

Photo by Anoop Sinha.

Students select books for their second term classes on the second day of classes. The bookstore is currently under renovation.

The New Year Brings a New Cycle of ASCIT Elections

Ewald Hueffmeier

A new year has begun and with this new year have come a new President and Congress. At Caltech, the new year brings with it a new term and, you guessed it, ASCIT elections. Yes, nothing lasts forever, and sadly enough, the terms of the current Board of Directors are about to expire. With this sadness, though, comes opportunity: opportunity for ambitious, energetic individuals who desire to serve on the Board of Directors of our favorite corporation, affectionately known as ASCIT. Think of it: power, prestige and popularity all for the price

of only a few grade points.

Seriously, though, ASCIT elections are about to begin and, as Election Chairman, my job is to make sure they run smoothly. I believe that in order for this to happen, it is necessary that everyone understand the procedure from the outset. Please read this even if you are not a freshman and you think you know what is going on. There have been a few changes in the last couple of years and it is vital that everyone understand the rules.

At 8 AM on Wednesday, January 13, nominations will open for ASCIT President, ASCIT Vice-President, and Editor(s) of the *California Tech*.

The exact duties of all officers is described in the Bylaws in the *little t*. Basically, though, the President, who cannot be a freshman, presides over all ASCIT Board meetings and serves as the official representative of ASCIT. The Vice-President, who also cannot be a freshman, is chair-

man of the BOC (Board of Control) and, during absences of the President, assumes the duties of that office. The many responsibilities of the Editor of the *California Tech* are delineated in Article 14 of the Bylaws, but note that a group of people can hold this office.

Nominations for these offices

ASCIT Election '93

must be submitted to the current ASCIT secretary, Korhan Gürkan: Box #565, in writing, and be signed by the nominee. Nominations close at 5 PM on Tuesday, January 19.

On Monday, January 25, there will be an election for these three offices. In this election, one can vote for a nominee, write in the name of any qualified person, or vote "No". Note that if "No" wins

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Neil Brandt Named Finalist in A.P.S. Competition

Neil Brandt has been named a finalist in the 1992 Annual Apker Award Competition of the American Physical Society. Brandt received this designation for his work with Professor Tony Readhead and Senior Research Associate Charles Lawrence entitled "Work Towards a Measurement of Cosmic Microwave Background Anisotropy."

The Apker Award of the American Physical Society is presented annually to an undergraduate with an excellent academic record who has "demonstrated exceptional potential for scientific research by an original contribution to physics." The winner receives \$3000.00. All four finalists were asked to give (expenses paid) invited talks at the Spring Meeting of APS in Washington, D.C.

The purpose of the Apker Award is to recognize outstanding achievement in physics by undergraduate students and thereby provide encouragement to young physicists who have demonstrated great potential for future scientific accomplishment.

The award was established as a memorial to Dr. LeRoy Apker, who had a distinguished career as a solid state physicist at General Electric, through an endowment donated by Jean Dickey Apker to The American Physical Society.

In brief, Brandt's research is directed towards a measurement of anisotropy in the 3° cosmic blackbody radiation on angular scales much smaller than those resolved in the recently announced COBE results.

He has made significant observations with a new microwave receiver on the 5.5 meter Owens Valley telescope, and has carried out a very useful study concerning the optimal operating parameters and ability to separate signal from noise for a sensitive multi-frequency radio interferometer that Caltech plans to build.

Eventual detection of anisotropies in 3° blackbody radiation at the angular scales considered by Brandt would provide information on density fluctuations in early clusters of protogalaxies, and would be useful in tandem with the larger-scale COBE results in describing the spectrum of fluctuations.

Caltech's Physics Undergraduate Committee (Ricardo Gomez, Chair) selects Caltech's Apker nominee each spring after considering the senior theses presented by our physics majors, plus any other outstanding physics research the committee may be aware of by an undergraduate. The top four candidates from around the country are

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Important Election Dates

Jan. 13: Nominations for ASCIT President, ASCIT Vice-President, and Editor(s) of the *California Tech* open.

Jan. 19: Nominations close for Pres., VP, and Editor(s).

Jan. 25: Initial election for Pres., VP, and Editor(s).

Jan 27: Nominations for remaining ASCIT offices open.

Jan 29: Runoff election for Pres., VP, and Editor(s).

Feb 2: Nominations close for remaining ASCIT offices.

Feb 8: Initial election for remaining offices.

Feb 12: Runoff election for remaining offices.

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LETTERS

To the editors,

On Monday, January 18, 1993, the Institute will present its annual King Day Observance to honor the legacy of Dr. Martin Luther King, Jr. This year marks the 35th anniversary of Dr. King's visit to campus. All members of the Caltech Community are invited to attend the events of this public observance.

The first event will be a noontime musical celebration at the Winnett Courtyard, featuring the 35-member "Voices of Zoe" choir. During an intermission, an award-winning local African-American youth, Randall Towler, will provide dramatic recitations from two of Dr. King's speeches. (In the event of rain, the event will be moved to Ramo Auditorium.)

The second event will be the traditional 1:05 p.m. observance in Ramo Auditorium. This year's featured speaker will be Alex J. Norman, professor emeritus of so-

cial welfare planning at UCLA. His speech will be "The Continuing Legacy," and he will be available for questions afterwards. Also speaking will be Dr. Doug Flamming, assistant professor of history at Caltech, who will discuss "Civil Rights Leaders Before King."

When class meetings conflict with this observance, faculty members are urged to inform their students of this special campus event and to make every effort to accommodate all those who wish to attend. Staff supervisors are also strongly urged to make similar efforts to accommodate any Caltech employee wishing to attend; members of the Caltech staff who can arrange to attend shall neither be required to take vacation or sick time, nor be required to make up the time spent at the observance.

Thomas Everhart
President, Caltech

Ask Not . . .

Rajesh "Q" Bilimoria

Check out that front page, kids. Nominations for the major ASCIT offices go up and down within the next eleven days. My, my, unpack that ambition and nominate yourself for something.

Seriously, it's time to think of your place in the "Caltech Community." I'll be the first to admit that there are a great number of issues, academic and social, that need to be dealt with in order to increase the quality of student life here. And I complain... a lot. I used to complain about the quality of *The Tech* before I ran for office. Then I decided to do something about it, primarily because I thought I was qualified and that I had the time. I think I am qualified. No one has the time. But I did what I could. I always hear a lot of talk about how horrible life is here, but how many people actually take action to change Caltech?

Now it's your turn.

I can only tell you about being Editor of *The Tech*, since that's the office I held. Here's what happened. In a fit of inspiration, Mike Oder and I decide that we think we are more qualified than freshmen to edit *The Tech*. I recruit Chris Orth as our third. We made fliers like madmen. We win. Then we had to perform. In our statements, we had pledged to improve *The Tech*, to add more photographs (we did), to improve sports coverage (we did), to improve the entertainment section (we tried, with limited success).



I remember reading one of the previous editor's editorials that was published about a year ago. In it, he described his and his colleagues goals and ambitions for *The Tech* and how they had and had not been met. We, too, had great vision. We have made a desperate effort to make *The Tech* a better newspaper. Without the high goals we set, we would not have made as much progress as we have. Following our election, we quickly learned that we had become much more than that. We became writers, I resumed photography, we even sold a few ads. Editors—in the loosest, most liberal sense of the word. Indeed, initially, I don't think we edited very much of anything! Things didn't exactly turn out the way we planned. It's quite amazing how quickly twenty hours of my week slipped by those first few weeks. As time went on, we became more efficient, and we were able to spend less time on *The Tech*.

But for all the hours and grades that I sacrificed for *The Tech*, I think it's been worthwhile. I believe we have made *The Tech* a better newspaper. Our biggest mistake, was not realizing, before we ran, that there was effectively no staff. Our predecessors made *The Tech* better than it was when they took office. And we've taken it higher; we recruited a few writers and a photographer and we've improved the look of the paper. Gradually, *The Tech* is improving.

What can you expect? If you run, and are elected to this office, here's what you will receive: some pretty cool computers, a lot of wax, and a bunch of junk mail. But most importantly, you get a staff. The staff is small, but it does exist. Primarily composed of freshmen, I believe that we have been fortunate to have the writers and photographer we have. You will also get several weeks to reflect. You will take office at the beginning of third term.

You may wonder why I am urging people to do something that consumes so much time and doesn't help your grades at all. Because, although we are all here to receive an education, it's not all that matters here. Your social education, your sense of fulfillment, and your other experiences are important.

I hope that some very qualified individuals choose to run for this office. And I hope they have the good fortune to be elected. And even if you don't want to commit to running for office, think about what you can do for this campus and for your fellow students. Whether you get involved with the Y, student government, or *The Tech*, you will make a positive difference. *The Tech* always need new staff members. If you're interested in running for Editor or just working on the staff, please talk to us. Our next meeting is today at 12:15 in the Coffeehouse. You can also feel free to contact me in Ricketts. Act now. Because if you don't improve your environment, be it your newspaper or your student leadership, no one will do it for you.

continued from page 1

Brandt

designated Finalists and are invited to New York to present their work before a Committee of APS leaders which, in 1990 for example, consisted of Eugen Merzbacher, Nicolaas Bloembergen, and Walter Massey. Following the examination the finalists and Committee members repair to a Chinese restaurant to have dinner together.

In each of the past three years, a Caltech senior physics major has been designated a finalist, though Caltech's last winner was Gerald Wong (1987). In 1990, Tom Lenofsky was selected for his work on multiple pulse sequences for magnetic resonance imaging of solids, performed under the supervision of Professor Dan Weitkamp. In 1991, Mike Youssefnir, under the supervision of Professor Mark Wise, explored heavy quark physics.



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Daily 5:30, 8:30 p.m.
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12-4 (morning) A staff person parked his car in front of Steele House for the day. While he was away, someone broke out the rear window of the vehicle to gain access to it. The stereo/tape player was stolen. (\$300)

12-4 (noon) A car parked on Arden Road had one of its windows smashed. Nothing appeared to be stolen. (\$200)

12-4 (afternoon) A car parked at the Tournament Park lot had one of its windows broken. A stereo/tape player was stolen. (\$450)

12-5 (evening) A car parked at the South Lura lot had its passenger window removed. A stereo/tape player was stolen. (\$250)

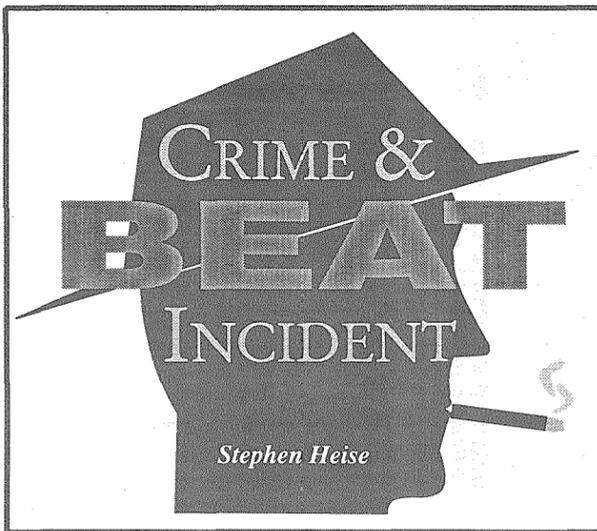
12-7 (morning) A staff person's car was said to be on fire in the Chester lot. It is reported that the voltage regulator malfunctioned causing an electrical fire. The fire department cut the electrical power which stopped the fire. (\$500)

12-7 (evening) A transient, age 65, was found sleeping in a garage on Hill Avenue. He was advised by Security that he was trespassing on private property. He left without incident.

12-7 (daytime) A vehicle parked at the Wilson parking structure had its passenger window smashed. Since nothing was stolen, it is suspected that the car alarm frightened off the perpetrator. (\$300)

12-8 (afternoon) A suspicious person was reported attempting to sell a calculator on Bechtel Mall, then leaving to snoop around Kerckhoff, and then later going to the seventh floor of Millikan library where he set to cutting out paper hearts with a pair scissors he removed from a desk. A search of the area was made by Security, but the suspect could not be located.

12-8 (afternoon) Another suspicious person was observed sitting at a bench on the south side of Crellin Lab. He asked the person next to him if he could smoke a cigarette. She stated that she had no objection. The suspect then proceeded to reach into a butt can, remove a partially smoked cigarette someone had discarded and light it.



12-11 The Holliston lot officially closed. It will reopen years from now as a parking structure.

12-11 (afternoon) A middle aged man was found babbling loudly to himself in a Physics building. When questioned he stated that he was a Psychologist looking for a job.

12-11 to 12-12 A flannel jacket stolen from a locked office in Geology. It was left on the back of a chair. (\$60)

12-10 to 12-13 A bike left in Ricketts was stolen. Its chain was cut. (\$150)

12-12 (night) A Trek bike left in Dabney had its front and back wheels stolen. (\$200)

12-12 to 1-1 A bike left in Dabney was stolen. (\$100)

12-12 (1:45pm) The Ath tunnel door alarm was responded to. The door was apparently drilled and attempts were made to pry it open. A hatch to the outside was found with its chain cut. No suspects were found.

12-9 to 12-14 A CD player was stolen from Dabney Hall. (\$200)

12-14 (afternoon) A car stereo was stolen from the Tourna-

ment Lot. (\$100)

12-18 (1:20pm) A CD-ROM drive was stolen from Booth Computer Room. The room was occupied by Pac Bell and Caltech personnel. (\$553)

12-21 (night) A bike left at Catalina was stolen. Its chain and lock were left intact. (\$50)

12-22 to 12-28 A CD-ROM drive was stolen from Jorgensen IBM-PC lab. The security cable was cut. (\$600)

12-23 (evening) A briefcase left for a moment on San Pasqual Walk walked away. (\$100)

12-28 (10am) A teenager was found soliciting money on the streets near Catalina. He was wearing a white cloth with eyeholes cut into it.

12-30 (1pm) A leaf blower momentarily set down near the Ath was stolen. (\$400)

12-31 (12noon) After filtering P-32, a Biologist discovered that his right hand was emitting 500 counts per minute. After washing, the count dropped to 45 per minute.

1-2 (early morning) A 6" diameter hole was cut in the catwalk door of North Mudd allowing entrance. No suspects were found.

1-2 (afternoon) A bike left outside of Booth for two hours was stolen. (\$100)

1-2 (night) An attempt was made to steal a car parked on San Pasqual.

1-5 (2:40pm) A backpack left momentarily in Millikan was stolen. (\$120)

1-6 (daytime) A rear window was broken out and a stereo stolen from a vehicle parked at the Wilson parking structure. (\$300)

Four Week Total: \$5033

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ENTERTAINMENT

ASCIT BOD Minutes from Jan. 5, 1993

Korhan Gürkan

Present are the BOD (minus Ben and Amit), Cathy Hafer, Karen Hong, Ewald.

The ASCIT BOD wishes everyone a "Happy New Year". (It was Derek's idea.)

Since our fearless leader is still flying towards LAX, Mike is the chair for tonight's meeting.

Women's Center: Cathy and Karen fill us in on what's been going on. Karen, the only undergraduate on the Search Committee, tells us her side of the story. There are actually two committees for picking the director. The Search Committee is currently screening resumes. Then, there will be another committee formed to conduct interviews and Dr. Kennedy wants Karen to help pick more undergrads for the second committee. However Dr. Kennedy is not comfortable with mechanisms like the ASCIT BOD appointing people. This whole situation seems to be very messy. It looks like both sides have some bad feelings for each other, but no one knows how it got started. Rod is trying to find a compromise. On the other hand, Cathy wants to organize a big get-together for undergraduate women to inform them on the Women's Center and to get some feedback on the issue. The BOD thinks it is a good idea. The details will be discussed later.

Dean's Bench: Dean Brennen "Remain Calm" Bench is done. However, we need to get the plaque done. The BOD appoints Ben to find an outside company for this task.

ASCIT Elections: Ewald has the whole timetable for the upcoming ASCIT Elections. If you are interested in running for an office, please read Ewald's article on the election.

Nominations for President, Vice President and Tech Editor(s) will open on Wednesday, January 13. The signups will be outside the ASCIT Meeting Room in the first floor of Winnett Center, and will close on Tuesday, January 19. You should also submit a written statement to me stating the office you're running for by that time. I can be reached at 564-1260 or Korhan Gürkan, ASCIT Secretary, Box 565.

The BOD tables the discussion for the need of a presidential debate until after nominations close. It is also decided that the installations dinner will be held on March 1st. (7-0-0)

Hey, look who's here! Amit is back.

3-2 Program: The Faculty Board

will decide on the future of the program this month. Amit is thinking of conducting a survey among undergraduates for some feedback.

UROH: June has gotten only 36 responses from the 750 letters she'd sent out for the research opportunities handbook. She'll send a second notice to about 350 faculty members.

Jon's Committee: Jon submits his expanded committee for approval. There are about 10 members and all houses except Fleming are represented. The BOD approves. (6-0-2) Also, Jon is working on the organization of the Student/Faculty Conference. He is sending out letters to all the department heads.

cerebral laundry

Khurram Dastgir-Khan

My Career In High Finance

Returning to my lodgings immediately, I tore off the tie and shirt. Put on my Magellan t-shirt, denim jacket and left immediately to attend—what else?—AMA 95 recitation session. Thus ended, dear reader, my meteoric, short-lived stay in the rarefied airs of high finance.

It started with the fantasy sheet put out by the on-campus dream merchant; Career Development Bulletin. One name among the fantasies caught my fancy. Goldman Sachs. One of the most successful investment banks in the world with 1992 pre-tax earnings upward of \$1.2 billion (nine zeroes). Sachs pays its chief executive \$15 million a year. One person earning that much in a mere 365 days! Wow!! I wanted in, and they were offering positions in their research department.

I put my name down for an interview, and walked around campus with glazed eyes. Dreams of high life whirled in my head. Glitzy New York, a villa in the Hamptons on Long Island, staying at the Ritz-Carlton, a show-stopper of a car.....I confess that avarice got the better of me. Moi working for Goldman Sachs, the arch-capitalist pigs? Yes, I sold my democratic-socialist ideals. Yes, I peddled my education for money. Crime of conscience. Subversion of ideals. Yet, yet, fantastic. Greed, dear reader, has a billion tentacles.

10:10 AM, I am outside the interview room dressed better than in the past umpteen moons. The interviewer is a bearded gent; Turkish, Harvard Ph.D., intelligent, arrogant. We start talking. Amazingly, I am leading the conversation, asking *him* questions about his work. It goes on. Then, imperceptibly, he takes control, starts asking me questions. My little gray cells, already bloated from exposure to the Caltech hose, panic and refuse to reveal their secrets. The statistics I learnt three years ago evaporates further and further away from my memory, the C-programming techniques—learnt after long battles in front of VDT's—desert me in mid-battle like Iraqi Republican Guards. My mouth is as parched as desert. High-finance vulture that he was, he knew. I realize I am being inane—to the degree I had hitherto not thought possible before. My stomach is sinking with the sinking feeling that I am comically unprepared for *real* life.

He handed me his visiting card. I am in a daze. I want to irrigate my throat, I want to revive my brain. We shake hands, say banal goodbyes. I walk out, and by the time I emerge from the entrails of SAC, I am laughing with relief, and with ecstasy. My first job interview. Over. Returning to my lodgings immediately, I tear off the tie.....

Bridge Without Sam

Jeff Goldsmith

A Greek Gift

Sometimes nothing you can do will allow you to make a trick, but often it is possible to enlist the enemy. I once knew an opponent nicknamed "Endplay Joe," because he frequently found the only line for declarer to make an extra trick. Not putting him on lead when there was a chance to go wrong was tantamount to giving up an extra chance.

Playing in a local duplicate against unimaginative opposition, I held the South and jumped to 3NT opposite partner's Flannery opening bid.

- ♠ AK103
- ♥ A9863
- ♦ 63
- ♣ 43



- ♠ 6
- ♥ 104
- ♦ AQJ082
- ♣ AK52

North South
20' 3NT
(All Pass)

*Flannery: 4♠, 5♥, 11-15 HCP

LHO led the ♠4. Since dummy was known to have four spades, it is very likely that she had both the Queen and Jack, so I might well insert the Ten, but if it were to lose and a heart come back, the two hands would be severed, making the play not much fun, so I won the King at trick one. Obviously, I need to go after diamonds, and since I hope the finesse loses (I'll have ten top tricks then, but a problem if it wins. Do I repeat it?) I play a low diamond to the Queen. Happily, LHO wins the King and fires back the ♠Q. Oh, well, I should have finessed at trick one; I'd be playing for six now. I have ten top tricks, though, and they have one. The only realistic chance I see for an eleventh is a squeeze. If someone has sole control of either rounded suit, I have some squeeze if I can read the discards. The problem is to rectify the count. I need to duck a trick, but which? If I duck a club or a heart, they can cash a spade, holding me to ten tricks. What about ducking this trick? If I duck it, dummy will remain with a major tenace and LHO will not continue the suit. If she continues with a club, I might be OK, but she will probably switch to a heart, which will mess things up. What can I do about this? Aha! I have the answer. I play the spade Ten under LHO's Queen and let her hold the trick, discarding a club from hand. She looks at this suspiciously, as well she might, but shrugs and continues spades. After all, it sets up her suit.

On the run of the diamonds, LHO shows up with four (!) and RHO high-lows in hearts. On the fifth diamond, RHO throws a spade and on the sixth the ♥Q. When I cash the ♥A, she squirms a minute and pitches a club. Since RHO has the ♥K left and LHO has the ♠J, I can claim with three good clubs in my hand. Making five for a very good matchpoint score. It would have been much easier if I had just hooked the spade Ten at trick one. Heck, I could have made six.

Even though the defender could not expect to see the squeeze so early in the hand (my bidding was not very revealing,) she should get this one right via a simple logical inference. Obviously, she would not continue spades if I did not play the Ten. Therefore, I must want her to continue spades for some reason. If it is good for me, it is bad for her, so she must do something else. A little thought would have led to the heart shift.

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

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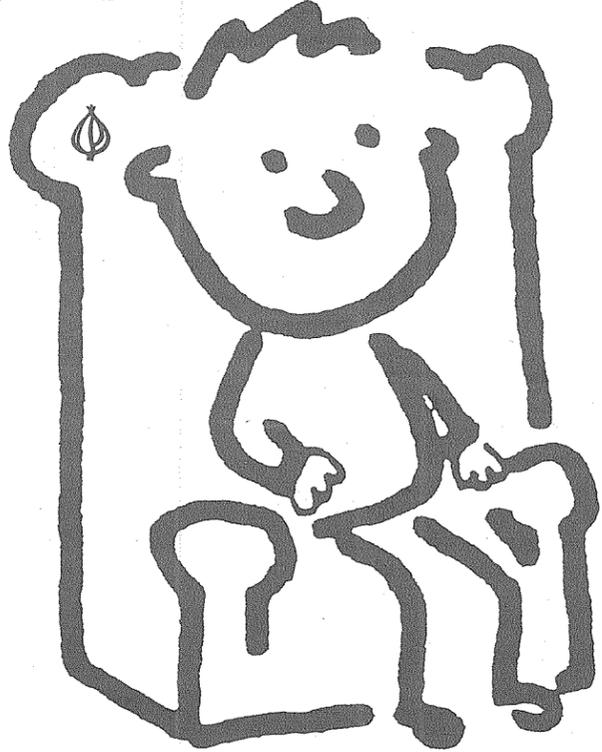
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Jim's Journal



by Jim

<p>Today Ruth came over and we ate some Cracker Jacks that she brought.</p>	<p>Ruth offered one to Mr. Peterson and she started to lick it.</p>	<p>Ruth laughed.</p>	<p>I told Ruth that Mr. Peterson likes to eat funny things sometimes.</p>
<p>I made a big sandwich today and sat and read the newspaper while I ate.</p>	<p>Mr. Peterson jumped up on the table and walked across the newspaper, so I set her back on the floor.</p>	<p>She ran into the other room and I kept reading and eating.</p>	<p>Then she started meowing at the top of her voice and wouldn't stop.</p>
<p>Today I saw a guy in an old army coat walk into an ice cream store.</p>	<p>He was unshaven and looked like he was shaking out of nervousness or something.</p>	<p>I thought for a moment about the possibility that he would go in the store and shoot everybody.</p>	<p>But I figured the chance of that happening was pretty slim.</p>
<p>I was reorganizing some books on my bookshelf today.</p>	<p>I made stacks on the floor and tried to put books on the shelf in some kind of order.</p>	<p>Mr. Peterson was sitting on the tallest stack, watching me.</p>	<p>It took me a long time because I kept stopping to read things.</p>

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comics

WASHINGTON

Mark Alan Stamaty

MANY FRIENDS OF THE PRESIDENT-ELECT HOPED FOR JOBS in the NEW ADMINISTRATION.

YOUR FOB NUMBER?

MY WHAT?

CLINTON-GORE TRANSITION HQ

YOU SAY YOU'RE A FRIEND OF BILL. WE NEED YOUR NUMBER.

HE NEVER GAVE ME A NUMBER...

WE USED TO SIT UP TILL 3:00 A.M. in COLLEGE TALKING ABOUT LIFE, THE FUTURE...

NO NUMBER FOR THIS GUY.

CHECK THE FILE.

YOUR NAME?

TOM HURRY.

TAP TAP TAP TAP TAP TAP TAP TAP

HERE YOU ARE: FOB8753.

BUT I'M ONE OF HIS CLOSEST FRIENDS!

THAT'S WHY YOU HAVE SUCH A LOW NUMBER.

WHAT POSITION ARE YOU APPLYING FOR?

PERCEIVER GENERAL.

OUR NEXT PRESIDENT WANTS TO BE CLOSE FRIENDS WITH EVERY AMERICAN.

SAID THE TRANSITION TEAM interviewer.

YOU ARE APPLYING TO BE THE GUARDIAN OF THAT PERCEPTION.

THE PERCEIVER GENERAL, in the COMING ERA, WILL BE RESPONSIBLE FOR CHARTING AND GUIDING THE MOST AMBITIOUS AGENDA OF MASS INTIMACY EVER ATTEMPTED IN THE HISTORY OF THE PRESIDENCY!

FIRST WE FIRM UP THE DEMOCRATS, THEN WE SOFTEN THE PEROT PEOPLE AND MELT THE HEARTS OF REPUBLICANS. WE'LL HAVE BOB DOLE SLIPPING AND SLIDING in a BI PARTISAN LOVEFEST! LOOK WHAT WE'VE DONE ALREADY: 3.9% GROWTH BEFORE WE'VE EVEN TAKEN OFFICE!

HISTORICAL FRONTIERS OF FRIENDSHIP ACCUMULATION LAY AHEAD AND FRIEND OF BILL NUMBER 8753 HOPED TO BE A PART OF IT.

comics

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Although Pete decided in 1990 to stop and hang up his apron, don't despair! The tradition lives on!

Pete's youngest son, James will be re-opening the family business in January 1993.

Training with his father since the ripe old age of 8, James is committed to continuing the the Kousakis tradition of producing the **GREATEST HAMBURGER** in Southern California and he's choosing Pasadena as his headquarters.

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Come, experience what thousands and thousands in Los Angeles have done for 40 years. *Pete's GRANDBURGER* is back in the City of The Roses.

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WHEN OUR PERFORMANCE IS BAD?

THAT'S ONE THEORY, SURE.

I'VE HAD ENOUGH OF THOSE WIMPY MANAGEMENT TECHNIQUES LIKE "EMPOWERMENT" AND "QUALITY."

WRITE A BETTER MEMO OR I'LL SEND A STRONG SHOCK TO YOUR HEAD.

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Jim's Journal by Jim

I was watching TV today.

There was nothing very interesting on, so I flipped around the channels.

At one point I saw the same coffee commercial on two different channels at once.

I eventually settled into an episode of Gilligan's Island that was pretty good.

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SPORTS

continued from page 1

Election '93

this election, the Ex-Com will appoint someone to hold the office, and there will not be another election unless a petition signed by 20% of all eligible voters is presented to the Board of Directors. If anyone receives a majority of all non-"No" votes in this initial election, they win the position and there is no final election for that office. In the case that no one receives a majority of votes in the initial election and "No" doesn't win, the top two candidates (and the third if he/she received at least 80% as many votes as the second place candidate) will be in a runoff election to be held Friday, January 29. The procedure in this final election is quite different from the procedure of the initial election. In the final election, a vote can only be cast for one of the names appearing on the ballot. No write-ins or "No" votes are allowed. To vote circle the most preferred candidate and/or cross out the least preferred candidate. If a candidate gets a majority of preferred votes in the final election, he/she wins. If no one gets a majority of preferred votes, the winner is the person with the highest number of most preferred votes minus number of least preferred votes. If there is still a tie, the winner is the person who had a plurality in the initial election.

This election procedure is then repeated for the other remaining offices. Keep watching the *California Tech* for written statements by the candidates, other election announcements, and results.

I would like to encourage anyone interested in any of these offices to talk to the people who hold them now. You'll find a list of all officers in your *little t*. Finally, I would like to encourage everyone to vote. This is not a national election, where your vote is one among 100 million. It's not even a large school. When there are only 800 people, every vote makes a difference. If you have any questions contact me, Ewald Hueffmeier, Election Chairman.

Caltech: Division III's Best Defense

Bryce H. Elliott

In case you haven't noticed, and judging by the attendance, you haven't, the Beaver basketball team has the best scoring defense in the nation, allowing just 43.8 points per game as of Christmas Break. They are over seven points ahead of their closest competitor, Ohio Northern (51.1). Caltech also leads Division III in rebounding margin, pulling down 19 more boards a game than their opponents. With numbers like those, it's not surprising that the team also outscores their opponents by 19, good enough to tie for 11th.

Along with team honors, this 7-1 Beaver squad has some individual kudos to hand out. George Papa is 14th in Division III in scoring, and 12th in rebounding. Papa also leads all SCIAC players in scoring, rebounding, and blocked shots. *Papa*

said knock you out!

Caltech upped their record to 7-1 by placing 2nd in the Hi-Tech Alumni Tournament, losing a heartbreaker to American Indian Bible College in the final game after dispatching LIFE Bible College and Holy Names College. Papa was named to the All-Tournament Team. At the end of finals week, the Beavers were scheduled to play California Christian College, but CCC was evidently frightened at the prospect of facing the nation's stingiest defense, and opted not to show. The dedicated Beaver squad then returned from break a week early to get ready for victories over La Sierra College and Fontbonne College, and watch the talented freshman "Sneaky" Steve Tsai make his way into the starting lineup. The Fontbonne team came all the way from Missouri to try their luck against the country's best, and al-

most came away with a victory. Papa sank two free throws with only 3 seconds left on the clock to break a 52-52 tie. If the Beavers have many more games this close, they will likely give coaches Gene Victor and Bud "Third" Reich heart trouble.

This weekend, the sterling

Caltech team will take a two-game road trip north to take on Cal Maritime Academy and Pacific Union, Friday night and Saturday night, respectively, before opening up conference play at Whittier on Wednesday the 13th at 7:30. Hope to see you there to watch NCAA Division III's BEST defense.

This Week in Caltech Sports

Basketball		
1/8	at Cal Maritime	7:30 pm
1/9	at Pacific Union	7:30 pm
1/13	at Whittier	7:30 pm
JV Basketball		
1/12	at Whittier	5:30 pm
Swimming		
1/9	SCIAC Invitational at Caltech	9:00 am

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WHAT GOES ON

NOTICES

Women's Glee Club Tryouts - The Women's Glee Club will hold tryouts for their January-May concert season this coming Monday, January 11, at 5 pm in SAC 1. Repertoire for the spring season will include music by one of America's foremost composers, Daniel Pinkham and the Mozart Mass in C to be performed with the Occidental College Glee Clubs and the Caltech/Oxy Symphony. Dr. Pinkham will be on campus in March to conduct the concert of his music with the Women's Glee Club. If interested in becoming a member of the Women's Glee Club contact Monica Hubbard at x6260.

Work for the MOSH - The Master of Student Houses, David Wales, needs student workers to assist him with dinners at the Masters house during weekdays. Call ext. 6194 for more details. FROSH - this is your big chance.

Guitar Classes - Guitar Classes for the winter quarter will meet on Tuesdays starting on January 12 in Room 1 of the SAC as follows: Beginner 4:30-5:30 PM, Intermediate 3:00-4:00 PM, Advanced 5:30-6:30 PM. Classical and Flamenco repertoires are explored but techniques transfer to other styles of guitar. The Beginning Class includes a jazz/folk chord system. Classes are free to Caltech students and other members of the Caltech Community, space permitting. Undergraduates can earn an optional 3 units. Private instruction on any level can also be arranged. The instructor, Classical Guitarist Darryl Denning has an international background in performance, teaching, and recording, and can be reached at (213)465-0881.

Caltech Bicycle Club Meeting - Wednesday, January 13, 8 p.m. to 9 p.m. in Winnett Lounge. This is the organizational meeting for the CalTech bicycle club. The club organizes all types of rides, both road and off-road rides, for all skill levels, from novice to advanced including collegiate racing. The first collegiate race is February 6 in San Diego. All cyclists are welcome. For more information, contact Michael Kantner at x4882 or E-mail to kantner@hot.caltech.edu

Learn Ancient Greek - A class to teach elementary ancient Greek, is being organized by Prof. Pigman for 1993-'94. If you are interested in taking the course, contact Prof. Pigman either by email: gdp@dido or by campus mail 101-40.

We Need You ...to help with the Acquaintance Rape Committee Workshop sponsored by the Counseling Center. If you are interested in participating in this workshop, attend the organizational meeting on January 19, 1992 at 6:00 pm in the Y lounge. (dinner is provided) If you have questions you can call: Dinah Lee Schaller at x2961.

Hum 6b, Sec. 3 - History Thought and Culture - Within recent years, the body and it's representation have become a focus of investigation by scholars in many different fields. These scholars, many of them feminists, have explored changing conception of the body, especially with respect to gender and sexuality and cultural practices surrounding the body. This class will consider selected issues in the history of modern Western bodies, including psychoanalysis and the reconstruction of gender, critiques of Freud by Foucault and feminists, the radical sexual politics of Emma Goldman and the cultural and medical crisis of AIDS. For further information contact Prof. Wexler's secretary, Sheryl Cobbs, x4220, 331 Baxter. The class meets from 2-4 on Tuesday and from 3-4 on Thursday in 137 Baxter.

EVENTS/SERVICES

Friday Morning Donuts! - That's right ASCIT and the Caltech Y are bringing back the Caltech tradition of Friday Morning Donuts. Donuts will be served today and at the Caltech Y today and every Friday at 8:00 am. Come on up, eat breakfast, read the paper, and meet interesting people. Then, you can go back to bed, but don't miss the donuts.

Weight Watchers - Want to lose weight, come to Winnet clubroom #1 at noon on Mondays from Jan. 11 to March 15. To sign up call ext 8360.

Super Bowl Week Volunteers Wanted - Pasadena Celebrates is the city's official festival for the week (January 34-31) prior to the Super Bowl, and will culminate in a cultural celebration in Centennial Square on Saturday, January 30th from 10 am to 6 pm. It is coordinated by the Pasadena Host Committee, a non-profit organization. Volunteers are needed for a variety of tasks ranging from office assistance and message running to banner hanging and stage setup. If interested, contact Catherine Haskett, (818)568-1220.

Kabbalat Shabbat - The Caltech and Oxy Hillels are sponsoring a Kabbalat Shabbat Program on the night of Friday, Jan. 29 in the Y Lounge beginning at 4:30 pm.

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.

Gay, Lesbian, Bisexual Support Group - Meets the first and third Tuesdays at 7:30 pm in the Health Center Lounge. This confidential meeting is open to all Caltech community members looking for a supportive context in which to address questions and concerns about sexual orientation - including coming out, being out, self-discovery, coping with families.... We begin with a focus topic but move to whatever is feeling most relevant to the group that night. Refreshments are served. For information, please call 356-8331.

The Caltech Student Investment Fund meets every Tuesday at 5 PM in Winnett Clubroom #2. Come by and learn how to obtain limitless wealth and power. No previous investment experience or knowledge required.

Al-anon members needed to facilitate start up group on Caltech campus. Please contact Caltech Staff & Faculty Consultation Center at x8360.

Adult Children of Alcoholics - A 12-step group meets on campus every Tuesday, from 12 noon to 1 pm, in Y club room 2. The group is open to any student, staff or member of the faculty who grew up with family alcoholism and other problems. For more information call Dinah Lee Schaller at 356-2961.

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 for tutoring 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.

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.

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

S.P.E.C.T.R.E. New Year - S.P.E.C.T.R.E., the Caltech Science-Fiction Club will start 1993 with our New Year Full-Moon Movie-Fest presentation of the SF/Horror trilogy Alien/Aliens/Alien3. The films burst forth at 7pm Saturday January 9th in the Catalina III Rec Room. Next, our first regular meeting of the year will be 7:30pm Wednesday January 13th in Room 35 of the SAC. We will discuss a permanent move of our meeting day due to Quantum Leap and Deep Space 9 on Tuesday, and we will renew our membership with a showing of "Logan's Run."

Lewitzky Dance Company - Dancer/Choreographer Bella Lewitzky introduces young audiences to modern dance through a lecture-demonstration of techniques in choreography, as performed by members of her company. \$8.50 for adults, \$4.50 for children. For information call x4652.

The Falla Guitar Trio - Kenton Youngstrom, Dusan Bogdanovic and Terry Graves perform a repertoire of classical, jazz and blues pieces next Friday in Beckman auditorium. For ticket information contact the Caltech Ticket Office at x4652.

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 nights 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 - Sundays in Winnett lounge, Beginning instruction starts at 7:30 pm, intermediate at 8:00 and open dancing goes 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

Dr. Simon Levay - Dr. Levay of the Salk Institute will visit Caltech next Thursday to deliver a presentation entitled "Queer Science: Uses and Abuses of Research into Homosexuality". Dr. Levay's research, which has garnered worldwide attention, has uncovered evidence suggesting an underlying systematic physical difference in the brain structure of homosexual men. The presentation will take place in Baxter lecture hall at 4 pm.

"Science at the Supercollider" - At Beckman Auditorium, 8 pm on Wednesday, January 6, Dr. Barry Barish, professor of physics at Caltech and the spokesman for the GEM Detector for the SSC, will give this E.C. Watson Caltech Lecture. Free Admission. For more information, call x4652.

Balancing Work and Family... Ways to meet job and family obligations effectively - A Presentation by Mary Mader of MSW Clinical/Industrial Social Work. The seminar will cover such topics as ways to manage job stress, handling multiple roles and tools in balancing your life. Come and join this the first Lunchtime Learning Presentation of the '93 in Winnett lounge, on Jan. 13, from noon to one. Bring your Lunch.

SCHOLARSHIPS & COMPETITIONS

"Progressive Social Change in the 1990's" - *Monthly Review*, an independent socialist magazine, announces an essay contest for people 25 and under. Entries covering such topics as, How can we change progressive change in US society today? Are emerging movements creating new ideas and posing potential solutions? In what ways can new social institutions be constructed?, should be 2000 words or less, written in English and typed double-spaced. First prize is \$500, second \$300 and there is a \$100 third prize. All contestants will receive a free one-year subscription to *Monthly Review*. Send submissions to *Monthly Review*, 122 W 27th Street, New York, NY 10001. For more information call (212) 691-2555. The deadline for submissions is March 1.

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 College Women's Club of Pasadena Scholarship competition is open to undergraduate students who are planning to enroll as full-time students for the 1993-94 academic year. Applicants must be U.S. citizens with a 3.00 GPA. The awards range from \$2,000 to \$3,000. Completed applications, including an academic transcript, current course list, three recommendations and a personal one-page essay are due in the Financial Aid Office by Feb. 5.

Green Hills Software annually awards several merit scholarships in the amounts of \$2500 and \$5000 to Caltech undergraduates who have demonstrated ability and special aptitude in computer science. These awards are for the Junior and Senior school years. In addition, Green Hills will award one or two Undergraduate Fellowships consisting of a Senior year scholarship plus a \$6000 summer internship for the preceding summer. All awards are merit awards, given without regard to financial need. Any student currently holding a Junior year award must reapply in order to be considered for the Senior award. The deadline for submitting the Green Hills Scholarship application to the Financial Aid Office is Friday, Feb. 5. Applications are available at the Financial Aid Office.

The annual Mensa Scholarship Essay Contest is here again. The essay should present clearly and concisely the applicant's academic, vocational and career goals. The only requirement is that the student be enrolled in at an accredited college/university for the 1993-1994 academic year. All entries must be postmarked on or before January 31, 1992.

The Korean American Scholarship Foundation is offering \$1,000 scholarships to full time students of Korean American heritage enrolled in at least the second year in a four year college, graduate school, or professional school. Deadline for the application, including supporting documents, is January 31, 1993.

The Society for the Advancement of Material & Process Engineering (SAMPE) is announcing its 1993 Undergraduate Awards Program for Engineering. Application packages must be submitted postmarked no later than February 1, 1993.

The Society of Women Engineers is seeking qualified applicants for thirty-one scholarships varying in amounts from \$1,000 to \$4,00. Applications, including supporting materials, must be postmarked no later than February 1, 1993.

The American Meteorological Society is offering 11 Undergraduate Scholarships and 11 Graduate Fellowships. For more information please check the bulletin board at the Financial Aid Office or the Bookstore. The postmark deadline with all attachments is February 1.

The American Society of Naval Engineers is sponsoring a \$2,000 scholarship for the 1993-94 academic year. The candidate must be a U.S. citizen, demonstrate a genuine interest in a career in naval engineering, and be applying for support for the last year of a full-time program or for one year of graduate study. Financial need may also be considered. Deadline for receipt of scholarship materials by the ASNE offices is February 15, 1993.

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.

The SME Manufacturing Engineering Education Foundation is announcing the availability of 4 separate undergraduate scholarships for direct application by the students. These scholarships range from \$500 to \$2,500. For information on scholarship criteria for each scholarship visit the Financial Aid Office. The application deadline is March 1.

The American Scandinavian Foundation of Los Angeles will distribute five \$1,000 scholarships in 1993 to upper division and graduate students with a demonstrated interest in Scandinavia. Applicants must have strong academic qualifications and must show financial need. Two letters of recommendation, a transcript and the completed application are due by March 15, 1993.

The Jewish Community Scholarship Fund is providing scholarships designed to assist Jewish students who are legal residents of Southern California, pursuing post high school training or education on a full-time basis, and able to document significant financial need. Forms may be obtained from the Jewish Vocational Service, Room 303, 6505 Wilshire Blvd., Los Angeles, CA 90048, or call (213) 655-8910. Deadline for submission of completed applications is April 1.

American Electroplaters and Surface Finishers Society (AESF) is offering scholarships for the 1993-94 academic year to students of at least junior standing. Awards are not necessarily based on financial need. Field of study for this scholarship is in chemistry and/or the engineering sciences. The application and all requested information and documentation must be postmarked by April 15, 1993.

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