

## Stanford President Speaks at Visions Symposium

Staff Writer

Dr. Donald Kennedy, president of Stanford University, was the featured speaker at Tuesday evening's portion of the week-long symposium entitled "Visions of a Sustainable World." He spoke on the topic of "Social and Political Challenges to Higher Education in the 1990's." For most of an hour, Kennedy addressed the current state of universities in the United States and proposed ways in which the ideal educational system of the 21st century might be realized.

Kennedy received his bachelor's and doctoral degrees from Harvard in 1952 and 1956 respectively. His has been a member of the faculty at Stanford since 1960. He was chairman of the Department of Biological Sciences from 1965 to 1972, and Chairman of the Program in Human Biology from 1973 to 1977. He was Commissioner of the Food and Drug Administration from 1977 to 1979. He has held his current position since 1980.

Kennedy's position as speaker was both awkward and appropriate. Certainly he has acquired a keen insight into the problems of major universities during this past year as head of Stanford. He has undergone intense questioning as to accounting sleight-of-hand that has occurred in research overhead expenditures at the university. The discovery of these discrepancies has led to a series of subsequent investigations at other sites, leaving few major research institutes, including Caltech, untouched. The publicity of the congressional subcommittee investigation which en-

sued most likely played a large factor in Kennedy's decision to resign as head of Stanford effective the end of this school year.

Although devoting a notable portion of his talk to defending Stanford and himself, Kennedy did present several interesting topics for consideration. He noted that universities must win back the trust of the public in order to effectively provide national leadership. This trust was lost, it was hypothesized, due to growing impressions that the nation's academic centers have "become special interest groups in their own right," and that they have been too easily influenced by pressures to produce marketable ideas and products.

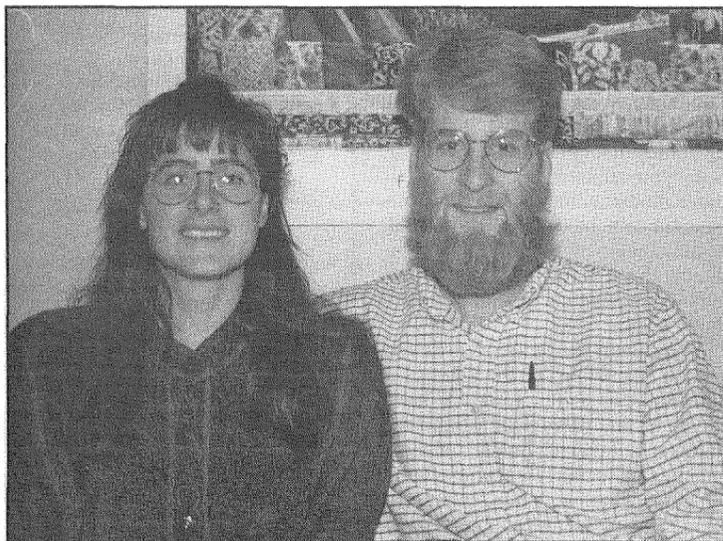
Indeed, the idea was advanced that not only is the drive to produce research in quantity harmful by deterring faculty from teaching the next generation of researchers but it is also not as useful to the economy of the United States as might be believed. In contrast to the usual cry for more students enrolled at the graduate level, Kennedy warned of the dangers in having too many doctoral candidates, mostly producing substandard work.

Tying his thoughts in with the symposium's call for sustainability, Kennedy foresaw a system of higher education which concerns itself less with forming business consortia and filling journals with articles and more with educating undergraduates and producing smaller quantities of quality research. Otherwise, he argued, major research universities are borrowing against the future just as surely as short-sighted corporations do.



Blacker R. A.'s Ken and Michelle Apperson's picture mysteriously missed last week's issue. We saved it for Halloween!

Photo by Rajan Ranga



Doug and Becky Yule relax in their plush R.A. suite.

Photo by Rajan Ranga

## New Ruddock R.A.'s

by Rashan Kumar

So there you are, standing in the pouring rain watching the disco football challenge between the Rudds and the Lloydis, when all of a sudden this tall, very bearded man comes hurdling out of the fog and dives towards your own comfortable position on the sideline, football firmly in his grasp.

You ask yourself, "Self, who is that bearded man?"

Little do you know it, but you've just had a first encounter with Doug McGrew-Yule, one-half of the new Ruddock RA team of Doug and Becky McGrew-Yule. The two are coming to us from beautiful Boulder, Colorado, where Doug worked for an oil company and Becky earned her Master of Arts from the University of Colorado.

"We met at a frat party," re-

calls Becky of their days in Pomona College where they first got to know each other. That was almost nine years ago, and they have been husband and wife for six and a half of those years.

"We sort of take turns," say the two, "with one of us going to school while the other one works." Currently, it's Becky's turn to be the breadwinner. She is employed at the Museum of Contemporary Art, working in the Curatorial department while Doug begins his third year as a Caltech graduate student in geology.

"I played football on the [club] team for a couple of years," says Doug, "and so we became friends with a number of undergrads. Getting to know them better as an R.A. seemed a good idea." He adds, "I'd like to become a professor someday, and I don't want to lose touch with

the undergrads when I'm a graduate student."

Becky brings a somewhat different point of view to her job. "Since I'm not a student here," she says, "I'm not an expert on what the courses or workload are like. On the other hand, I think I can offer a fresh perspective if someone needs it."

Both of them feel that being RAs has put them in closer touch with the campus and its quirks. "Caltech's a very unique place," says Doug, "and I'm always struck by the number of traditions around here. A lot of things are done in a certain way just because they've always been done in that way."

Coming to Caltech for the first time provided a few surprises for both husband and wife. "Growing up in Valencia," says Becky, "there was always this image of Caltech students as being real brains, and somewhat nerdy."

"But," concludes Doug, "they're just normal college kids, really - maybe a bit more creative in certain things than most, but really just normal people."

The new RA's are settling into their house quite nicely, describing it as being "friendly and social." They see their role here as being to "primarily try to make the students lives easier, and to...look out for the interest of the people here."

They have already hosted a number of Alley desserts and taken a trip to see Christo's umbrellas (the morning of the fateful accident) and are planning hikes, museum trips, and beach journeys for the future.

"We want the students to think of us as kind of an older brother or sister," says Becky, "with connections to the administration."

(Oh, by the way, with Doug at QB, Ruddock won the football game. Surprise, surprise.)

## A Bit of Caltech's History

by Judith Goodstein

...On the morning of October 1, 1918, nearly three hundred inductees and students gathered in front of the campus flagpole. Scherer, [one time president of Throop College,] welcomed them with a stirring patriotic speech. "Soldiers of the United States Army," he began, students of Throop College of Technology: This is the brightest day that the world has seen for more than four years. Not since the first of August, 1914, has the sun of civilization shone as it is shining today. Bulgaria out of it, Turkey staggering, Austria-Hungary tottering, and Germany cold to the marrow with fright.... America has won a new self respect. Old Glory shines with a new luster. Our boys "over there"... are fighting as though the war were to be over by Christmas. We here must prepare as though it were to last twenty years.

Forty-two days later, however, the war was over. The SATC [(Students' Army Training Corps)] was soon legislated out of existence, and by December 1918, soldiers were being demobilized directly from the college. It seemed that Scherer's dreams were dashed, but not entirely, for peacetime ROTC units sprang up on college campuses across the nation, including Throop's.

The educator Scherer's Christian crusade for America, and his war games on campus, threatened Throop's development. Tailoring its own curriculum to the government's program, Throop had already gone the full route. It had abolished modern-language instruction, added a course on the causes of the war, and eliminated others in history and economics. On top of that, the SATC men had been sent to work in the kitchen and in the commandant's office, filing papers. Collegiate work suffered, in part because the heavy military load cut into the normal academic schedule, in part because many of the students were primarily interested in military training. "We have had no college spirit," Scherer groused, "...and there has been a military spirit, which is all right in war time but is not so fine nor uplifting." But he refused, even so, to abandon military training at the college. The one bright note about the SATC program came from the director of physical education, who observed "that military training had put...[the football team] in splendid physical condition."

In less splendid condition was the academic life at Throop. Rumors began to circulate that many students, particularly the freshmen, were planning to withdraw from the school at the end of the first semester in 1918. Like others on the faculty, Edward ("Ned") Barrett, business agent, vice-treasurer, and de facto president of Throop during Scherer's wartime absence, feared for the college's future. Choosing his words carefully, Barrett urged Scherer to put the war behind him and behind the school....

Talk to the freshmen, he pleaded with Scherer; "tell them what Throop is, what our courses are, and especially of your determination that the military work in the future shall not take so much time as to prevent genuine college work." Within days, Scherer had talked personally with the undergraduates. Anticipating a 25 percent drop in enrollment, the college notified high schools of its intention to admit "properly prepared students" to a midyear class, starting in February.

Despite Barrett's misgivings, enrollment had climbed steadily during World War I. In 1914, attendance at the college jumped from 58 to 91 students; in 1915, it reached 129, rising to 185 the following year. When the student population dropped from 155 to 135 during the first semester of 1917-18, the college admitted a new freshman class in February 1918 (a practice continued until 1921), raising the total for the year to 193. Operating under a year-round schedule during the war, the college graduated two classes in 1918, leaving no seniors on campus in 1918-19. "We have 230 students actually in attendance," Scherer wrote one trustee in 1919, "and the outlook for the next year is almost depressingly promising. I seriously contemplate recommending to the Board [of trustees] limiting the attendance to 300 hand-picked men."

Regardless of the number, Scherer's talk of limiting the college's enrollment raised fundamental questions about its future. Extrapolation from the growth in enrollment since 1910, Barrett estimated in 1916 that the number of students admitted to the college would reach 500 by 1921. He made up a budget for the college; it did not include the cost of new building or the cost of doing research. Figuring on a faculty of seventy, an average professorial salary of \$2,045, and modest outlays for upkeep and equipment, he projected \$200,000 in annual expenses. In 1916, the cost of attending the college was \$150; even at that rate, tuition for 500 students would bring in only \$75,000, far less than the projected cost of education a student five years from then. Where would the remaining \$125,000 come from?

From endowment. The arithmetic was simple enough: 5 percent interest on \$2.5 million. The college then had, according to Barrett's records, "an endowment fund for general support of \$500,000." It needed \$2.0 million additional endowment, if his calculation were correct. Who would provide it? In late 1916, Arthur Fleming became president of the college's board of trustees. Like Scherer and other school officials, Barrett assumed that Fleming, a self-made millionaire, would provide it.

By the turn of the decade, Throop's enrollment stood at 337 students. Scherer thought the time had come to put a cap on the student body, because the assembly room had reached its capacity. Noyes thought the time had come "to remove the name Throop and...attach to the Institution the name of the great state of California." Hale thought the time had come for Throop to become the scientific school of the future. "It is merely a question of policy and men," he wrote.

In early 1920, at one of his regular weekly student assemblies, Scherer broke the news that the college had changed its name to the California Institute of Technology. Someone from the back of the room called out, "Hooray from Caltech!" "Oh please, don't abbreviate it," Scherer pleaded with his audience. His words were destined to be ignored.

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# letters

## Regarding David Goldberg

To the editors:

This past June, sophomore David Goldberg was put on probation following Dean Brennen's receipt of two letters from the Director of Residence Life, Kim West. These letters accused Dave of three things, one of which was dismissed. The first of the other two concerned David calling Ms. West a "bitch", as required by the Ditch Day stack on which he was working. The second involved a statement that was taken by Kim West as threatening. This "threatening" statement was, "We shouldn't be going after you." This was in reference to the housing shortage and the problem with room picks in Page House, where "them" referred to the Page House Excomm. This was a political statement and not a physical threat.

During Dean Brennen's handling of this situation, David felt that the dean was not considering any explanations David had to offer concerning his actions. The dean also suggested that Dave seek psychological counseling. After being placed on probation, Dave spent several days attempting to have the sanctions placed on him reconsidered by the dean. After what David thought was an unfair treatment of his requests, he decided to file a grievance against Dean Brennen.

This prompted a series of meetings between David and Dr. Gary Lorden, the Vice President of Student Affairs. These meetings, each about two hours in duration, took place weekly for the entirety of the summer. The official purpose of these meetings was to investigate the facts behind the grievance. Due to the large number of meetings involved, it appeared to Dave that the purpose of the meetings was to discourage the use of the grievance procedures.

After returning to campus this fall, David assisted a student with moving planting boxes to the 150 S. Chester apartment building using an electric cart. Although the students fully intended to return the cart, its use was not approved. When a security officer saw the students using the cart, he said that the students could continue, and asked them to return the cart when they were done moving. After being told by the security office that Dave used a cart, Ms. West called Dave into her office. There she explained to him that because he was on probation, involved with borrowing the cart, and had failed to return her communication attempts late that summer regarding another incident involving excessive noise in the Page House courtyard, she was going to remove him from Institute housing. At the end of the summer, Dave was home in New York, and did not receive notice of her attempts.

David was told to leave Institute housing on a Thursday. The following Monday, he went to see Dr. Lorden both to complain about his removal from housing and to continue his grievance against the dean. Upon entering Dr. Lorden's office, Dave sat down and made a statement in which he compared himself to Elliot Ness. In the statement, Dave pointed out that he was emulating Ness in using the proper legal channels as opposed to violence to solve his problems. Within seconds, Dr. Lorden threw David from his office in a fit of rage. David was called back to Dr. Lorden's office the following Wednesday. At this meeting with Dr. Lorden, Dave was informed that Dr. Lorden considered his statement a threat to the Institute. He was also told that Dr. Lorden was considering recommending to Dean Brennen that Dave be forced to take a leave of absence.

In order to establish whether or not Dave was a threat, Dr. Lorden vehemently requested that Dave undergo psychoanalysis. Dave was also told to get extensions in his classes because this process was going to take a lot of his time. Eight days later he was told that he was banned from Page House until further notice. It was never made clear to Dave exactly why this action was taken. The examination alone took a full day. As a consequence of this and the numerous meetings, David has fallen behind in several of his classes.

We believe that the way in which Dave's situation was handled is unjust and improper in a society that prides itself on people's rights and freedoms. We are enraged not only by this situation, but also by its implications. The way in which Dave was treated is practically inhumane. Any reasonable person would be insulted at the suggestion that he/she be subjected to psychoanalysis. Dave was particularly insulted after his words were so grossly misinterpreted by Ms. West. Also, Dave inferred that if he did not submit to the test, he would be forced to take a mandatory leave of absence. Regardless of Dave's inference, the psychoanalysis is supposed to decide whether or not Dave is allowed to maintain his student status. We feel that this form of punishment should be reserved for people who actually constitute a threat to those around them. While Dave is guilty of expressing his opinions loudly and honestly, he does not pose a physical threat to anyone around him.

The events leading up to the psychoanalysis are no better. Dave's minor infractions were dealt with very severely. This is evident when considering the incident involving the electric cart. It is true that Dave is guilty of taking the cart. However, he was later given approval by the security officer. If he was asked to return it, he most certainly would have. For this, he was removed from Caltech affiliated housing.

None of this is more inflamma-

tory than the implications this situation has on undergraduate life. We would like to think that someone like Dave could not possibly receive these types of punishment, because Dave is a very typical Caltech student. Other students participated in every action that Dave was apparently punished for. However, none of these students were dealt with as severely as Dave was. In fact, in some occasions, students were not even warned against repeating their actions. It seems that Dave has done nothing that other people have not done, except file a grievance. This means that any and all students can be treated in the same unjust and improper manner.

We are not trying to libel anyone. We are merely seeking a fair resolution to this situation. We have attempted to present the facts in a fair and unbiased manner. It should be noted that the facts have been seen from the viewpoint of a student (Dave Goldberg) and may differ when seen from a different viewpoint. It is our opinion that the Caltech community should be fully informed about cases as controversial as this one. If, after reading this letter, you feel strongly about this situation, please write to any, or all, of the following people:

Dr. Gary Lorden  
Vice President of Student Affairs  
Caltech 108-31  
Pasadena, CA 91125

Dr. Chris Brennen  
Dean of Students  
Caltech 102-31  
Pasadena, CA 91125

Ms. Kim West  
Director of Residence Life  
Caltech 115-51  
Pasadena, CA 91125

Students Concerned with D. Goldberg  
c/o Bryce H. Elliott  
Caltech Box 853  
Pasadena, CA 91126

Bryce H. Elliott  
Thomas M. Fink  
Dan Y. Frumin  
Joseph L. Long

[The Tech encourages an opposing viewpoint or response to this letter from the administration. —Eds.]

To the editors:

Last week, Cathy Hafer, Chairman of the Board of Control, wrote a letter to the *Tech* in response to the removal of C.L.A.G.S. posters the week of October 16. While encouraging discussion about what kinds of posters are appropriate where, (a complicated and important issue), this letter fails to mention whether the BOC found this particular action to be an honor code violation. Removal of C.L.A.G.S. posters is a blatant act of discrimination against the gay and lesbian community at Caltech. Discrimination against any minority group

hurts the whole community, not just that particular minority group. I feel strongly that this is a serious honor code violation.

Alice Quillen, G.R.B. rep.

Dear Eds.:

In the *Tech* issue of Oct. 25, Cathy Hafer, chairman of the B.O.C., discusses the removal of posters put up by the Caltech Lesbian and Gay Society, and requests reactions.

We strongly condemn the defacement and unauthorized removal of any posted notice put up by a campus organization. We view such actions as violations of the Honor Code.

The CLAGS posters were neither inappropriate, nor put up in inappropriate places. Taking down such posters amounts to depriving a campus organization of the right to assemble.

Yours,  
Pieter Hazewindus, GRB Rep., CS  
Bobby Bodenheimer, GRB Rep., EE  
Mark Looper, GRB Rep., Physics  
RuthAnn Bertsch, GRB Rep., Chem.  
Nathaniel S. Finney, GRB Rep., Chem.

Thomas Herbig, GRB Rep., Ay  
Celeste Chang, GRB Rep., AM  
Tyler R. Holcomb, GRB Chairman

## Motorcycle Helmets

Dear Editors:

Despite Caltech's small size, too many of us respond to things we hear and read without going to the source. So I'll try to introduce myself to Jason Surace before I send this letter. Jason responded to Marty Gould's short, heartfelt, and (in my mind) correct thoughts about wearing motorcycle helmets, without knowing Marty or his background. As a result, he insulted Marty's intelligence, impugned his motives, and, finally, missed his point.

Jason, Marty has "explored this issue in... depth." His "knee-jerk" reflexive response" (a bit redundant for effect, Jason?) comes from hundreds of thousands of miles of riding over a couple of decades. If you'd visited Marty in his Mechanical Engineering Shop in Spalding, you would have found that he rides a Suzuki to work every day. And he would have told you that he doesn't like compulsory helmet laws either. See, you missed his last line. If more motorcyclists made the intelligent choice, based on a considered, honest (scientific) look at the evidence, there wouldn't be compulsory laws written by antagonistic legislators.

You distort the facts, even as you accuse Mr. Floyd of the same. I'll address your points, one at a time:

There are plenty of open-face helmets to buy, if you choose one, and the California law accepts them, so far as I know. Your statements about loss of peripheral vision and hearing are untrue and discredited long ago, and you should know that from experience if you've ever worn one. Unless you are wearing a helmet that doesn't fit, or you have some sort of abnormally wide range of vision, a helmet does not intrude

on your vision. Also, anyone who has ridden more than ten minutes at over 30 mph knows that the air blast in your ears has an order of magnitude greater effect on your hearing than the muffling effect of a helmet. Flatly, a helmet improves your hearing. Even "Centerstand," the Public Radio motorcycle program which is your greatest advocate, disavows these specious arguments. And your suggestion of wearing a helmet in a car to prove your points is illogical because the conditions aren't the same.

You say the benefits of helmets are "only perceived." Statistics on injuries per mile driven, with and without helmets, including all types of injuries, show that your perception is distorted by your desire to justify riding helmetless. Helmets prevent minor and major trauma and do not contribute to the rate of accidents. Then you use the oblique and indefensible argument that they won't help if you aren't wearing other protective clothing. By analogy can you conclude that you aren't safer wearing seatbelts in a car crash if you don't have airbags?

Finally, a good helmet should be figured into the cost of buying a motorcycle. If you can't afford the extra \$100 to \$250, you can't afford to ride. If you buy the helmet and wear it, you won't be fined or assessed the "outrageous" points on your license, so that part of the economic argument disappears.

Jason, the last thing we need is more governmental involvement in decisions which should be ours as intelligent, responsible citizens. That was Marty's point. As one who spends his professional life teaching you and your friends how to safely and skillfully turn your ideas into reality (he won an ASCIT teaching award last year by vote of your fellow students), Marty was trying to go one step further and urge you to protect those ideas inside their very fragile container. Go

continued page 3

## THE CALIFORNIA TECH

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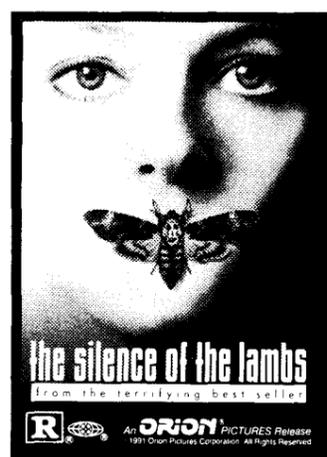
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SKIN DEEP

**Editorial**

**Jon Liljeblad**

Peace in our time. Everybody will admit to desiring peace. Whether it be within their lives or in the society around them.

Currently in Spain a conference is being held between the representatives of Israel, Syria, Lebanon, and Palestine, with delegates from the United States and Soviet Union presiding. This meeting of bitter enemies is being hailed by the news as a watershed in modern Middle East history, if for no other reason than the fact that these nations have actually decided to even attend such a conference. With the ostensible purpose of coming to some resolution between the Arabs and Israel regarding the nations of Palestine and Israel, the representatives are expected to be able to bypass their respective histories for the sake of a more peaceful future.

But will it work? Granted some effort is better than none, and granted too that these countries just by sheer presence at a single table are advancing the situation by light-years. The fact that the Israel has a seat directly opposite Palestine speaks volumes about the atmosphere (Israel actually recognizing Palestine? Palestine actually willing to deal with Israel face to face?).

As hopeful as this may all be, however, it still does not evince any characteristics of a complete palliative.

We in the United States are in many ways blessed by the fact that we do not have a long unified history. Our scant two hundred and so many years on this continent affords us the luxury of having relatively shallow social and economic divisions—shallow in the sense that they have not been with us simmering for too long. Unlike the other nations, we do not have to deal with inimical emotions spun off from deep fractures within our society.

In the Middle East, on the other hand, more than perhaps anywhere else on the globe, one must deal with the internecine conflicts and outright tribalism that have fed each other in a frenzy since the dawn of recorded history. Indeed, the sons of Shem and the children of Israel have essentially been at odds imemorial. In many ways, the spirit of conflict has become an integral part of their existence, producing in cyclic pattern the notions of ethnic honor, family unity, religious zealism, and above all the justice of vengeance for the sins of one's father. "An eye for an eye, a tooth for a tooth," as the saying goes.

This is their strength, and also their downfall. Within their sense of history, family, and identity they have the power of unity and a fraternal emotion. Tied together by religion, culture, and the legacy of their ancestors, the people in that part of the globe have the resource of heritage which is stronger than most others. But ironically, the very legacies left to them are proving the source of their undoing. Like climbers on a cliff wall tied together en masse, they must all share the fate of mutual destruction or common triumph. Thus, any action by one's brother calls for action on his behalf by his relatives, regardless of the morality of the cause or the rationale within the reasoning—history demands it, the family requires it, and in many cases religion glorifies it. This is the way it has been done, it is the way it is being done, and it will probably be the way it will be done.

Can one ignore the past? Can one say "STOP!" and forget the actions of ancestors? To do so risks a loss of heritage and thus identity, a complete eradication of what and who you are as an individual and as a nation. To not do so confines one within the tight prison of precedent and tradition. It takes a vision, a promise, and uncommon strength to make the decision and navigate the storm that is the vast gale of cultural division.

It is debatable whether or not delegates in a conference room in Spain can bridge the abyss between peoples created by the millenia—if these few men can overcome the giant barriers erected by their tribal ethos and histories. No resolution will last unless all agree to it. No accord will sustain itself unless all parties choose to do so.

I can't predict the future, so I don't know if there will ever be peace. But this step was the first one. How much energy does it take to continue and finish this trail? "With each link the chain is forged."

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Helmet letters from page 2 meet Marty, apologize to him, and listen to his passionate, but rational, reasons for wearing a helmet. I hope that your equally passionate, but demonstrably unsupportable, objections will give way to reason.

Enjoy your bike. Fight for motorcycling on the issues which really matter.

Elliott Andrews  
Division of Engineering & Applied Science

Dear Editors:

This is a response to last week's letter regarding the new California helmet law, by Jason Surace. Several rather blatantly incorrect statements were quoted as facts. Although my personal feelings about the motorcycle helmet law are mixed, I cannot let these "facts" lie unquestioned! The following claims are made, with my response following each:

- 1) Full face helmets obstruct peripheral vision and hearing, resulting in a loss of vehicle control. Response: In fact, a correctly fitted full face helmet does NOT interfere with peripheral vision while looking forward. They are designed with a larger field of view than nearly anyone possesses while looking forward. They MAY force a slightly greater head-turn to check to the sides or rear. In addition, the wind noise experienced by a helmetless rider on an unfaired motorcycle at highway speed is approximately 120 Db (Motorcyclist magazine, Nov. 91, p. 36). This is well above the level which can cause hearing impairment under sustained conditions. A helmet reduces wind noise and 'signal' in equal proportion; one hears no worse at speed with a helmet than without. Under low-speed conditions, a helmet DOES reduce hearing sensitivity. Of course, closed windows in a car do

**X Divided by Four**

by Zack Berger

Tarantino's, Thursday night. Company being in a pleasant stupor, and the bill was brought. To the right, a man with a mustache, and two women - he called them "girls," which they looked too wrinkled to be. Pretty obnoxious - wearing a Michigan sweatshirt. Anyway, the bill was brought. Analysis of the bill revealed five entries, one for each of the assembled company, one tax. The bill added up to some number, X, which was not divisible by four. (These are Caltech students.)

- A: Let's see - X divided by 4 is . . .
- B: It doesn't divide.  
A: . . . is . . .  
B: Doesn't divide.  
C: What did we figure out each of us had to pay?  
D: Whatever X divided by 4 is.  
B: (insistently) It doesn't go into X.  
A: . . . is . . .  
B: I'll pay for the meal, and you'll all pay me back.  
C: So you're going to pay - what?  
B: (Mentions a figure.)  
A: Which means we'll have to pay you back . . .  
D: Whatever X minus that num-

- ber -  
A: . . . which is . . .  
C: Or I can pay, and you guys can pay me back.  
D: Why don't we just stick with B.  
B: (Has figured it out.) So you pay me this much . . .  
(B pays bill. Rest of company reimburses B for trouble. Wallets, purses, etc., put away.)  
C: Wait! What about the tip! (Company groans.)  
A: She did a pretty good job. Let's give her . . .  
B: What's there to do? All she had to do was . . .  
A: . . . fifteen percent, or . . .  
C: Yeah, but they have such a hard job.  
D: Ten percent max.  
A: . . . or . . .  
B: (Pulls out a bill.) Look we'll all give her a dollar, and it'll be all right.  
D: (Pulls out a quarter.)  
B: (Frustrated, pulls out a wad of money and leaves.)  
(Company leaves.)  
Somewhere, deep in a neighborhood of Pasadena, a waitress is counting her tip money and expressing unfeigned love for a few poor, confused Caltech students.

the same.  
2) Open-face helmets are not widely available.  
Response: NOT. Go to Pasadena Suzuki-Yamaha on Colorado. Open helmets are available AND cheaper than full face helmets. In fact, they are available by mail-order for as little as \$50 (Bieffe B5 Solid, from Chaparral, San Bernadino, CA) My understanding of the California Helmet Law is that open-face helmets ARE allowed. (I hope so; the California Highway Patrol uses

3) Motorcycle collisions are "almost certainly helped" to occur by helmet use.  
Response: The majority of motorcycle accidents are single-vehicle accidents; i.e. no other vehicle is involved. Loss of control (due to panic or inexperience) or loss of traction (due to oil, sand, or water on the road) are common causes. Would these accidents occur if no helmet was worn? Wind causes vi-

See letters page 4

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# letters

Helmet letters from page 3

sual distortion far in excess of any limitation created by a helmet. Glasses alone allow considerable amounts of wind to reach the eyes. In addition, the most common car-motorcycle accidents are caused by cars turning left across the oncoming motorcyclists' right-of-way. The CAR does not see the MOTORCYCLE. The motorcycle generally can see the car all too well. Much more data is available in the Hurt Report, in which results of hundreds of motorcycle accidents are analyzed.

4) A helmet "will certainly be of little or no use...if he or she is not wearing heavy boots, gloves, pants, and a strong jacket." Response: The wise motorcyclist dresses for the fall. Fall without leather between your skin and the road, and you will lose skin. (Trust me, I've tried Levis, and they are no substitute.) But road-rash heals somewhat more quickly than brain-damage. Asked to pick

one area to expose to damage, would you pick your head?

5) Dick Floyd falsified evidence used in the California Senate. Response: He didn't only falsify it, he invented it as needed. The man is a serious a\*\*hole. Wear a helmet anyway.

Finally, some opinions from me: I believe a person has the right to risk their personal anatomy as they desire, but motorcycling without a helmet adds risk unnecessarily, in my opinion. If you want another opinion, ask someone who rides a motorcycle as their means of commuting, like Marty Gould. Ask about his near-misses, too. Furthermore, a helmet and leathers alone will not make you a safe motorcyclist. Practice, awareness and maturity are also needed. If you ride or plan to do so, consider the safety courses offered by the Motorcycle Safety Foundation (800) 227-4337. It's cheap for students. (\$50, I think.)  
Andrew H. Mutz138-78, Keck Lab.

## IHC Minutes—October 30, 1991

Present were: Dave Wales, Tim, Emmeline, Andrea, Aimee, Nate, Kim West, Randy [Chairman], TJ, and me. (Rob showed up about 2118 hours)  
We started at 2112 hours 30 Oct 91. Discobolus: On Sunday Blacker will play Ruddock in Ultimate Frisbee. Ricketts is next to challenge. Discobolus challenges must be submitted to the mailbox of the challenged President by 6pm of the Monday following the last challenge. Any questions, look in your little t.

The stereo that Ruddock got from the health center is old (a turn table even!!) and under powered. If anyone wants it talk to TJ (Ruddock room 225).

Bike racks that were between Page and Lloyd: Nancy seems not to know about the walk around. Volunteers are needed to walk with Nancy and/or Paul to find a new bike rack site. If there are any extra bike racks, Kim wants a few set up outside the MOSH/DRL office. All the bikes that were locked on the bike racks when the bike racks were removed are currently somewhere in the SAC (under the South Hovses).

Ron McKinnell will be sending out a mail update in the near future. [Rob shows up] 31 October 1991 will be the last day a mail code delivery to the Hovses. (Unless the movement to put locked cabinets in the lounges succeeds. Then lounge mail will return) I think packages will still be sent to the lounge.

Discussion on Ditch Day.... Apparently there are problems between the students and the media. While the media calls us "Raving nerds", last year's Ditch Day included a

water assault on a reporter and a "Media Free Zone" Several people asked if we could not invite certain media elements (like The Los Angeles "raving nerds" Times). Andrea suggested that we invited certain media people. They would be showed around campus an arbitrary unit of time before Ditch Day (it's tomorrow Frosh!) and given a prep. Dave Wales said that Andrea's idea was the way the media first covered Ditch Day. Maybe the Senior Class President (Andrea) should talk to Bob O'Rourke in public relations. In any case, to cut our losses with the media, maybe we shouldn't be so harsh to the reporters.

Locks on single sex bathrooms and locks on showers: NO from Blacker. Nate thinks the Scurves say No. The Page women say no. Ruddock, no, but doors (instead of the curtains) on the showers would be a good idea.

Aimee asked about locks for the Lloyd for the doors going outside. TJ said that Ruddock is changing its House combo off of factory setting.

-Randy complained that we ran out of beer at the 7 Hovse Halloween Party really early.

-Andrea asked for real comments for the commencement speaker.

-8 Nov 91, meeting of all the Social teams with Kim in the DRL's office.

-Dave Levy, Director of Financial Aide, and his staff want to know the students and the Hovses. They want a reception with the Hovse RAs and Presidents.

-On Friday, 1 Nov 91, there is a Centennial birthday party on the Olive Walk with a live band.

The meeting ended 2201 Hours.  
—Benjamin Smith, IHC Secretary

# Zeitgeist 1: The Meaning of Life

by Maneesh Sahani

[So I stole the title. What of it? Everything in literature has been said before. Even that. Not that I can rightfully contend that this is literature. Zeitgeist is the spirit of the times. A flavour left in the back of one's mouth after an afternoon's contemplation on the folly of modern man. One of those grim intellectual ideas that only the Central Europeans have good names for. Ever read Steppenwolfe? Anyway, this purports to be a sporadically weekly column wherein I (or anyone else who cares to send an essay to me) expostulate upon just what it is I think of the world.

More often than not I will try to talk about that piece of the world that we all share experiences in. Sometimes I will not be quite so close to home.

Where did I steal the title from, you ask. I know of two columns that go by the name Zeitgeist. One is in the {it Guardian}, a left wing Manchester newspaper. The other is in the {it Utne Reader}. Most people tell me I'm conservative. —m.]

It is possible that this should have been titled "The Case for a Central Policy". "The Meaning of Life" has such a nicer ring to it, though. Central Policy went out of fashion with

the collapse of the Leninist Monolith.

I must confess to a recent change of conviction. I have, in the past, regarded with great exasperation the vast amounts of time spent by nations and organizations of lesser stature in deciding and negotiating what is to be done, but never doing it. The EEC, for example, spends a dreadful amount of time redefining its goals again and again, while progressing not one iota towards them. I would rather have seen them get off their rear ends and fix a few things. I must now recant.

To explain why I will digress. [sic] Every now and then someone will draw me into a discussion of personal ethics. I will find myself being asked not only to tell them what I believe, but to also justify these convictions. I am trained to be a scientist; so, usually, is the person to whom I must justify my thoughts. Mere assertion is insufficient. I must deduce. I must find a first principle that can be commonly accepted and demonstrate that my personal world logically follows from the premise. Naturally, I have learned to flee such conversation whenever possible. Sometimes, I cannot and then I occasionally even have fun. But almost never do I succeed. My opponent, cornered by the compelling rigorous edifice that I construct, is forced to fall to the lowest tactic of debate. She doubts my premise. And then I have no answer.

If I knew why man existed, what our goal is, why we reproduce, I could justify an ethical system. In brief, all would be acceptable if and only if it was most compatible with fulfilling mankind's ultimate goal. Many claim they know the nature of this goal — it is to better the Glory of God, to maximize our collective happiness, to (George Bernard Shaw's intellectual conceit of {it Man and Superman}) help Nature understand herself, to kill the Russians, to all pay tribute to me. Permit me my atheism. I disbelieve.

When inspiration strikes me, be it divine or mundane, I will join the ranks of the enlightened and explain (or sell) to you all the One True Way. Until then I must adopt stop gaps, ethical systems that merely lean in the direction that my intuition thinks will hold the answer. But I am without defense against the doubter.

(I dive deep into the troughs of recursive digression to remark that a particularly pernicious doubter has been ignored. The Existentialist will claim that there is no grand reason. We merely exist. This is marvelously attractive, but it does not serve my current purpose. So I will neglect it.)

The digression has ended. I must now, in reflecting upon how useful a grand purpose would be in one sphere, acknowledge its value elsewhere. I must respect the desire to define where it is we want to go, such that we might give rigorous proof of the best way to get there.

Continued Next Week

## Proposed ASCIT Bylaw Amendments

There will be an election on November 11 to determine if the following amendments will be made to the ASCIT Bylaws. These amendments were proposed by official action of the ASCIT BOD on October 29. Each of the three proposals will be voted on separately. A letter of explanation will be in the November 8 Tech. Thank you for your attention.

Lanny Boswell  
ASCIT Election Chair

### Proposal #1

Change Article VIII, Section 5, Paragraph 1 to read:

"Each voter may cast one vote for each office. In order to be elected in the initial election, a candidate must receive an absolute majority of all correctly-cast non-no votes and receive more votes than the number of no votes. If in any election, no candidate receives more than the number of 'no' votes, then there shall be a vacancy in that office." Change Article VIII, Section 7 to read:

"In the event of a vacancy on the Board of Directors, the Executive Committee shall appoint an individual to fill the office temporarily and to perform its duties without vote on the Board of Directors, unless the vacancy was due to no candidate in the initial election receiving more than the number of no votes. In the event of a vacancy of any other elected office of the corporation, the Board of Directors shall appoint an individual to fill the office temporarily, unless the vacancy was due to no candidate in the initial election receiving more than the number of no votes. In either event nominations for the vacated office shall be opened within a period of seven (7) days from the occurrence of the vacancy. In the event of a vacancy on the

Board of Directors due to no candidate in the initial election receiving more than the number of no votes, the Executive Committee may appoint an individual to fill the office and perform all of its duties, until the end of its term or another individual is elected under the terms of Section 12. In the event of a vacancy of any other elected office of the corporation due to no candidate in the initial election receiving more than the number of no votes, the Board of Directors may appoint an individual to fill the office and perform all of its duties, until the end of its term or another individual is elected under the terms of Section 12."

Append to Article VIII, a new Section to read:

"Section 12. Upon presentation to the Board of Directors, by any member of the corporation, of a petition bearing the signatures of twenty percent (20%) of those eligible to vote for an office in which there is a vacancy because no candidate in the initial election for that office received more votes than the number of no votes, a new election for that office shall be held. Signatures will be valid only if the petition was signed not more than seven days before it was submitted to the Board of Directors. Nominations for the new election and the new election shall be held in accordance with the provisions of Article VIII; except that the nominations will open the Wednesday immediately following the presentation of the petition to the Board of Directors."

### Proposal #2

Change the first sentence of Article VIII, Section 3 to read:

"Ballot boxes shall be placed in each of the undergraduate houses between 11:00 A.M. and 11:30 A.M., and removed between 11:00 P.M. and 11:30 P.M."

### Proposal #3

Append to Article XII, Section 4, a new sentence to read:

"Upon completion of their terms of office, the Board of Directors and the Election Committee shall be entitled to a vacation in the locations of their choice for a period not to exceed one month. All expenses related to this vacation shall be paid with corporation funds."

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# The Inside World

## Inside World Policy:

All Inside Worlds must include the author's name. Inside Worlds can only be written by current undergraduates. The editors reserve the right to edit any or all parts of an Inside World. No libelous material will be accepted. It is the author's responsibility to check material written about a person to see if they consider it libelous. Please submit a 3.5 inch Macintosh Disk by 8:00 PM Wednesday.

This Week's **Inside World** was written by:

					Page:	1 <sup>ST</sup>
Blacker	0	0	2	0		2
Dabney	0	0	5	0		5
Fleming	3	1	3	0		7
Lloyd	1	3	1	0		5
Page	0	0	4	1		5
Ricketts	4	2	0	0		6
Ruddock	2	4	0	0		6

Page spielt volleyballen  
 Gotterdamerung kommt jetzt  
 Blau sind die Page Jüngen  
 und stolt Cushmans Getzt!

Fünf, fünf, fünf, fünf, fünf, fünf,  
 fünf, fünf,  
 fünf, fünf, fünf, fünf, fünf, fünf,  
 fünf, fünf!

Fünf, fünf, fünf, fünf, fünf, fünf,  
 fünf, fünf,  
 fünf, fünf, fünf, fünf, fünf, fünf,  
 fünf, fünf!

Apostol und der teufel  
 Sie machen mich Hausaufgaben  
 mache!

Bitte das tut mir leid  
 Pound-de-monium gubbel wacke!

Göbbel balst dweeble wichlo  
 Bellen froshling showeren viele  
 Change fröhlich doste wrettle  
 Die board essen ist mealy!

Düde, düde, düde, düde, düde,  
 düde, düde, düde,  
 düde, düde, düde, düde, düde,  
 düde, düde, düde!  
 Düde, düde, düde, düde, düde,  
 düde, düde, düde,  
 düde, düde, düde, düde, düde,  
 düde, düde, düde!

So for some unknown reason,  
 Seiya Fukuda and I wound back  
 up in Blackened. I keep trying to  
 get out, but they keep pulling me  
 back in. I've noticed that in Page,  
 and especially in Blackened, a  
 different dialect is spoken. Some  
 you may recognize and some you  
 won't. For proper pronunciation,  
 go to Blackened.

Back by popular demand:

# PAGE

Page Inside World  
 By Dave "The Wave" Krum

I should make an editorial note before I begin this Inside World. The problem with Tech nowadays and I assume the problem at other college campuses is that everything is judged on the basis of offensiveness. Can I say or write this will it offend anyone. Sometimes the truth hurts and it offends someone. Sometimes it's humor and it might be a little offensive since it relies on shock value. SO LIGHTEN UP! Yeah, sure, there is a line that shouldn't be crossed. If it is slander or libel, (it must damage the person's reputation and the originator must know that it is untrue) then the line is crossed. However, it's pointless to hunt down and destroy anything that might possibly offend someone.

But, hey, I'm not too harsh a person so I will be really surprised if I offend anyone in this Inside World.

## PAGE'S DINER

(to the tune of Tom's Diner)  
 (Suzanne Vega and DNA)

Es ist mittwoch und ich frage,  
 Carpet müchen und Lloyd frugen,  
 Was ist das Sie sagen?  
 Phlegming so sich blucken.

Und ich trembele wann du angest,  
 dann ippel das gecko,  
 und ich blenke EE fourteen,  
 warum Tai ist sehr wacko!

Dep de dö dep, dep de dö dep,  
 dep de dö dep, dep de dö dep!  
 Dep de dö dep, dep de dö dep,  
 dep de dö dep, dep de dö dep!

Das wetter ist so schlech,  
 und küh haben udders.  
 warum temkle die fernseher,  
 und ich phone meine mutter!

Hey all you frosh and sophomores, this Sunday is the big day. Starting at noon, east of the athletic complex, you will be involved in one of the slimiest, dirtiest, muddiest experiences of your entire life. Yes, it's time for Mudeo, that annual pitting of Tech's weakest two classes against each other for bragging rights. The sophomores have a one year winning streak they will be try-



ing to maintain. There will be free food for all who dare to venture over, and possibly some volleyball action afterwards in the ooze. Plus your chance to meet Chris Brennan, David Wales, and notable others as they flip burgers for you! Come one, come all, to Mudeo, this Sunday.



# PAGE

## A conversation in Blackened Alley II

Fünf. Heute ist Mittwoch. Nein! Heute ist Donnerstag. He, He, Heh! Look, Tom's going into his tenth mode! I have three ideas for dinner, Dominoes, Pizza Hut, and Little Ceasars. So as number of pizzas approach infinity, average price approaches four bucks. Party on Techer! No, no, no, no, no. Waaaarrh. The manliest of men in the manliest of houses. LOOOOOOK! Oh, Kermy! Heck, yeah! Sechs! Carpet münchen. Ooh, ooh, ooh, aah, ahh, ahh. You're going for the big league. Snack on that! Good, God, man! Gene Roddenberry? He's dead, Jim! Wonderbread, Wonderbread. So, I have a better Snoopy. Free, free, set Dave free! Frrooosshh! That's threeeee! Net's do ninear circuitanaysis. You gonna suffah. You know how I know? I do more homeworks dan you. You like my eyes? See ya! See meeeeee! Heeeeeeeey, Fuuukuuuuda! Well, alright, then. It's Mike glom! Look, Teru and Seiya, house Ikari Warriors. Free Dave Goldberg with every purchase of one Fukuda. LOOOOOOK! Huh, harsh! Baghera, nadau, nadau! We will ALL have dates. Slam, see ya! Lucy, is that you? Slam, sidown! Life is soooooo hard. Oh, no! Oh, I'll be alright. Jimmy Hofstee! Everybody, troll now! (Bass and percussion track begins) I was up above it, now I'm down in it. Ooh, I'm in jail! Free Dave Goldberg. Jisooooo! Hey, it's the Korean mafia! Now it is

the time in Apostol's when ve dance! I'd rather stick a screwdriver up my urethra than sit through another Tommy lecture. That's the best move I've ever seeeen. You translucent sophomore. He's just a shadow of a fourth dimensional being. Free h i m ! AAAAAAAAAHHHHHHHHH! (Joe removing cap from overheated radiator) So, somepeople in this room really stick out. Vas ist das! Shut up, maaan! Look at chu! You suuuuuck! So, I would really like to see him in a towel. Get a brain. Free fünf! Yah? Dude!

Dave's World, Dave's World! Party on! Excellent!

Dave: Welcome to another edition of Dave's World. Party on, Seiya!  
Seiya: Oh! Party on, Dave.

Dave: For those you don't know, it is a widely believed notion that if your roommate dies, you will receive straight A's. What a coup!  
Seiya: WHOA! WHOA!

Dave: Don't get any ideas, Fukuda!

Seiya: Today, we have the top ten ways to kill your roommate.

Dave: Wait a minute!

Seiya: Here they are!

10. Convince him to stay on board food.

9. Lock him in a room with Mike Wong's drum corps music.

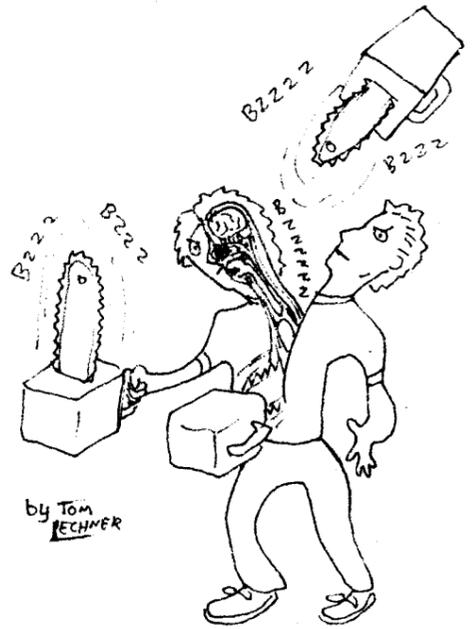
8. Have him devoured by the crayfish in Throop pond.

7. Make him touch the capacitors on the Broox stereo and see him seriously die! I swear they were Megafarads.

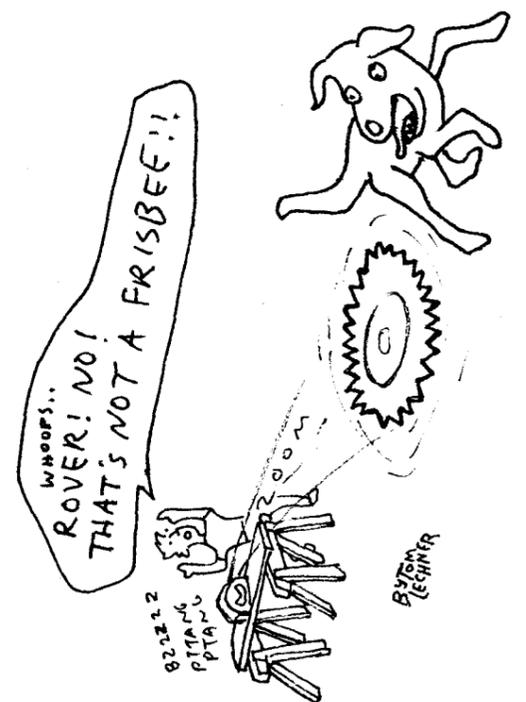
6. Introduce him to MUD games. He'll play until he dies of starvation.

5. Feed your roommate your unknown carboxylic acid.
4. Push him in front of a Cushman.
3. Impale him on that helicopter thing in Milikan pond.
2. Electocoute him with twenty or thirty Ph 1b high voltage power supplies.
1. Encourage him to do the descent from Milikan Library into Milikan pond.

Dave: Seiya! Put down that knife. Oh, no! AAAHHHHH!  
Seiya: Don't worry, readers. He'll be ok. Next time, top ten ways to glom!



THAT'S THE LAST TIME BERNARD TRIES THAT TRICK



# ENTERTAINMENT

Bistro 45



Restaurant Review:

by John Krowas

Bistro 45 is a trendy, California-French restaurant that happens to be within walking distance of campus, at 45 South Mentor. You may not have noticed it if you've walked by, but it's definitely worth a second look.

We visited Bistro 45 on two separate occasions, in June and October of this year. On both visits, we were impressed by the excellent food and wine and the quick, friendly service. However, the menu changes seasonally, so the selections we mention here may not be available when you visit.

There are about eight appetizers on the menu, plus a soup, terrine, and ravioli of the day. On our first visit, I tried the ravioli of the day, which was charbroiled beef tenderloin with a tangy cheese sauce, while Nina had the braised artichoke salad. Both of these were delicious. The ravioli is not quite what you'd expect. It was served in a small bowl, and consisted of a few strips of very tender beef and a few spices between two circular sheets of pasta. Unusual, but excellent. On our second trip, we shared the escargot appetizer. Now, I'd never had escargots before, but Nina loves them, so I conceded to trying them. At Bistro 45 they're sauted and placed in a pastry shell with a peppery tomato and wine sauce. It's a very gentle introduction to something that's easy to be scared of. There aren't any shells, so they're easy to eat, and they're really quite good.

Entrees range from the ordinary done in a unique style to the exotic prepared outlandishly. The ordinary is contained in charcoal grilled chicken breast with peppercorns and a light sherry sauce, and in muscovy duck with a light raspberry sauce. The exotic consists of grilled Norwegian salmon with apricot glaze and braised veal shank. The entrees are attractively presented, often with beautifully arranged garnishes and accompaniments. It's almost a shame to eat them. The chicken I had was easily the most tender, juiciest preparation I'd ever had. The combination of the peppercorns, herbs and charbroiling gave it a wonderful flavor. The salmon is also delicious, the sweetness of the apricot glaze nicely complimenting the flavor of the very fresh fish.

It would be a shame to dine at Bistro 45 without choosing a wine from their extensive wine list. A lot of California cuisine restaurants fall short on their wine lists, and it's nice to see more than a few choices in each category. The owner, Robert Simon, has excellent taste and an eye for value, as he personally selects the wines for the restaurant's temperature-controlled cellar. On our two visits, we chose a 1988 Joseph Phelps Zinfandel (\$19) and a 1988 Byron Chardonnay (\$27). Both were excellent, and are tremendous values at their respective prices. The wine list also includes a wide selection of other California wines, and an equally large selection of French wines. Not as many good values appear on the European side of the list, though, but there is no reason not to enjoy the many fine domestics that can be had for under \$25.

Now we come to Nina's favorite part of any dinner, the dessert. The dessert menu is short, but full of scrumptious items sure to tempt you. We've tried the chocolate-hazelnut terrine, and the chocolate-caramel parfait. The terrine comes to your table surrounded in a raspberry sauce, with a pattern drawn in the sauce using cream as a medium. The pastry chef also shows his skill by topping the caramel sauce surrounding the parfait with patterns of chocolate.

Reservations are an absolute must; try to get a table about three or four weeks in advance. The second time we went to Bistro 45, there was a private party in the main dining room, and the maitre'd stuck us at a cruddy table. We complained, and eventually got a much better one. The first time we went, Robert Simon acted as maitre'd and we got much better and more personal service. Of course, they were much less busy at that time, so we certainly shouldn't condemn a restaurant based on that alone. The waiters, in comparison with the maitre'd, are much nicer, and are not pretentious in the least. Service is unbelievably fast, even when they're busy, yet you don't get the sense of being rushed to leave. All in all, Bistro 45 is a great place to take someone special without being smothered by the grand atmosphere of other "fancy" restaurants.

Bistro 45. 45 South Mentor. 795-2478. Appetizers, \$6-8; Entrees, \$16-22; Desserts, \$6. No jacket or tie required, but dress nicely, so you won't look stupid.

## Soccer Takes a Lickin' and Keeps on Tickin'

by Jim Werner

Thanks to slaughters at the hands of Pomona-Pitzer and Claremont-Mudd, the Caltech Beaver soccer team leads the league in the number of kickoffs per game. Against Claremont, the final score was 0-8, which is quite indicative of the dominance shown by the Stags. The first half went rather well, as the Beavers held their opponents to a 2-0 lead. In the second half, the Beavers seemed to run out of gas and the Stags took total control. At least the benches of both teams saw some playing time.

In the last Wednesday's game

(10/30), The Beavers lost a close one to the La Verne Leos. The final score against the Leos was 1-2. The Leos scored the first and second goals of the match. All of the scoring occurred in the first half, with solid defense displayed in the second 45 minutes of the match. Caltech's sole goal came from a penalty kick taken by Greg Dudey that almost set the net on fire.

In other recent league play,

Caltech lost 2-3 to Whittier. Caltech started off strong in the first half, scoring both our goals and shutting out the Whittier "I think that I shall never see a soccer team as good as we" Poets. In an awesome display of studliness and speed, Ossman "insert nickname here" Kibar and Rob Whiteley each connected on breakaways for the two Tech goals. Unfortunately, in the second half, the Beavers allowed Whittier to

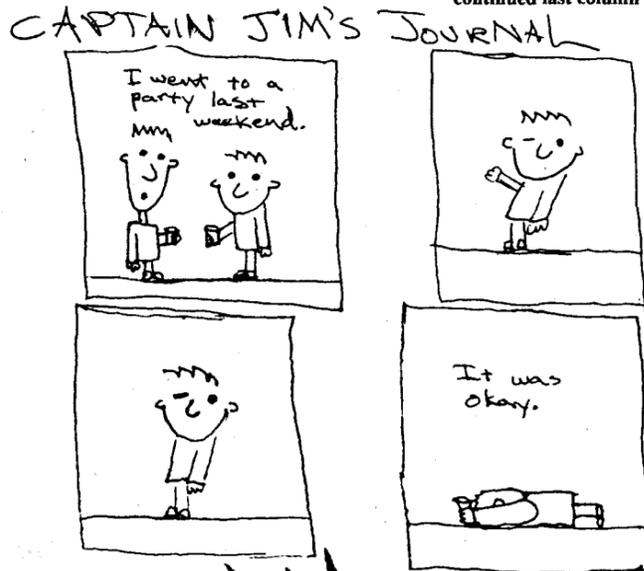
continued last column page 8

### This Week:

Pasadena Community Orchestra

The Pasadena Community Orchestra will be holding November concert featuring pianist Susan Svrcek. Selected music consists of works by Artsibouchev, Mozart, Tchaikovsky, and Sibelius.

The performance will be held at 8:15 PM Friday, November 1, 1991 in the First Church of the Nazarene located on 3700 E. Sierra Madre Boulevard. For more information call (818) 445-6708.



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## Caltech Recycling Expands

by Pete Carlin & Rob Rickenbrode

Since the beginning of school, the Caltech Recycling program has redoubled its efforts to provide opportunities for recycling on campus. The program is now employing undergraduates on work-study to maintain the Caltech recycling facilities and to educate people as to what can be recycled, where it can be recycled and how to recycle.

Currently five undergraduates work for the recycling program. They empty bins, maintain the recycling center, and try to increase awareness of recycling opportunities on the Caltech campus.

The primary focus of the recycling program is to encourage people to manage their disposal habits so that more resources are recovered and reused. The Caltech recycling program makes available facilities to recycle paper, cardboard, glass, newspaper, and some plastics. These facilities include: a recycling center located at the northwest corner of the Beckman parking lot, bins for

paper distributed throughout campus, and bins for aluminum cans, glass, mixed paper and plastic available in the undergraduate houses.

All types of paper can be recycled. Infrequently mentioned examples of recyclable paper include paper-back books, phone books, magazines, and envelopes without plastic windows.

Three colors of glass are accepted—brown, green and clear.

Plastic is categorized into seven classes, two of which the Caltech recycling program accepts. Most plastic containers specify which class they are by a number inside a recycling symbol. Caltech recycling accepts all plastics numbered two. This includes milk, most shampoo, and most drinking water bottles as well as some plastic grocery bags. For example, plastic bags from Ralphs, Vons and Pavilions are all class two. The other class of plastic taken is California Redemption Value (CRV) plastic soda bottles. Please only deposit these two classes

of plastic and please remember to crush them!

In addition to managing disposal, recycling includes selecting resources which are inherently less wasteful and more reusable. This is called precycling. Buying in bulk, buying materials in simpler packaging and supporting the recycling industry by using recycled materials are all ways to precycle.

Buying in bulk means avoiding individually wrapped, small portion products. This practice is not only good for the environment but also cheaper.

Products in simpler packaging use a minimum of material. They also use more recoverable materials. Cardboard cartons are better than styrofoam, glass and aluminum containers are preferable to plastic materials. Products packaged in more than one kind of material are more difficult to recycle.

Recycling is easy and reduces the economic, environmental and human costs of our materialistic and misdirected urban society. Questions, comments, concerns and suggestions about the Caltech recycling program should be directed to Chris at the Caltech Y (x6163).

## CRIME AND INCIDENT BEAT

Security tip: At 2:10 PM on 10/30 the security tip was stolen. Value: immeasurable.

10/17 \$200 was stolen from the victim's locked office when the victim went to lunch. There was no sign of forced entry into the office and lunch time was the only that the money was out of the victim's possession.

10/22 One of the student mailboxes was damaged. The lock and glass were removed from the door.

10/24 An unauthorized solicitor was reported on campus. The solicitor was escorted off campus and informed to make arrangements to return to campus.

10/24 The victim's bike was locked at the north side of Sloan Annex between 5:45 and 6:45 PM when someone stole the tire and wheel. Value: \$50

10/24 During dinner time the victim left the bike in the Lloyd house courtyard. Upon returning the bike was missing. Value: \$120

10/25 A suspicious person was seen in the Dabney house courtyard. The suspect was told that this is private property and was escorted off campus.

10/27 A bike was taken from the victim's room while the room was unlocked for a few minutes at around 5:30 PM. Value: \$450

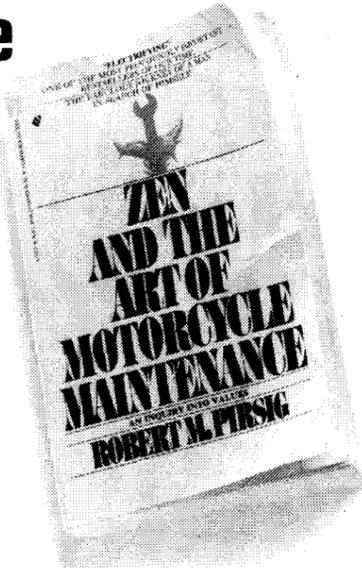
10/28 Two vendors were found going door to door in the Catalina Housing area. They were advised that they were not allowed to solicit on Caltech property. The suspects were escorted off campus.

Total value: \$820

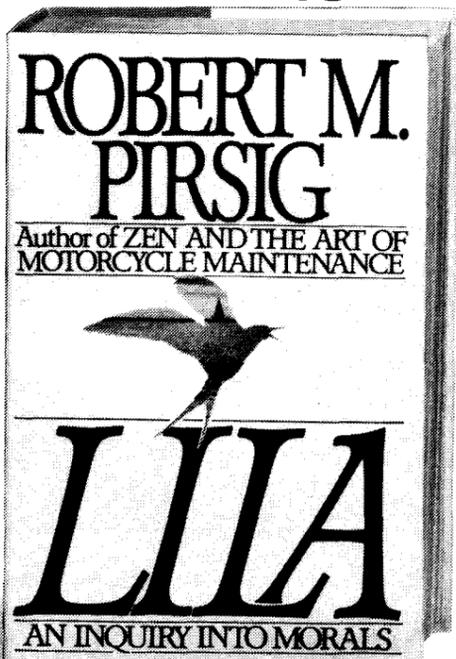
## Callbox Information

You've seen these callboxes all over campus. Most of you probably know how they work also (if you don't then you either have never seen them or you need some help). What actually goes on when you push that mysterious black button? When you push the button, a light indicating the location of the callbox lights up on a map in the security office. Also a light on top of the box starts to flash which makes it easier to spot (it also has another purpose but more on that later). After about 20 seconds an officer will activate the intercom and then you can tell the officer about your situation. If there is an emergency then an officer will be dispatched. So far the callboxes have been used once for an emergency. The callboxes are also used to monitor the area (about 4-5 feet out) around the box. The monitoring is done only by Caltech security. Before you start to panic about your conversations being recorded, you should know that if the box is recording, the light on top will be flashing. If there isn't any light flashing on top then nothing is being recorded. Also, if you do push the button, remember that the entire conversation is being taped by security and those tapes can be used as evidence in court. That basically all there is to those call boxes. For the locations of the boxes on campus, read your Personal Security Handbook or look in this issue for the map.

## Zen and the Art of Motorcycle Maintenance set an entire generation on the path.



Now, at last, the extraordinary journey continues.



"Zen and the Art of Motorcycle Maintenance was like a first child. Maybe that will always be the best-loved one. But this second child is the bright one. I think a lot of people will argue with some of the ideas in LILA. There may be controversy. But if people are still reading these two books a hundred years from now, I predict LILA will be the one they consider the more important."

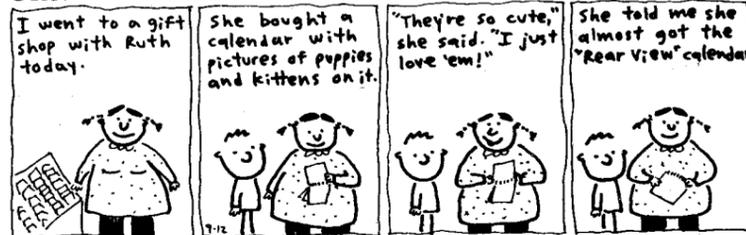
—Robert M. Pirsig

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### Jim's Journal

by Jim



### Powerful People. Powerful Products.

You're about to receive a technical degree from Cal Tech, one of the world's most renowned educational institutions. Congratulations!

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## POWER HOURS

To learn more about our challenging opportunities, unique benefits and desirable locations, you are invited to attend the Intel Presentation/Reception scheduled:

**Date:** Tuesday, November 5

**Time:** 7pm - 9pm

**Place:** Athenaeum

Campus interviews will be conducted on November 6 & 7 for BS/MS/PhD EE, CS, ENAS, Material Science, APH, Chem E. Check the Placement Office for details.

If you can't meet with us on campus, please send or FAX your resume to: **Intel College Recruiting, 2600 San Tomas Expressway, Santa Clara, CA 95052, FAX 408-765-3979, to the attention of Intel College Recruiting.** Intel Corporation is an equal opportunity employer and fully supports affirmative action practices. Intel also supports a drug-free workplace and requires that all offers of employment be contingent on satisfactory pre-employment drug test results.

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ASCIT Minutes  
10/29/91

Present : Won Bang, Taleetha Derrington, Cathy Hafer, Debi Tuttle, Ari Kaplan, and Eric Stout (president)

1. **Big T** - The editors of the Big T are approved to receive their salaries as per the compensation schedule ( \$500 + \$400 bonus ) passed (5-0-0)

2. **Bylaw Changes** - The bylaw changes regarding election procedure were approved by the BOD (5-0-0). They will be put to a student vote next Friday.

3. **Noon Meeting** - There will be an open ASCIT meeting on Tuesday, Nov, 12th at noon. The location will be clubroom 1 in Winnett center. All members of the Caltech community are invited.

4. **ASCIT Payroll** - Resolved: That the following are approved signatories for the ASCIT payroll checking account: Eric Stout, Jason MacLeod, Taleetha Derrington, Gavin Claypoole, Jon Liljebblad, Andy Crews, and Delwyn Gilmore.

Jason MacLeod  
ASCIT Secretary  
Mail Code 41-58

Commencement  
Speakers to  
be Chosen

The following is a list of speakers under consideration by the Conventions Committee for Commencement. Serious input on this list is desired by Andrea Mejia, Senior Class President. She may be reached at 578-9370, Blacker #18.

Alan Bromley (Presidential Science Advisor)

Jewell Cobb (Caltech trustee)

Elizabeth Dole (Secretary of Transportation under Reagan)

William Fowler (Caltech professor, Nobel laureate)

Nadine Gordimer (South African, Nobel prize in Literature)

David Kearns (Assistant Secretary of Education)

Gloria Molina (Los Angeles City Councilwoman)

Mary Robinson (President of Ireland)

Ronald Sagdeev (head of Space Science Institute in Moscow)

George Schultz (Secretary of Defense)

John Slaughter (President of Occidental)

Margaret Thatcher (ex-Prime Minister of Great Britain)

Cartoonist Competition

The Scripps Howard Foundation is accepting entries for the Charles M Schulz Award to honor outstanding college cartoonists and to encourage them to launch post-graduate professional careers. A cash prize of \$2,000 and a plaque to the winner and a citation to the college publication is offered. The award is sponsored by the Scripps Howard Foundation and is funded by the United Feature Syndicate.

For more information, call Delwyn, Andy, or Jon at x6182 (ask for Tech eds.).

ME72 Engineering Design Contest

Thursday December 5th, 1991

2:00 PM

Beckman Auditorium

The 7th annual Caltech Engineering Design Contest will be held on Thursday, December 5th, 1991 in Beckman Auditorium. Spectators are welcome. Admission is free. Professor Erik Antonsson will preside.

Gay, Lesbian, and Bisexual Group

This discussion group meets the 1st and 3rd Tuesdays of each month from 7:30-9:30 PM in the Health Center. This confidential meeting is open to all members of the Caltech community. The first hour is devoted to discussion of a specific topic, and the remaining hour is open for general conversation and socializing. Refreshments are served. For information please call 356-8331.

Coffeeshouse Pumpkin Weight Contest

The Pumpkin Weight Contest is officially over. The actual weight of "Phred" the Pumpkin was 137 lbs., 4.3 ozs. The best guess was Adam Villani with 137 lbs. 6 ozs. (he wins 2 Knott's Scary Farm tickets). The second best guess was Larent Stadler, who won "Phred." The most clueless guess was Amitav Mehra with 448 lbs. 27 ozs. (he wins the mutant zucchini). The most pathetic person guessing was Jasmine Anderson, who had 62 guesses and not one was correct.

Follow-up for the 1991 Student/Faculty Conference

If you are interested in the follow-up from the 1991 SFC, meet Wednesday, Nov. 6, from 4:30-5:30 PM in the IHC room of the new Master's Office (ground floor Winnett)—and weekly thereafter. Show up if you care about the quality of life at Caltech. We'll be finalizing recommendations from last year's conference (and acting on them) and discussing new issues as they arise.

Danish Movie in 22 Gates

American Pictures, a multi-media show by Jacob Holdt about his personal journey through the American underclass, will be shown on Thursday, Nov. 14 from 7-11 PM in 22 Gates. Sign up at the Caltech Y or call Chris at x6163 for more information.

Caltech Women's Glee Club Fundraiser

The Caltech Women's Glee Club invites you to see the Rose Parade on New Year's Day 1992. Tickets are \$30, which includes seats and a continental breakfast. Proceeds from this event will provide scholarship help for the Women's Glee Club 20th anniversary trip to Boston in March, 1992.

Ticket order will be taken by mail only, and must be accompanied by a check. For tickets, or more information, send to: WGC Rose Parade, Caltech 2-58, Pasadena, Ca. 91125.

CITEC Wants You

The Caltech Engineering Club (CITEC) wants you to help build a railgun and future projects such as a hovercraft. We will meet Tuesday the 5th of November in room 25 of the SAC. For more information call Stephen Heise at x6171.

Aero Association of Caltech

The Caltech/JPL will hold their fall general membership meeting on Wednesday, Nov. 13 at 7:30 PM in 306 Firestone. The evening's program will include a talk on "NASA/Ames-Dryden Research Flight Operations" by Ed Schneider of the Dryden Flight Research Facility.

For further information contact Finbar Sheehy (x4848), Thomas Buectgenbach (x3740), or Kevin Condroski (x6061).

Surf Speaker's Bureau

The SURF Speaker's Bureau will be having it's second meeting this Sunday, Nov. 3, 2:00 PM, Beckman Institute Room 115.

If you are seriously considering participating in the activities of the SURF Speaker's Bureau this year, please attend this meeting. Alimentary sustenance will be provided. If you have any questions, please contact Jeanie Cass at 793-5487 or Jerri at x3762. Thanks! See ya there!

Caltech Y Halloween Open House

The Caltech Y will be having a Halloween Open House on Thursday, Oct. 31 from 2-4 PM on the 2nd floor of the Winnett Student Center. Halloween refreshments will be provided and the staff will be available to give information about activities and services.

Hillel Faculty, Staff, Student Brunch

Rabbi Jonathan Omer-man will speak on his meeting with the Dalai-Lama in India. Bagels and lox will follow. The brunch is scheduled for Sunday, Nov. 3 at 11:30 AM. Reservations are a must. For information or reservations call Louise Lorden at 447-2003 as soon as possible.

Announcements for *What Goes On* may be submitted 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. Announcements should be 75 words or less. Indicate the date(s) the announcement is to run. Announcements for the current issue must be received by 5 pm Tuesday. 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.

Y-Hike Reunion

The 1991 Y-Hike reunion will be held on Thursday, Nov. 7 at 5 PM. All Y hikers can meet at the Caltech Y (was Hershey Lounge) to eat free food, discuss the trip, and receive their 1991 Y-Hike commemorative T-shirt. Call Chris at x6163 or sign up at the Y today!

Caltech Management Association

Dr. Roger D. Bourke will be holding a discussion of "Recent JPL Activities in the Soviet Union: Rovers and Coups" on Tuesday, Nov. 12 at 12 PM in Building 167 Conference Room, JPL. The noontime briefing is sponsored by the Caltech Management Association.

Muslim Student Meeting

Caltech Muslim students are inviting new members and the rest of the community to a short open meeting this Friday, November 1, 2PM, Y lounge, right after the Friday prayers. Contact Asim Mughal or Shameem Hashmi at 564-1701.

Pakistan Society

The Pakistan Society of Caltech will hold a general meeting on Saturday, November 2, 3 PM in the Marks House lounge. All members are expected to attend. RSVP Asim Mughal, email address MUGHAL@IAGO.CALTECH.EDU.

Muslim Prayers Held

Friday prayers will be held in the Y lounge at 1:15 PM sharply. If you have questions, contact Asim Mughal or Shameem Hashmi at 564-1701.

Film Club Meeting

We will have our next meeting on Wednesday, Nov. 6 at 8 PM in SAC room 35. We will discuss our Baxter movie showing and our imminent acquisition of equipment and money. Meetings for the rest of the term will be on Nov. 20 and Dec. 4.

Dysfunctional Families Group

A therapy and support group for graduate and undergraduate students who grew up in dysfunctional families is now forming. Group members will be helped to explore how such problems in the family affect current relationships with friends and loved ones, self-confidence, trust and emotions.

The group will consist of voluntary discussion in a confidential and supportive setting. Sessions are tentatively scheduled for Thursdays from 4:30-6:00 PM. Interested students should contact Dr. Aimee Ellicott or Carolyn Lyons, M.A., at x8331 to obtain more information and to arrange a brief interview.

Science, Ethics, and Public Policy

Professor Alan Brandt of the University of North Carolina at Chapel Hill will be delivering a seminar: "Warning: the Surgeon General has Determined the Cigarette, Science, and the Culture of Risk." The presentation will be at 4 PM, Wednesday, Nov. 6 in the Judy Library, Baxter Hall.

Caltech Immigration Office

On Nov. 1 Dr. Nadia Doubins will be assuming responsibility for immigration and visa related matters at JPL. She will be available on campus on Mondays and Fridays and on Wednesday afternoons (Room 111, Business Services Building, ext. 6850). Because of her curtailed campus hours, students are encouraged to make an appointment by calling ext. 6001.

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We currently have positions in Engineering for students graduating with a degree in Electrical Engineering, Mechanical Engineering, or Chemical Engineering.

Presentations in both English and Japanese will be held on:

**Monday, November 4, 1991**  
6:00 P.M. - 8:00 P.M.

Room 26, Student Activities Building

**On-Campus Interview Date:**

**Tuesday, November 5, 1991**  
9:00 A.M. - 4:30 P.M.

Career Development Center

**Interview Date for Japanese-speaking Students:**

11月5日 火曜日  
午前9:00~午後4:30  
キャリア開発センター

Contact your Career Placement Office for details on how you can sign up for our presentation and on-campus interviews. Or send your resume to: Professional Staffing, Applied Materials, 3050 Bowers Ave., MS 1826/JB, Santa Clara, CA 95054. We are an equal opportunity employer. Principals only, please.



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# SPORTS

## Hockey Beats UCLA

by Jim Caron

On Sunday, October 20, Caltech got its first division I victory against U.C. Berkeley. This was a big win for the Beavers as it dispelled some rumors that Caltech may not be able to compete in this league. Caltech played with the heart, intensity, and desire that it lacked when they played USC. This win installed a lot of confidence in the team as they won 5-3.

The first period was entirely dominated by the Beavers as they jumped out to a quick two goal lead. The first goal was scored by Max Heitzmann and assisted by defensemen Jacques Bleanger and Herman Cho midway through the first period. The second goal was score unassisted by right wing Dave Braun. Caltech's pregame intensity paid off as they quickly showed Berkeley that they were here to play hockey.

The second period was a bit of a disappointment for the Beavers. Caltech seemed to get comfortable with a two goal lead and stopped playing with the level of intensity

that had gotten them there. As a result, Berkeley scored three goals in the second period, making the Beavers feel like a one-legged man in an ass-kicking contest.

In the beginning of the third period, the tables turned in Caltech's favor. The Beavers came out on fire. They got back the intensity and were skating hitting and scoring. Getting his second goal of the night, Heitzmann tied it up early in the period. Answering that one minute later, the stealthy Jeff Hall stole the puck from a Berkeley defender and scored the go-ahead goal. Topping it off, Dave Braun also got a second goal.

Caltech is on the road for a weekend series in San Francisco against Stanford University. It is too early in the season to know what to expect out of this team. Coach George Yates said, "Regardless of how good Stanford may be, that does not take away from the fact that we are there to play hard and win. Old-time hockey - like Eddie Shore. A lot of skating and shooting."

One thing is for certain, Yates is going to keep a watchful eye on Kurt Stephens. Yates does not want to have to relive the incident with Stephens last year when the team played U.C. Davis in Stockton. "He's on his own this time," said Yates furiously. "He can't keep relying on the team to keep bailing him out of jail every time he loses his temper." Stephens could not be found for a comment on the matter. However, it was suggested that we should not seek his comment because it might give him some ideas.

Stanford's hockey program is well known and very well funded by the university. The Beavers arrived to a very large crowd of people on Friday night to an ice arena that is used for pre-season practices by the newly formed San Jose Sharks. Unfortunately, the Beavers lost that game by a score of 8-1. Caltech was severely out played and actually lost the game within the first ten minutes of the first period as the Cardinals were up by five goals. Perhaps it was due to the travel lag.

It was interesting to see how seriously the Stanford community took their hockey. On Saturday morning the team went to Stanford's training room to get rubdowns, whirlpools and nurse their bumps and bruises. Afterwards, coach George Yates suggested that the team should loosen up by taking a walk around the Stanford campus. As they were strolling along they passed a retirement home where two old ladies were sitting on a porch. The two old women knew we were the Beavers in town to play the Cardinals—and they gave us the finger. Two old ladies. That goes to show how serious Palo Alto is about their team.

On Saturday afternoon the Beavers came out a new team. They were well rested and ready to play. All except for Kurt Stephens who arrived ten minutes prior to game time. It seems that Stephens broke

curfew and spent a good part of the night trying to pass out at one of the frat houses. He succeeded.

Ironically, one of the members of the house played for Stanford and recognized Stephens as the guy who bit him near the throat during a pile up in front of the Caltech net. That resulted in a ten minute misconduct penalty. The brothers in the house then proceeded to get Stephens piss drunk to the point that he passed out. The next thing he knew was that he was butt naked lying in the back of the campus security car. He ended up spending all morning and part of the afternoon explaining what had happened. Yates was found to comment that, "it was an unsportsmanlike thing for Stanford to do."

Regardless of the incident, Caltech lost 4-1 in a very well-played, fast-paced game by both teams.

On Wednesday night, Caltech played at home against UCLA—a team that had already beaten Stanford. The Beavers knew they had to come to the arena that night and play hard and tough. Caltech showed UCLA that they are not to be taken lightly, as the Beavers won 5-2.

The first goal of the night came early on in the first period from wingman Jeff Moore assisted by Jeff Hall and Jaques Belanger. Then putting UCLA down by a two deficit was rookie Dave Spencer. In the second period the Beavers let up and UCLA came pounding back with two quick goals. This let Caltech know they were in a game. Nevertheless, the Beavers came back to score three more in the third.

The next home game for the Beavers is Wed. night against Pepperdine at 9:45 pm. This is likely to be a very exciting game and a chance for the Beavers to put a few more ticks in the wins column. Admission is free, but come early to get seating.

Soccer from page 5

score three times to steal the victory.

Unlike the Claremont game, Caltech managed to score against the Pomona SageHens. However, the SageHens were able to score six times against Caltech. The Pomona game was a "10 am Saturday classic." These games are proving to wreak havoc on the schedules and bio-rhythms of the typical Tech student. At these games, the Beaver squad is driven by sheer impulse-response mechanisms and no higher brain activity. Unfortunately, it seems the Beavers have a reaction time comparable to that of a common garden slug. Against Pomona, Caltech's sole goal came from Ossman Kibar. Ossman put in a beautiful shot over the goalie on a through ball kicked by some that totally buff stallion Rohan Mahadevan.

Attempts are being made to implement a BEVERage incentive program, similar to the one which worked so well in hockey for Dwight Berg. Saturday (11/2, 10am), against Cal Lutheran, Gary Eastvedt will have a program involving Thor, God of Thunder, and the horizontal plane. He will also provide a BEVERage for every time he scores, gets a card, or has a good slide tackle.

Captain Jim Werner is installing a similar program: if he scores, a keg will be shared by all (of course, proper ID required). Every time he slide tackles an opposing player, or even if he slide tackles his own teammates, fans participating in said program will receive a BEVERage. If you yell during the game, "That Werner's a stud," it will be upgraded to an imported BEVERage. If you yell it more than once, he'll think you're really cool.

The soccer season is winding down and the Beavers only have two more games left, both at home. This Saturday (11/2, 10 am) against Cal Lutheran, and another next Saturday (11/9) at noon against the Alumni. Come by and be an athletic supporter.

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