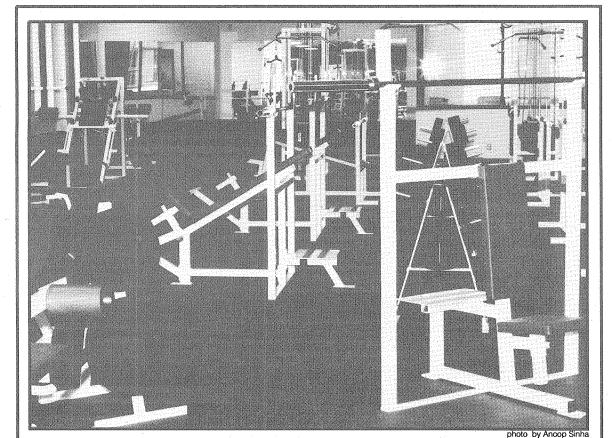


Volume XCIV, Number 3

Pasadena, California

October 9, 1992



Some of the many new exercise machines at the Braun Athletic Center, which opens today. As part of the opening festivities a free lunch for all members of the Caltech community will take place from 11:45am till 2 pm.

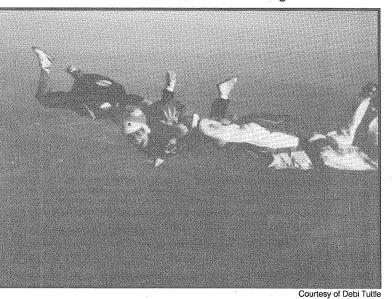
Shepard Fund Allows Student to Skydive

Debi Tuttle

Skydiving: ("Isn't that really dangerous?") the sport of jumping out of a perfectly sound airplane, ("I would never do that.") reaching a terminal velocity of 120 miles per hour, ("Aren't you scared or nervous?") with the expectation that 300 square feet of cloth will save your life. ("What if your parachute doesn't open?")

After a few weeks of hearing comments like those, even I was beginning to doubt my sanity. I couldn't believe that I was actually going to do it. Back when Matt Durasoff and I entered the Don Shepard Essay Contest, I hadn't contemplated the reality of what skydiving entails. But the money had been paid, and the night before we jumped out of a plane, all I could say to Matt was, "We're crazy!"

The next morning was fine and clear, and it promised to be a hot, sunny day. Matt and I were at the Perris Valley Parachute School by 7a.m., and were registered, paid up, weighed in, and assigned a class by 9 a.m. There are two types of jumps that the school offers: Tandem and Advanced Freefall. On a tandem jump, you are strapped to a qualified skydiver ("Jumpmaster"); he carries one parachute for the both of you and basically takes care of ev-



"Debi Tuttle (center) exhibits excellent form in the air while jumpmasters Jerry (left) and Larry (right) look down."

erything. Advanced Freefall is actually an eight-level course designed to make you a solo skydiver. Matt and I were going to attempt Level One.

There were six of us in the class that day: Matt and myself, a skibum-type couple named Heather and Jeff, combat boot-wearing Mike (who, coincidentally, went to the same high school as Jennifer Miller and Rob Underwood), and another guy who lost his nerve and dropped out of the class after lunch. Our instructor du jour was pixie-like Jennifer, ninety pounds of serious skydiver. After we had gathered in the small, stuffy classroom and exchanged nervous banter about what we were about to do, Jennifer flashed a feral smile and proceeded to tell us that yes, it is possible to die while skydiving.

We spent the next six hours learning how to save our lives.

We did mock jumps on the ground to learn the sequence of events, and practiced in fake harness in order to familiarize ourselves with the equipment. We were drilled for hours on emergency procedures. Jennifer admitted that she was trying to scare us into learning and, more importantly, remembering. In spite of all the precautions, however, we were assured that parachute jumping is safer than it sounds; in Jennifer's history of over two thousand jumps, she only had to use her reserve chute twice. But all in all, it's completely up to you to pull the cord. When we finished training, Jennifer looked us each in the eye and asked us with total seriousness, "Do you think that you can save

Democratic Candidates Talk to Caltech Community

Michael Oder

The raucous world of Presidential politics often tends to overshadow the local elections for Congress and state offices. One of the major challenges for the candidates in these elections is simply to let the voters know that they exist, anything beyond that is superlative.

Last Tuesday night voters at Caltech had an opportunity to meet several local candidates and confront them directly with their questions. The forum was organized by the Caltech Students for Clinton/ Gore.

Appearing were Jon Fuhrman, who is running for the State Assembly against incumbent Bill Hoge, Rachel Dewey, who is running for the State Senate against incumbent Newt Russell, and Doug Kahn, who is running for the U.S. House of Representatives against incumbent Carlos Moorehead. Also appearing was Kenneth J Saurenman who is running against Fuhrman for the State Assembly as a Libertarian Party candidate.

The event was originally planned as a debate between, the Democratic candidates and their Republican opponents, but the two Republican candidates for state offices never replied to the invitation to attend and Moorehead's campaign replied earlier in the day, which was too late to make the arrangements, and offered only to send a representative. Saurenman showed up to debate, but since that plan had been dropped, he was allowed to address the audience along with the other candidates.

An audience of roughly 30 to 40 members of the Caltech community had gathered to see the candidates(the undergraduate community grossly underrepresented). The districts, whose reapportionment after the 1990 census was widely viewed as favoring Republican candidates, have seen a huge change in party affiliation over the last few months. Clinton is roughly 19 points ahead in polls in this area, and Democratic registration is actually above Republican in the State Assembly district.

Jon Furhman was the first candidate to speak. Furhman, who was once a graduate student in Biology at Caltech, outlined his core positions, including support for a woman's right to abortion and state funding for abortion, keeping funding for schools at a "reasonable" level, reform of the workman's continued on page2

Beckman Hosts the Aman International Dancers

Cara Stemen

Aman International Music and Dance launches Caltech Public Events' 1992-93 season on Saturday Oct, Oct 10 at 8 p.m. in Beckman Auditorium. At 4 p.m., prior to their performance, members of the company will participate in a "Dance with Aman Jamboree" where they will give instruction in the art of folkdance. Patrons are encouraged to bring picnic dinners to enjoy on the Beckman Mall before the performance.

Included in Aman's full-length

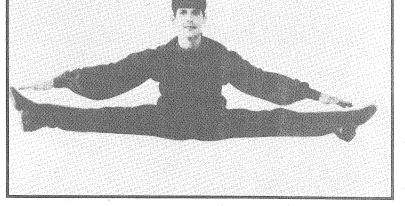
performance will be the the music and dance of Central Croatia, Dalmatia, Tadjikistan, Mexico, Northern Ukraine, Macedonia, Appalachia and other regions.

Aman was founded in Los Angeles in 1964 for the purpose of preserving and presenting America's multicultural heritage as it is expressed through music, song and dance.

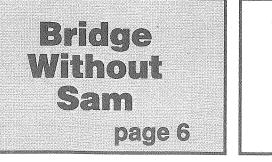
Caltech students can purchase \$7.50 Rush Tickets, and faculty can buy tickets at half price. Tickets can be purchased at the Caltech Ticket Office. For information call x4652



continued on page 6



The Aman International Dance Troop will perform Saturday nigth in Beckman auditorium.







OCTOBER 9, 1992

The California Tech

OPINION

A Response to "No More Years"

Bill Goodwine

The October 2, 1992, Tech Opinion Column, "No More Years," makes several inaccurate factual assertions and grossly mischaracterizes Republican ideological aims. With respect to trickle-down economics, data contained in The Statistical Abstract of the United States, available in Millikan, confirms the fact that Americans from all economic circumstances benefitted from the economic policies of Presidents Reagan and Bush. Table No. 762, for example, illustrates that from 1980 to 1989, the distribution of families by income level (in constant dollars), shifted upward, i.e., there was a significant trend in families in the lower income distributions to move up to higher brackets. (Note that the revised processing procedures were adopted in 1987; therefore only trends, as

if the assertion is true, we should applaud and encourage such a

successful pursuit of the American dream, rather than despise and

The assertion that the wealthiest 1% of the population controls 90% of

"our" assets is also incorrect. Intuitively, such a pronouncement is an

obvious exaggeration and a simple calculation further illustrates and

confirms this fact. Using Tables 762 and 763 from the Statistical Ab-

stract, the total assets of the wealthiest 2.488 million (approximately 1%

of the U.S. population) "wealthholders" in 1986 were worth about \$3.9

trillion. The total gross stock of fixed, reproducible, tangible wealth in

1986 was valued at \$19.787 trillion; therefore, the wealthiest 1%

controlled 19.7% of such assets. Even this figure is misleadingly high

since the analysis fails to account for the distribution of wealth by age,

but even this exaggerated figure is a far cry from the 90% asserted in "No

Tom Annau Responds

Tom Annau

The following is a point by point rebuttal of Bill Goodwine's critique of my opinion piece in the last Tech:

In his first paragraph, Mr. Goodwine asserts that "the poor, middle class and rich together benefited from the economic gains of the 1980's" without providing any actual figures. The January 11, 1991 New York Times carried a front page story which stated that "The wealth of affluent people grew substantially in the 1980's while the assets of other Americans barely kept pace with inflation, the Census Bureau reported today. ...for the most affluent fifth of all households, wealth rose 14% from 1984 to 1988, after adjusting for inflation. For other households, wealth was not significantly different in 1984 and 1988, the bureau said." This year, on May 11, the Times reported that "The Government released a report today showing that the percentage of full-time workers who earn

less than \$12,195 annually grew

sharply in the last decade, de-

spite the economic expansion that

brought increased prosperity to

the affluent." The Census Bu-

reau study concluded that this

low income bracket had grown

in size from 12.1% of full-time

employees in 1979 to 18% by

James B. Steele cite in their book,

"America: What Went Wrong?":

"Between 1980 and 1989, the

average wage earned by those in

the under-\$20,000 income cat-

egory [49% all employed

Americans] rose \$123 from

\$8,528 to \$8,651. That was an

increase of 1.4%." I hate to dis-

appoint Mr. Goodwine, who

spent an entire afternoon of dili-

As Donald Barlett and

1990.

opposed to absolute values, before and after 1987 are legitimate in comparing data which straddles that date.) If only the wealthy had benefitted from the 1980's, there would have been no change in the distribution of families by income since all of the change would have occurred within the highest income distribution bracket. Contrary to popular, liberal opinion, therefore, the poor, middle class and rich together benefitted from the economic gains of the 1980's.

The assertion that people making over \$1,000,000 have enjoyed a 2,184% increase in salary is ridiculous on its face. Personal experience dictates that the average person making \$1 million today did not make \$44 thousand in 1980. A salary of \$44 thousand per year is certainly above average, but it would satisfy few people's definition of "affluent". Even

attempt to stifle it.

"Contrary to popular, liberal opinion, therefore, the poor, middle class and rich together benefitted from the economic gains of the 1980's."

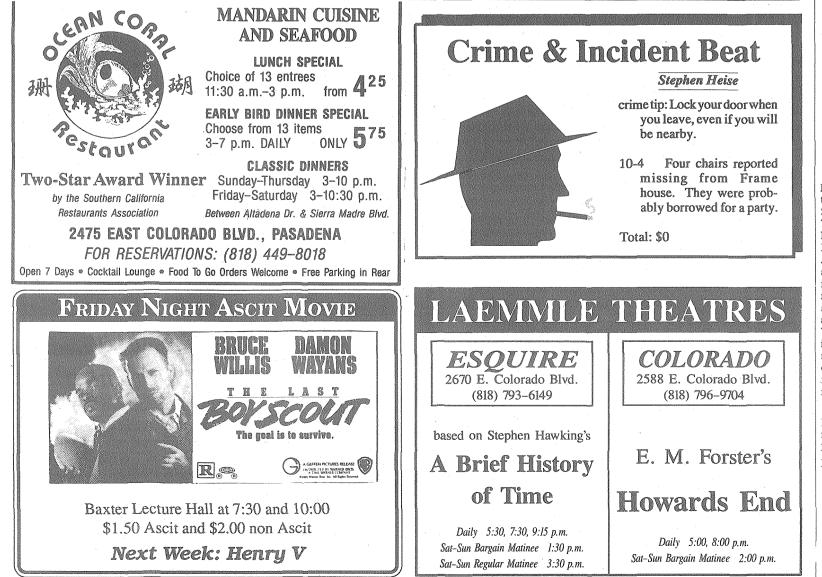
-Bill Goodwine

"... but the sad fact is that the Reagan revolution was a victory only for the rich."

---Tom Annau

gent research in Millikan attempting to dispute the findings of leading economists and government studies, but the sad fact is that the Reagan revolution was a victory only for the rich. As a final note, I would suggest that if Mr. Goodwine still sees the last decade through the rosecolored glasses of Reaganomics, he should drive over to South Central Los Angeles and ask residents whether they feel that they benefitted during the 1980's.

From his argument in the next paragraph, it seems that Mr. Goodwine has deliberately misinterpreted my statement that the combined salaries of people making over \$1,000,000 increased by 2,184% during the eighties. Of course, I was referring to people making over \$1,000,000 at the start of the decade, not the end, as he assumes. A startling statistic is that "total wages of all people who earned less than \$50,000 a year ----85% of all Americans — increased an average of just 2% a year over those ten years. At the same time, the total wages of all millionaires shot up 243% a year. Those figures are not adjusted for inflation "[America:



continued on page 3

continued from page 1 Democratic **Candidates**

compensation system to prevent abuses and to make sure it works for the workers, and a ban on semiautomatic assault weapons. Describing schools as crucial to the state's future, Fuhrman said, "To short change the school system seems to me to be shooting yourself not in the foot but in the head...it is the height of idiocy." Fuhrman characterized his incumbent opponent as an extreme right-wing "Pat Buchanan" conservative.

Responding to audience questions, Fuhrman said that he supported parental choice within in the public school system, but opposed giving out vouchers which could be used to pay for private schools. He came out very strongly in favor of mass transit, discussing how it could be used to encourage development along mass transit corridors.

Rachel Dewey, a physicist at JPL, spoke next. Dewey attacked her opponent, a member of the California legislature since 1965, as a one of a hard-core of Republican legislatures who helped instigate the state budget crisis. Asked what measures she thought should be taken to improve conditions in L.A. which led to the riots, she described a variety of different measures including, tighter gun control, increasing L.A.'s police force, instituting community policing, revitalizing the schools, and creating jobs and community-owned businesses.

To keep abortion is kept legal in continued on page 4

THE CALIFORNIA TECH Volume XCIV • Number 3 October 9, 1992

> EDITORS Rajesh "Q" Bilimoria Michael Oder Christopher Orth

CRIME BEAT EDITOR Stephen Heise

PHOTOGRAPHER Anoop Sinha

WRITERS Debbie Tuttle

BUSINESS MANAGER Khurram Dastgir-Khan CIRCULATION John Grade

THE CALIFORNIA TECH Caltech • 40-58 SAC 1201 East California Boulevard Pasadena, California 91125

(818) 356-6154

continued on page 3

weekly excep tion and vacation periods by Associated Students of the California Institute of Technology, Inc. The opinions expressed herein are strictly those of the authors. Letters and announcements are welcome. All contributions should include the author's name and phone number and the intended date of publication. The editors reserve the right to abridge and edit all submissions for literacy, expediency, or anything else.

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L' Long			

October 9, 1992

continued from page 2 Goodwine More Years."

The notion that the economic policies of Presidents Reagan and Bush "caused" the recent recession is also absurd. No macroeconomic theory was presented to support such a claim and historical economic precedent provides no indication that recessions are triggered by the adoption of supply-side economic policies. Even John F. Kennedy recognized the economic benefits of supply-side economic policies, and advocated a tax cut during his Presidency to improve the economic performance of the United States. Cyclical economic performance is an economic fact of life, and the view that the economic policies of Presidents Reagan and Bush somehow "caused" the recent recession is illogical and incorrect.

"No More Years" also grossly mischaracterizes Republican ideological goals, and furthermore, adopts the style of argument most favored by liberals when their ideology fails to sway public opinion: attacking the character and morality of their opposition by adopting convenient, yet inaccurate "labels" for their positions. Such "labels" are often designed to give the impression that conservatives are motivated by malevolent intent.

Although "No More Years" provides a brilliant display of the usefulness of a thesaurus, beyond its incorrect factual assertions regarding economic circumstances, it amounts to nothing more than an attack on the character and morality of those whose views differ from that expressed in the column. Rather

than "extremist" "ultraconservative dogmatists" motivated by "fear", "intolerance", "racism", irrespon-sibility" and "waste" to impose a "con job" and "cynically" "conspire" to dictate the morality" of us all in an attempt to help only the "affluent," Republicans and conservatives in general are genuinely concerned for the well-being and betterment of all Americans. Unlike liberal Democrats who view the government as the solution to all problems, conservative Republicans recognize the Constitutional and practical limitations of our government, and believe that the individual, rather than the government, is often more effective in dealing with any social and economic issues. Unlike liberal Supreme Court Justices who view the Constitution as an object into which they inject their personal political views. Conservative Supreme Court Justices view the Constitution for what it is: a document which itself must provide the ultimate foundation for any Supreme Court decision.

It is time that the Democrats end their baseless finger-pointing regarding the budget deficit. The Democratic Congress is equally, if not more to blame than the President for the national debt. Clinton's election will serve only to remove the check provided by a Republican President on an irresponsible Democratic Congress. Those wary of "unmitigated disasters" should recall the state of the economy and foreign policy the last time a Democratic President held office with a Democratic House. The only clear accomplishment of the Carter administration was the precipitation of the Reagan Revolution.

continued from page 2

Annau

What Went Wrong?, p.4] I do not oppose success and opportunity, as Mr. Goodwine implies; what troubles me is such staggering economic disparity.

I would like to thank Mr. Goodwine for pointing out a misquoted statistic in my article. I claimed that "the wealthiest 1% of the population ... now control 90% of our assets." This is incorrect. It should have read, "the wealthiest 1% of the population now own more assets than the bottom 90%." The April 21, 1992 NY Times reported that Federal Reserve's triennial Survey of Consumer Finances found that, "The very rich increased their share of the nation's total pool of privately held property during the 1980's economic boom." According to the Fed's survey, the wealth of the top 1% increased from 31% of all assets in 1983 to 37% in 1989; for the bottom 90%, their share went down slightly from 33% of all assets in 1983 to 32% in 1989.

Mr. Goodwine goes on to claim that "historical economic precedent provides no indication that recessions are triggered by the adoption of supply-side economic policies." To the contrary, there are striking parallels between the policies of President Calvin Coolidge (1921-1928) and President Reagan. As historian Charles Beard wrote of Coolidge's trickle-down economic philosophy, "Taxes were to be reduced --- not indeed on goods consumed by the masses but certainly on the incomes of those who sat highest at the American feast. This was to be done, he urged, with a view to leaving more money in the hands of the rich for investment, so that the opportunities of the poor to gain profitable employment might be multiplied." Sound familiar? Interestingly enough, George Bush's economic record is the worst since Herbert Hoover, Coolidge's immediate successor.

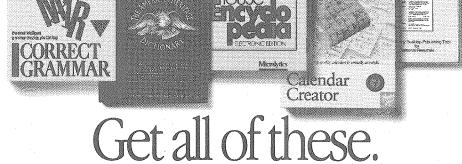
I enjoyed Mr. Goodwine's textual analysis of my article, and particularly his revisionary, patchwork summary of my arguments. With respect to his critique of my writing style, I can only suppose that he prefers the verbless fragments that are the hallmark of President Bush's unscripted remarks. I must differ, however, with his ingenuous belief that conservative justices are somehow more objective than their liberal colleagues. Judicial activists on both sides of the political spectrum bring a personal agenda to the bench. I simply prefer an activist court such as the Warren Court, which greatly strengthened civil rights, to the Rhenquist Court, which seeks to restrict individual liberty in favor of state power, the Constitution nonwithstanding.

Finally, I would like to substantiate my claim that Republican policies led to the unprecedented deficits burdening the economy today. The Reagan policy of decreasing tax revenue while sharply raising government spending, a package which he passed through a Republican Senate, is an obvious formula for increasing the deficit. The nation's first deficit over \$100 billion occurred in 1982, at \$120 billion, a 62% increase over the last Carter deficit; the next year, the figure practically doubled to \$208 billion.

The polls reflect that a substantial majority feel that America needs new leadership. As columnist Mark Shields remarked, this month we are beginning to hear the distant rumblings of an approaching landslide.

This week's Tech meeting is at two o'clock in the Coffeehouse. Come and munch on pizza.



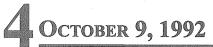


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continuerd from page 2 Candidates

California if Roe-vs.-Wade is overturned by the Supreme Court, she stated that though California's Constitution guarantees the right to privacy, legislation guaranteeing that that includes abortion should be passed by the legislature to protect it explicitly. Another questioner asked her opinion on the death penalty, Dewey said she was opposed to it.

Doug Kahn, who owns and runs a typesetting business in Altadena, strongly attacked his opponent Carlos Moorehead. Calling Moorehead, "the dumbest person in Congress" and a member of "a rotten core of spineless do-nothing Congresspeople." Kahn criticized Moorehead's opposition to the Leave Bill, and Family Moorehead's role in 1986 in the deregulation of the cable industry, whom he claims gave Moorehead two five-day vacations to St. Marks and Hawaii.

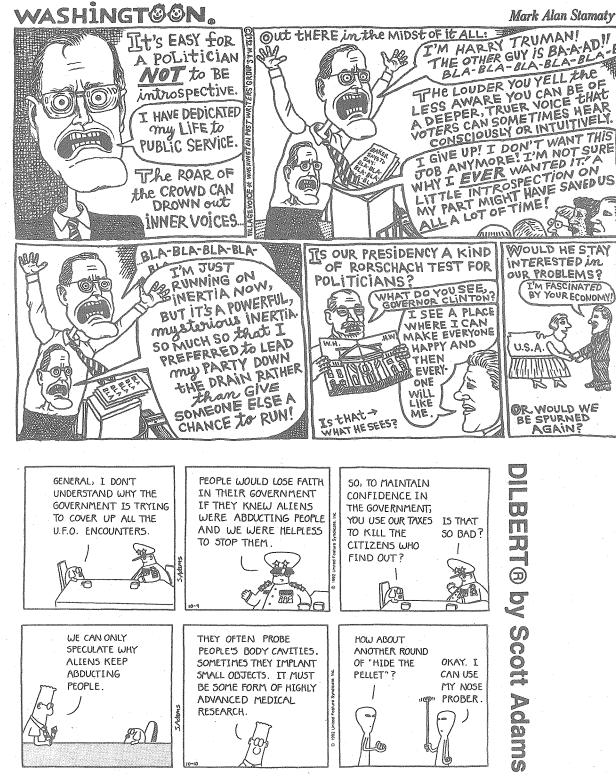
On the issue of national healthcare, Kahn, saying "health-care is a right...we need a system which is seamless", called for a single-payer system such as that used in Canada and many other countries. Asked about his environmental views, Kahn said he saw no opposition between jobs and the environment and that environmental technology was a growth industry which could help the region's economy. He also said that he supported renewal of the Endangered Species Act, which expires this year, and criticized the National Forest Service's logging program saying "we are giving away our national resources for nothing."

He favors withdrawal of American troops from Europe and Asia. In Yugoslavia and Armenia he favored immediate UN armed intervention to empty the concentration camps, comparing the events in Bosnia and Croatia to the Nazi atrocities in WWII. On the question of US aid to Israel, Kahn wanted the Israeli loan guarantees to have been made available without any preconditions, a reference to the President's withholding of the guarantees, on fears that the former Shamir government would use them to build more settlements in the occupied areas.

Kahn called the Manned Space Station a huge boondoggle, wishing instead to fund unmanned probes. He also came out against the proposed \$2 billion dollar Superconducting Super Collider, saying that the research funds should go instead to medium and smallsize research.

Kenneth Saurenman, the Libertarian candidate, spoke last. He criticized government regulation, and many government programs, saying that they were stifling innovation and development. The audience gave him a rather chilly reception.

The election is on November 3, and its important that you find out about the all the candidates, not just the Presidential and Senate candidates. As the election grinds through this last month, we will try to let you hear more from the candidates running for locally-elected offices, many of which can have a direct impact on your life.



THE CALIFORNIA TECH

Attention ALL students...

-come hear

PAUL ORFALEA_ founder and chairperson of Kinko's Copy Centers

discuss

ENTREPRENURIALISM

Offering Fresh Ideas on Eating Right for Breakfast, Lunch and Dinner

NUTRITIOUS BREAKFAST Offering a variety of Eggs, Omeletes, Hot Cakes, Fresh Fruit, Yogurt and much more...

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at the Hall of Associates in the Athenaeum

on

Monday, October 19th

4 pm

Refreshments served on east patio following the talk where you will have the opportunity to speak with Paul Orfalea informally.

- Casual dress is a must!

If you have any questions about the event, please contact the Annual Fund office at 356-6323.

To the Class of 1996:

We wanted to Thank You for sharing your lives with us.

We read every single word you wrote...

We laughed with you because of your humor, We cheered for you as you triumphed, We stood beside you as you reached for your dreams,

May you find ways to use the talents and gifts,

That make each of you special,

In your quest for the truth.

With all of our hopes and best wishes,

- The Undergraduate Admissions Office

ps: Live it up now (before you have to take 95).

Bridge Without Sam

Jeff Goldsmith

And Underruffing

Playing in the first round of a Midnight Swiss with five-minute boards, we draw probably the second best team in the event. We have started late, so I have little time to think when I pick up this gem:

North	South
▲ J109765	∲ AQ
♡ 10943	♡ AQJ75
◊-	♦ J1062
	∲ J10

The bidding is as brief as it is inaccurate. I open $1\heartsuit$ and my partner

jumps to game. 4 hooks a lot better as is normally the case when a weak

hand has a long suit, but 40 is certainly playable, and getting to game

The bad guys lead a diamond, which I think is good for them. Tapping

dummy may make the spades useless, but I must win the first trick with

a low trump on the board. This is as good a time as any to take the spade

finesse. Who knows, those things don't always not work. Surprise! This

time the Queen holds. I cash the Ace and unfortunately, the King does

not drop. It must be right to ruff a diamond to dummy and set up spades.

I ruff the third spade with the Queen, hoping to be overruffed, because

I might have reentry to dummy then with trumps, but the Queen holds.

is a triumph, provided, of course, that I make it.

I can now ruff a diamond and lead a good spade from dummy, but I think that will mess up my planned end position, so I exit with a club. They take their two clubs and continue with a third, which I ruff in hand. Now I ruff a diamond

and ruff another spade with the seven. If it holds, I am cold by continuing with a low heart, but LHO overruffs and goes into the tank with these cards remaining:

North & J10	South ♠ -
♡ 10	♥ AJ5
· 🛇 –	◇ -
<i>ф</i> -	

He finally plays a club which I ruff in dummy and underruff in hand with the five. The lead of a spade from dummy allows me to take the trump finesse successfully one more time and I manage 10 tricks for a big swing on the board and a close win in the match.

This position of the underruffing grand coup at trick 11 is very rare. I had only seen it before in Terence Reese's classic Master Play at Bridge and feel very lucky to encounter one in real life.

The Caltech Bridge Club meets every Monday night at 7:15 in Winnett Lounge. Everybody is welcome; call Jeff Goldsmith at x2818 for details.



continued from page 1 **Don Shepard**

your life?" We all said yes.

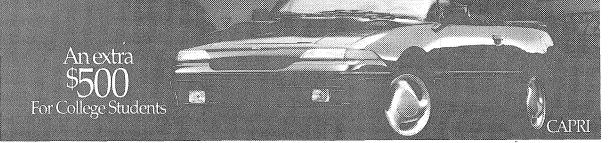
When we were informed that it was time, the only thing that I was worried about was getting airsick on the ride up. I met my two Jumpmasters, who would hold onto my arms and legs during freefall and correct my form in the air. Jerry, my main side jumpmaster, was quiet and serious as I was suited up, while Larry, on my reserve side, was a complete goofball. When I had all my equipment (jumpsuit, altimeter, goggles, helmet, one-way radio, and parachute pack), we headed out to the airstrip and loaded the DC-3.

Inside the plane, things were cramped. We sat on the floor like you sit on a log flume, with your legs around the person in front. After we took off, the air grew cool quickly and the sound of the engines was so loud that you had to shout to be heard. I tried to sit quietly and review what I'd learned in my head, but everyone around me was in a flurry of activity, checking altimeters and tightening straps, and the cameramen were testing their cameras. The cargo bay had no real door, just an open doorway, and I watched the blue sky as we climbed to 13,000 feet. I was lucky and didn't get airsick.

"Ready, set, GO!"

We almost flipped as we left the plane and I saw ground, sky, and ground in rapid succession. I forgot everything that I had been taught and my first thought was, "That's the ground down there!" My second thought was, "Ooops! I'd betcontinued on page 7





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continued from page 6 Skydiving

under control. There was no ver-

tigo, no roller-coaster sense of fall-

ing. The wind blew loud and fierce

in my ears. It felt like I was floating. Those are my primary impressions

of skydiving. I completed my

freefall exercises without incident

and even had time for a bonus turn.

We had exited the plane at 12,500

feet; I pulled my ripcord 50 seconds

except for the flapping of the canopy

over my head. I looked up and no-

ticed that my parachute lines were

tangled, and didn't panic, but un-

tangled them as I had learned in

class. A voice spoke in my ear and

I remembered that I was wearing

earphones and a one-way radio. The

owner of the voice, who was direct-

ing both me and Matt, occasionally

told me to turn some number of

scenery, looking at the mountains or watching the sunset, picking out the buildings we had been taught to recognize as landmarks. It took about ten minutes to float down. I landed hard and stumbled, getting dusty, but I got up and thought, "Yes! I didn't break anything!" as I mechanically began to collect my chute before the wind could catch it and blow me over. It was only then that I realized that my parachute

The rest of the time I enjoyed the

degrees in a given direction.

Suddenly everything was quiet

later, at 5000 feet.

The Sweaty Smell of Victory

ter arch my back like they told me to," and after that, I had everything

Ah, the sweet (or rather sweaty) smell of victory. The Caltech Women's Volleyball Team won their first match of the season against the La Sierra Eagles Tuesday night under new head coach Cathy Monteroso.

We drove to La Sierra (in rush hour traffic), we saw the other team (in their dimly lit OLD gym), and we proceeded to CRUSH them ... but not until the second game. Unanswered La Sierra points stacked up in game one due to poor Caltech passing, a problem which has plagued us in past matches. Yet, over the roar of the Eagles' home crowd, you could hear Katie Coughlin's serves whiz past our befuddled opponents. ACE! The Beavers began to make a comeback - but a little too late. Game one ended 8-15 La Sierra.

So like, Taletha has this theory that the team to score the first five points in a game will win that game. We tried it out and found the theory held true. Game two: 15-6 Caltech. Wow... Everyone huddled around Coach Monteroso and the team decided to test that theory again. Game three: 15-10 Caltech. T, Katie and Amy were digging those balls left and right... Katie and I had quite a few kills (and they felt sooooo good!) thanks to Angie's FAN-TASTIC setting. Christy was an animal, an ace here, an ace there, a block here and kill there. Shazaam!

Then all of a sudden, oops - game four. It was that same old passing problem creeping up on us, sort of like underwear creeping up on you in a game... Our bench was so incredibly supportive, full of energy and LOUD! - their bench was desolate, lonely and fearful. We lost, despite excellent efforts on the part of the whole team (and the fact that our shorts are just sooo much more fashionable than theirs.) Game four: 8-15 La Sierra.

This Week In Caltech Sports

Womens' 10/10	Volleyball 7:00 PM	vs. Pacific Christian
Mens' Soc 10/14	ccer 4:00 PM	@Claremont-Mudd
Mens' Foo 10/11 (JV)	ot ball 1:00 PM	@ U.C. San Diego
Mens [°] Wa 10/10 10/11	ter Polo TBA TBA	@ Cal Maritime@ Cal Maritime

Down to the last game - sweaty palms syndrome set in...

"You can do this, you can beat this team - you are better than them." Coach always had encouraging words - especially with that Southern twang.

"Go for it!" the whole team shouted and we broke the huddle to play game five.

This is what happened, BOOM BOOM BOOM - one excellent Caltech serve after another, and on the few occasions La Sierra was able to get the ball back to us we'd pound it into their faces. YES! Game five: 15-2(!!!) Caltech.

Come out to the next home game, Tuesday, October 13th at 7:00 p.m. in the NEW Braun Center. The Beavers will be playing Life Bible College. It's a Tuesday night, what else are you gonna do?

ill win that game. found the theory 10/10 7:00 PM

hat the team to score the first five 8-15 La Sie	erra. Caltech serve after another, and on
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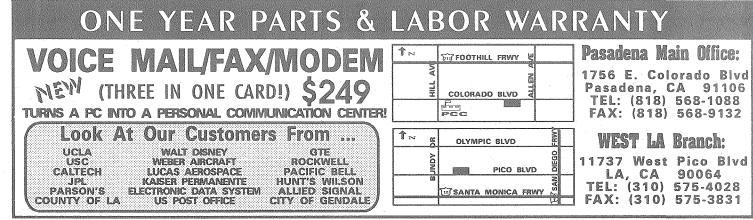
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WHAT GOES ON

NOTICES

Caltech Film Club - The Caltech Film Club holds meetings every other Wednesday in SAC room 25 at 8 pm. For further information contact Alex Protopapas.

Holiday Crafts Faire - Student Activities is sponsoring a craft fair on Dec. 8th and 9th. Anyone interested in selling or participating, contact Elizabeth Sheiman at x2935 for an application or information. Participation is free to all members of the Caltech community.

Caltech Y Excomm meeting - The Y invites anyone who wishes to cosponsor an event to attend on the first or third Monday of each month at 2 pm in the Wes Hershey lounge on the second floor of Winnett.

Caltech Environmental Task Force - Join us in helping the Caltech community become more environmentally conscious. The meeting is in Winnett clubroom #1, at 5 pm on Wednesday. For more information call Debbie Bradbury at x3630.

Attention Graduate Students - The NSF Graduate Fellowships applications are here. You make pick them up in the Career Development Center, located in room 08 of Parson-Gates.

EVENTS/SERVICES

Friday Prayer - Prayers organized by Caltech Muslim Students are held in the Caltech Y lounge at 12:30 pm every Friday.

Caltech Hillel/Jewish Community Weekly Meeting - An informal gathering, every Thursday at noon in the Y lounge. For information call Caty Konigsberg at 213-259-2959

Mass - Thursday at 8:15 in the Y lounge and Sunday at 10 am in Winnett lounge. Sacrament of Reconciliation(confession) is given 20 minutes before masses. Refreshments are served after mass.

Bible Study and Discussion - Every Wednesday at noon in the Y lounge. Bring your own lunch. For more information call Mike Gerfen at 356-4886.

Caltech Lesbian and Gay Society - National Coming Out Day is October 11. CLAGS will celebrate the following week with two events. Our opening meeting will be Tuesday, October 13, at 7:30 pm, in Clubroom 1, on the second floor of Winnett. Come join us for this get-acquainted meeting. We will watch the film "Tongues Untied", and refreshments will be provided. Later in the week, we will attend the Wild West Extravaganza II in Sierra Madre on October 17. This is a benefit for Project 10 and features a BBQ dinner, Country and Western Dancing, and entertainment. Tickets are \$35, but thanks to the Caltech Y we have a limited number for students at \$15. Call Lynell Jackson at x2109 for more info. Model United Nations Meeting - A simulation of the United Nations meeting on the balcony of Winnett at 8 pm Thursday night. For more information call Wes Boudville x4293.

Open Line - Open Line meets every Tuesday in the Y lounge upstairs during lunch, between 11:30 and 1:00. Topics discussed include developing a youth center for ages 5-12 fortutoring services, activities and cultural development for the children of Caltech students, staff and faculty, developing a multicultural book for the understanding of all nationalities, traditions and customs. Open to all of the Caltech community.

Poetry Workshop - In the Y lounge from 7:30 to 10 pm on the second and fourth Tuesdays of every month. For information call Silvania Pereira at 356-8343.

The CIT-KNIT Group meets at noon on Tuesdays in the Benioff Conference Room (Rm, 256 S. Mudd). For all levels of knitters. Come and join us.

Preschool Playgroup - The Caltech Women's club sponsors structured activities for mother's, father's and their children, on Tuesday, October 13 in the Caltech Villa Apartments, from 10 am to noon. For further information contact Valerie Murray at 287-8960.

Baby Furniture Pool - The Caltech Service League loans out baby furniture to students and postdocs on Wednesday at 324 S. Chester from 10 to 11 am. For more information call 952-1631.

ENTERTAINMENT

Aman International Music and Dance presents a divers program of ethnic dances from around the world. The repertoire includes dance form Central Croatia, Dalmatia, Tadjikistan, Mexico, Northern Ukraine, Macedonia, Appalachia and other regions. Call x4652 for more information. Individuals with a disability call x4688(Voice or TDD). Tickets can be purchased at the Caltech Ticket Office.

"The Two Gentlemen of Verona" - The California Shakespeare Festival will perform Shakespeare's comedy of infatuation, rivalry and unbridled jealousy. In Beckman Auditorium next Saturday, October 17 at 8 pm. For information call x4652. Tickets can be purchased at the Caltech Ticket Office.

Science Fiction Genius - S.P.E.C.T.R.E.'s first meeting of the year features two movies about the troubled lives of geniuses. Can a brain surgeon/rock star save the world from Rastafarian space aliens in "Buckaroo Banzai?" See if Val Kilmer spots the appearances of D.E.I. on the walls in "Real Genius" (which was filmed partially on campus for those frosh who don't know any better.) Share and Enjoy October 13th 7:30pm in Room 35 of the S.A.C. Please contact Gorm Nykreim @568-9168 with any questions "The Last Boy Scout" - This week's AS-CIT movie, starring Bruce Willis. Tonight at 7:30 and 10 pm, in Baxter Lecture Hall. Admission is \$1.50 for ASCIT members and \$2.00 for nonmembers.

"Der Schritt Vom Wege"(c. 1940)-Filmed in the early 40's, this is an earlier version of the 1974 work by Fassbinder and Hanna Schygulla which made famous Fontane's novel "Effi Briest". Directed by Gustave Grundgens and starring Marianne Hoppe and Karl Ludwig Diehl, the film will be screened in Baxter Lecture hall on Thursday, Oct. 15. (The Fassbinder interpretation will be screened on Nov. 12)

The Pasadena Folkdance Co-op offers beginning and intermediate instruction every Friday at 7:45 pm in Throop Unitarian Church on the corner of Los Robles and Del Mar. A program of varied international dances follows the instruction at 9:00 and continues until 11:00. Wear soft-soled shoes. A contribution of \$1.50 is requested.

International Folk Dancing - Tuesday night in the Dabney Lounge. Beginning instruction starts at 7:30 pm; intermediate at 8:00 pm and open dancing takes place from 9:00 till midnight. Donations are accepted for more information call Mike Mckenna (310) 692-0366.

Israeli Folk Dancing - Sunday in Winnett lounge, Beginning instruction starts at 7:30 pm, intermediate at 8:00 and open dancing gores on from 8:30 to 10:30. For information call Nancy Macmillan at 795-3655. Admission is \$2.00.

Scottish Country Dancing - On Wednesdays in Dabney Lounge from 8 until 10 pm Beginners are welcome and no partners are needed. For more information call David Hills at 354-8741.

Music with James Boyk! - Pianist James Boyk gives a performance each Wednesday from 4:30 to 6 pm in Dabney Lounge. The performance is open to the public and free of charge. Feel free to come late or leave early. For more information call x6353.

Lectures/Seminars

Film Development Class - Tim Shoppa of Dark Room Users Group will teach a class on black and white film developing technique Sunday, Oct. 11, at 2pm in the dark room (SAC 39). Contact Tim Shoppa, x4256, or Alex Zeyliger, x6171, or e-mail drug@cco.

"Rumor of Illness: Disease in the Genetic Age" will be presented by Dr Paul Billings, Chief of Medical Genetics at the California Pacific Medical Center in San Francisco, at 4 pm on Thursday, October 15.

Enhance Your Telephone Effectiveness -Cynthi Knight will lead a workshop aimed at teaching effective telephone techniques. The three hour course will include such topics as first impressions, answering, holding, handling difficult callers and what to say when. The workshop, sponsored by the Caltech Human Resources Department, will be held on Oct. 15 form 9am till noon in Winnett #1. Fo enroll call Ronae Brooks at x6375 to eserve a place.

SCHOLARSHIPS & COMPETITIONS

USA Today - USA Today is beginning its annual search for the nations best college students. Sixty will be named to USA Today's 1993 All-USA Academic Team. Chris Ho won last year. The twenty first team members will receive a \$2,500 cash prize and their awards in a ceremony in Washington D.C. Winners will be selected by a panel of judges who will select students excelling in scholarship and leadership roles on and off campus. For copies of the application form send your campus mail address to editors@tech.caltech.edu.

The Future of Computing - The Institute of Electrical and Electronic Engineers Computer Society, NCR Corporation and Computerworld magazine are sponsoring a \$60,000 international essay contest on the future of computing. The contest is open to undergraduate and graduate students. First prize is \$10,000 and a NCR notebook computer. For more information, send requests to editors@tech.caltech.edu.

Putnam Mathematical Competition - Both team and individual prizes will be awarded. The five highest ranking individuals are designated Putnam Fellows by the Mathematical Association of America and receive individual prizes. The competition is open only to regularly enrolled undergraduates, who have not received a college degree. The competition will be held this year on December 5 in Sloan, sign up before Oct. 13 if you wish to take it.

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

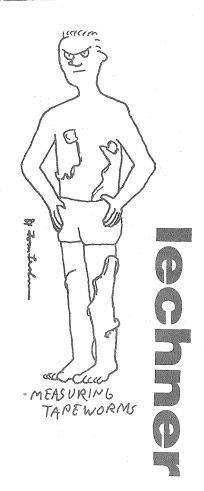
The Data Processing Management Association is offering three scholarships for \$1,000 each provided by the Bert A. Monaghan Systems Management. The scholarship committee must receive the application by November 20, 1992.

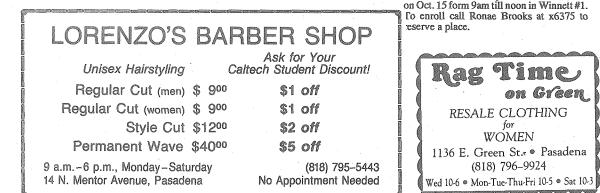
The Northrop Corporation is offering a \$3,000 scholarship at Caltech for the 1992-93 academic year. The scholarship is open to freshmen through seniors in Electrical Engineering, Mechanical Engineering, Acrospace Engineering, Computer Science/Engineering or Manufacturing Engineering. Students must show evidence of a strong academic record and a career interest in the aerospace/defense industry. The applicant must be a U.S. citizen and may be a concurrent recipient of another company's scholarship. Resume's and academic transcripts must be received by the FAO by 5:00 pm, Friday, October 30, 1992.

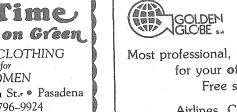
The American Physical Society (APS) is offering \$2,500 scholarships to African-American, Hispanic-American or Native-American undergraduate freshman or sophomore students majoring in Physics. The deadline to submit completed applications to APS is February 26, 1993. Hughes Predoctoral Fellowships - The Howard Hughes Medical Institute will award 66 fellowships toward a M.S., Ph.D. or Sc.D. degree in biological sciences. The fellowships provide an annual stipend of \$14,000 and a \$12,700 annual cost-of-education allowance, effective June 1993. The fellowship is for both U.S. and foreign students and is aimed at students whop have completed at least one year of graduate study. The application deadline is Nov. 6. Call (202)334-2872 for an application.

Fritz B. Burns Prize in Geology - Undergraduates in the division of Geological and Planetary Sciences are encouraged to apply. The award(s) will be made up to \$1,500 for the best proposals for undergraduate research in the fields represented by the Division. If interested, submit a short statement(less than one page) describing the research you would like to do. The submission deadline is December 1, and they should be sent to Professor Kerry Sieh, Division Academic Officer, Division of Geological and Planetary Sciences, Mail Stop 252-21.

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