Teams are expected to do one of two problems. They entered both and received honorable mention for both.

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what goes on

money

Submit announcements for *What Goes On* 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.

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 in Dabney Hall Lounge. Dances are taught from 7:30 pm to 9:00 pm, with dancing from 9:00 until 11:30 or midnight.

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.

Logo Contest

"Ten Years to 2000: The Campaign for Women and Science" is the slogan. Have you got an idea for a matching logo? Send your ideas to the OWC, 218-51 by 15 June 1990. The winner will receive two tickets to the Pasadena Playhouse and honorary membership in the OWC.

And The Winner Is...

Linda N. Maepa, undergraduate in Geology. Oh, you want to know what she was competing in, eh? The Caltech Staff Social Team held their first Bake-Off and Craft Fair recently in Winnett Student Center and Linda Maepa won first place in the Bread category for her Sweet Dough Braid. Besides a blue ribbon, she received a spice set, courtesy of Lawry's California Center in Glendale. After the judging, all entries were cut into samples for tasting by the Caltech community. The following were the winners in all categories:

Breads—1st place, Linda Maepa; 2nd place Anne Snyder; 3rd place Randi Summer.

Cakes—1st place, Randy Mindoro; 2nd place, Annagreta Bolsey; 3rd place, Anne Snyder.

Pies—1st place, Mary Frater; 2nd place, Linda Taylor; 3rd place, Gretchen Smart.

Confections—1st place, Maria Pearson; 2nd place, Martha Anson; 3rd place, Kathleen Dutton-Laraway. Congratulations to all the winners.

Classical South Indian Music

In Professor Amy Catlin's *Musical of India* class (MU 53) there will be a recital/lecture/demonstration of South Indian (Karnatak) classical music in Baxter 25 on Monday, June 4th from 1-2:30 pm. Performers will be Geetha Ramanathan Bennett, vina and voice, and Dr. Frank Bennett, mrdangam and Kanjira. The Caltech community is cordially invited to attend. Free. For more information call Professor Catlin at x3614.

Twin Peaks Marathon

On Saturday, June 2, 1990 at 6 pm in Rm. 35 of the SAC, there will be a presentation of all 7 episodes of the dark soap opera parody *Twin Peaks*, plus the original premiere movie. This TV show has already won both critical acclaim and cult status among its fans. Donuts, cherry pie and hot, black coffee will be served free of charge. For more information, call Dave at 440-0459 or Eric at 564-8949.

BUSAC Set

The BUSAC (Biology Undergraduate Student Advisory Committee) members elected for the 1990-91 school year are: Seniors, Ajay Chheda, Ngocdiep Le, and Eugene Lit; Juniors, Karin Johnson and Jerri Martin; and Sophomores, Ingrid Choong and Yu-Chien Kuo. Congratulations.

Gay/Lesbian Discussion Group

On the 1st and 3rd Tuesdays of each month, all students, staff and faculty are invited to an ongoing discussion of Lesbian/Gay topics, from 7:30 to 9:00 pm. After the talk, time is devoted to informal talking, with refreshments provided. This confidential meeting is held in the Health Center Conference Room; call x8331 for further information.

Kids' Arts-n-Science Fair

Saturday, June 9, 11 am to 2 pm, Tournament Park. Featuring arts and crafts to make and take, science projects and experiments, superconductors, liquid nitrogen demonstrations, astronomy experiments, frog-jumping contests, clowns, balloons, and lots more. Special activities for toddlers. Lunch available. \$3.00 suggested donation for kids over 2 (parents free). For kids 1½-12 years old. Sponsored by the CWC.

Learn Karate This Summer

Learn to develop physical and mental strength, concentration, discipline, and confidence through the study of karate-do this summer.

The Caltech Karate Club, the oldest university karate club outside of Asia, is offering to all members of the Caltech Community (students, faculty, staff, spouses, JPL, alumni) introductory and intermediate classes this summer. Classes will meet at the football field MWF 5:30-6:30 pm for introductory, 6:30-7:30 pm for intermediate, starting Monday, June 18. The membership fee is \$20 for this summer. For more information please contact Sy Shimabukuro, x4165, Dave Gabai, x4382, Ed Lee, 405-0668, or Phil Tokumaru, x4461.

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.

Badminton, Anyone?

Badminton is played on Mondays and Fridays in the gym, from 9 am until 11 am. Intermediate players (faculty, staff and students welcome). For information, please call Cherrie Leighton, x4915, Division of Biology.

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.

International Day

Are you ready for free food, great entertainment and an evening to celebrate Caltech's cultural diversity? Stop by the Winnett Courtyard between 4:30 pm and 9:00 for 1990's International Day. Sponsored by Student Affairs, the President's Office, Caltech Y, ASCIT, Caltech Service League, Alumni Association, International Desk, and the GSC.

Submit To The Totem

An effort is now underway to produce another issue of *The Totem*, the Caltech literary magazine. In the past, the main barrier to publication has been profound apathy (i.e., submissions have been about a tenth that required). This is a plea for all interested students to submit their art, poetry, and short fiction or, at least, to offer suggestions. Please include your name, campus address, and phone number. Submissions to Ben Schaeffer, 1-59, x6173.

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.

Summer Job Frodo-ing Iris

Professors Bjorkman (Biology) and Rees (Chemistry) are looking for a biology or chemistry major with computer experience to install a molecular graphics program (FRODO) on a personal Iris. The student will be expected to learn how to display proteins and nucleic acids using FRODO, and then write a manual for students taking a protein structure course this fall. (A manual for FRODO already exists, but is not written for inexperienced users.) The applicant should have some computer experience and knowledge of protein and nucleic acid structure. A possibility also exists for the student to study aspects of protein structure currently being worked on in our laboratories. If interested, please contact Pamela Bjorkman (x8350) or Doug Rees (x8393).

Spring Glee Club Concert

Tickets for the annual Spring Concert of the Men's and Women's Glee Clubs are now on sale. The June 2 performance in Beckman Auditorium will feature both Glee Clubs as well as the men's Barbershop Quartet and the women's ensemble, Clef Hangers, in a musically diverse program ranging from renaissance madrigals to American spirituals. The glee clubs will be joined in their final medley of Andrew Lloyd Weber's hits by a group of Caltech dancers—Anna George, Amanda Heaton, Samantha Seaward, Joe Andriu, Cliff Kiser and Joe Beckenbach. General admission to Spring Concert is \$7; students, \$5. There will be a reception (free food) after the concert. Come on out and support your friends in the Glee Clubs on Saturday, June 2.

Health Advocate Program

Interested in being a Health Advocate for next year? Application and course information are now available at the Student Health Center. All students interested *must* fill out an application and be interviewed in September, before fall term begins. This course is *not* open to freshmen. The Health Advocate program is PA 50, a three-term commitment and is open to students living on campus. Please contact Lori Mulvany at the Health Center, x6393, if you have any questions.

Student Organization Funding

Student organizations applying for Alumni Association funding for 1990-1991 must do so before June 22, 1990. Applications are available at the Alumni House, 345 S. Hill Ave. Funding is approved by the Student/Faculty/Alumni Relations Committee of the Association Board of Directors. The awards will be made in the fall of 1990. For more information, please contact Karen at x6593.

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.

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).

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.

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.

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.

Jewish Family and Children's Services is offering financial support for Jewish individuals and their families. Applicants must be permanent residents of San Francisco, the Peninsula, Marin, and Sonoma Counties.

Software Scholarship

The Green Hills Software Corporation has announced the availability of one-year \$5,000 Computer Science Scholarships. These three scholarships are to be awarded to juniors and seniors with an interest or experience in computer science. For more information and/or a Green Hills Scholarship application, please contact the Financial Aid Office at 515 S. Wilson. The deadline for submitting the application is TODAY, June 1, 1990.

Career Development News

JPL has a summer job available for a sophomore or junior in ME or CE with a strong background in applied mechanics to do programming in Fortran. Some experience in finite element analysis of structures is preferred. Contact C.P. Kuo at 354-4246.

JPL has two more summer jobs available in the Image Processing Laboratory. Math, physics or computer science background. Must have some programmer VAX/VMS background. Contact Michael Girard at 794-2386 or 354-3237.

The U.S. Department of State announces the annual Foreign Service Written Examination to be held on October 27, 1990. The written exam is the initial step in competing for a career in the Foreign Service of the United States. Deadline for receipt of application is September 21, 1990. Call 1-800-JOB OVER(SEAS) to obtain an application.

AT&T is trying to fill several hundred Member of Technical Staff positions, mostly located in New Jersey and Illinois. Candidates should have a BS, MS or PhD in EE, Systems Engineering, Computer Engineering/Science, Industrial Engineering, or Operations Research and have a strong academic performance record.

Hughes Ground Systems Group is in the process of expanding its Operations Research and System Analysis capabilities. As part of this effort they are looking for recent and prospective graduates in Operations Research, Applied Mathematics, Physics, or Engineering Science.

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.

Scottish Texan In Winnett

The Caltech Folk Music Society presents its season finale on Saturday, June 2 at 8:00 pm in Winnett Lounge. Ed Miller, originally from Edinburgh and transplanted to Austin, Texas, will be performing a mixture of new and traditional music from both his backgrounds. Tickets are \$8.00, but only \$4.00 for Caltech students. For reservations or information, call (818) 356-4652.

Chamber Ensembles

The Caltech Chamber Music Ensembles will present their final concert of the year on Sunday, June 3 at 3:30 pm in Dabney Lounge. The program will begin with Beethoven's "Quintet for Woodwinds and Piano, Op. 16", followed by Aaron Copland's "Quartet for Piano and Strings." Concluding the program will be Glinka's "Trio Pathétique" for clarinet, bassoon and piano, and Dvorak's "Piano Quartet, Op. 87." Admission is free and refreshments will be served. The performers are Caltech undergrads and graduate students, and the concert is sponsored by Student Affairs.

NeXT Campus Consultant

You've seen my announcements, and you're probably wondering who I am. Well, I'm Carlos Salinas, a CS major, and the NeXT Campus Consultant for Caltech and JPL. That means that if you have any NeXT-related needs, contact me. Also, if you or your department are interested in seeing what the NeXT can do for you, contact me and I'll give you a private demonstration. Internet (NeXT-mail) address: carlos@eeyore.caltech.edu DECnet/HEPnet/SPAN address: romeo::carlos. Or call campus x6830, but EMail preferred and most effective. By the way, if you own a cube, contact me ASAP. Thanks!

Decompression


Volunteer for Decompression this year (June 9 & 10, 7:00 pm to Midnight) and receive a free T-shirt (minimum two hours required). Stop by the Y today and sign up!

Saints And Other Sinners

Kind Crone Productions, in cooperation with Caltech Public Events, will present storyteller Milbre Burch in "Saints and Other Sinners" on Friday, June 1st at 8:00 pm in Ramo Auditorium. The performance is free and open to the public.

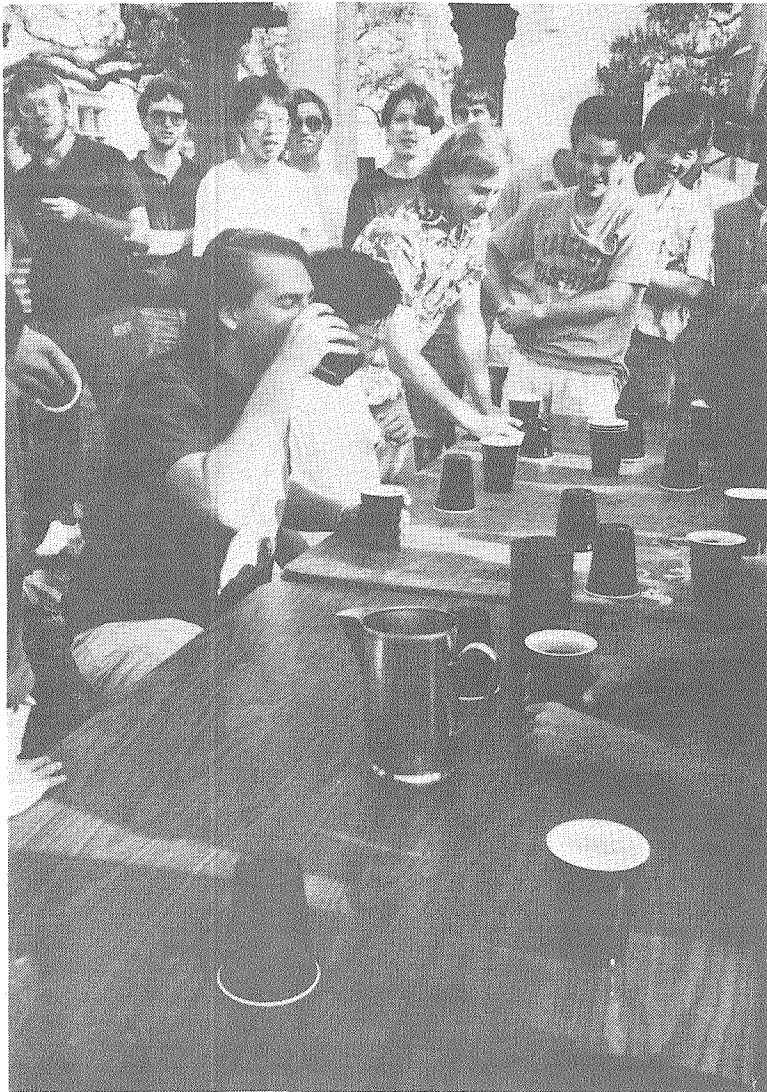
"Saints and Other Sinners" is an evening of storytelling theatre for adults. The show is comprised of six dramatic monologues and three narrative saint stories taken from world literature, a powerful evening of theatre. [One of the Tech staff had a chance to see this show in January—it was great!]

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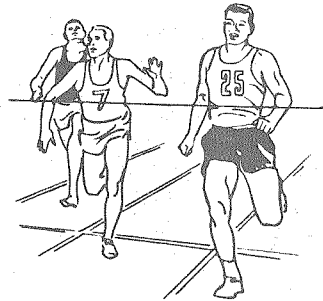
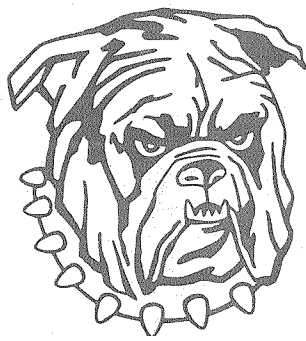
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Many onlookers watch Steve Carson drink for Lloyd in last year's crew race.



Club Homeboy

Event	Participant	Overall Place	Division Place
Zuma Beach Biathlon	Chris Campo	76/389	19/68
Zuma Beach Biathlon	John Pham	Crashed	--
Santa Anita 5K Road Race	Mike Mahon	15	8
Coors Light Irvine Biathlon	John Pham	57	20
Coors Light Irvine Biathlon	Chris Campo	58	21
Coors Light Irvine Biathlon	Mike Mahon	78	29

Upcoming Events		Entry Fee
June 2nd:	PCC/Rose Bowl 5K Race	\$ 15.00
June 9th:	Fontana Biathlon	\$ 22.00
June 13th:	LA Heart of the City 5K	\$ 15.00
June 23rd:	City of Rosmead 5K/10K	\$ 10.00
July 15th:	US National Biathlon Championship	\$ 35.00

Crew Today

The annual crew race is today at 3:30 pmon the Olive Walk between the North and South Houses. Blacker, which won last year (and the year before and the year before that...) is in charge this year. Any team of ten can enter. There will be alternative drinks to compete with (Kool Aid?) for the weak of stomach.

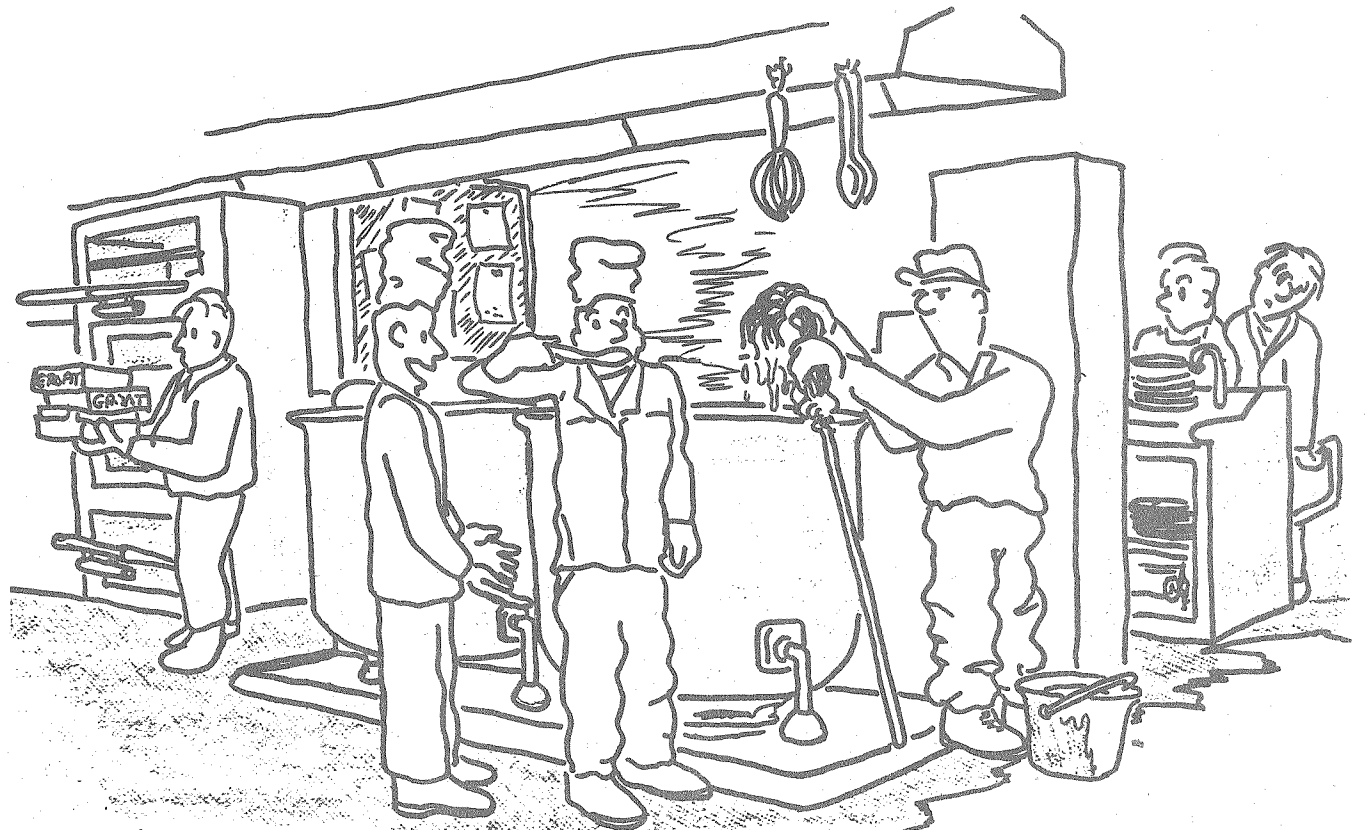
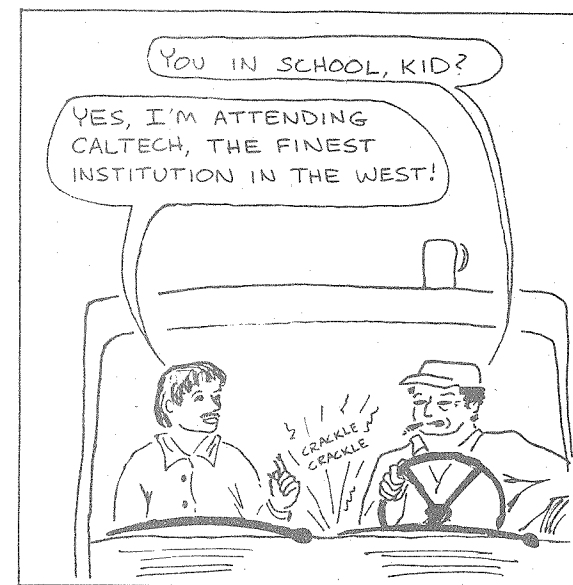
photo by Craig Sosin

CLUB HOMEBOY



SPARR!

THE ASCIT TRIATHLON SQUAD



GOSH, I DON'T KNOW HOW IT HAPPENS, EITHER.... BUT YOU GOTTA ADMIT, IT DOES ADD TO THE FLAVOR!

TJO '91



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 40-58 SAC CALTECH
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