

Junior Karen Kustedjo, a chemistry major, was one of 21 students giving special poster presentations in the Beckman Institute courtyard last Saturday for the annual SURF Seminar Day. Over 170 students gave talks on their summer research projects.

Vargas discusses minority student issues at Tech

by Zackary Dov Berger

Frank Vargas, Assistant Dean for Minority Student Recruitment and Retention, has returned after a month of heavy travelling for the recruitment of under-represented minority students. *The Tech* spoke to him this week about minority student retention and his interests in both engineering and student affairs.

The job of the Assistant Dean, says Vargas, is to "provide minority students with the resources they need to succeed at Caltech." To that end, the Assistant Dean's offices (in the upper floor of the yellow CAPSI house on South Hill) are open for the use of student groups and nighttime tutoring. Underrepresented minority students, who may not have benefited from a course of study at the level of others', may also take advantage of the Dean's Office tutoring program.

These programs might help to retain such students. More important, however, in the opinion of Vargas, is "bringing students to campus that have a good chance of

success." What does Caltech Admissions demand of applicants from underrepresented minorities? The same that it demands from all others: "I don't like quotas," says the Assistant Dean. Students must go after "the most challenging courses they can find"—and "no slack on test scores," either. "Bringing in a student who doesn't fit in Caltech just to meet a quota is damaging as much as helpful."

It is easy to admit qualified members of underrepresented minorities who are already swimming in the applicant pool. Nevertheless, according to Vargas, Caltech, as a technical institution, has a responsibility: increasing the size of the applicant pool. For this reason, Vargas and Caltech colleagues have spoken to schools in the Pasadena and Los Angeles unified school districts in another recruitment effort. Indeed, says Vargas, "across the board, the number of high school students applying for college is increasing"—the pool is growing.

Aside from opening the his-
see VARGAS, page 6

New chief of security arrives

by Michael Benedetti

Gregg Henderson, Caltech's new Chief of Security, arrived at Tech this week, replacing Hal Ginder, who retired abruptly in August.

Henderson, a native of Southern California, was previously a division manager of a large security services company. He is also a veteran of the Pasadena Police Department, where he served for 18 years.

Henderson has arrived at a time when Caltech seems less safe than ever. A PCC student was raped at the corner of Hill and Colorado last month, and two Techers were mugged on Holliston last Friday. Can Security do anything to prevent these kinds of things from happening?

Not much, according to Henderson. "It's a tough situation, because once something happens outside the boundaries of campus, you can't overextend yourself,"

Henderson says. Because of liability, Caltech Security is unable to maintain a presence outside the boundaries of campus.

This does not mean that Security has no concern for off-campus safety, however. Henderson would like to organize a group of volunteers to escort students off-campus at night. He encourages anyone with suggestions or ideas to talk to him, as such a service cannot work without student involvement.

Nunnally new development V.P.

by Toby Bartels

Jerry Nunnally, Caltech's new Vice President and Director of Development, finally arrived on campus this week. For the past eight and a half years, Nunnally worked for the Russian Research Center at Harvard College. While he was being considered for the position at Caltech, he decided to visit, and he immediately loved California. He was glad to be able to accept the job when it was offered to him.

It is Nunnally's job to raise money for Caltech through private donations. If the trustees want to find more funds, or the chemistry department needs a major piece of new equipment, or Caltech wants to build a superconducting supercollider, he is the man to talk to.

Nunnally first became interested in raising money for education while working in the banking industry, where he had the opportunity to talk with deans of business and law schools about the finances of higher education. Nunnally realized that he had the experience

to work effectively with private donors, so he quit his banking job to start a new career.

In the past seventeen years, Nunnally has found that his career gives him a great deal of personal satisfaction. He is glad that he can spend his time helping others and furthering the accumulation and transmission of scientific knowledge. His job helps Nunnally remember that, while no one person has the power to change the world, each one has the power to help a little until, through the efforts of many people, the world does get changed.

Nominations are open for one Representative at Large position on the Board of Control. The new Representative will be chosen on the basis of interviews conducted by Board members. The term as Representative at Large is for two terms, starting immediately upon appointment. Signups are available on the MOSH's office until Friday, October 29, at 5 P.M.

If you have any questions, please call BOC Chair Mike Brundage at x6200.

The Tech Survey . . .

The California Tech would like to remind its readers that the *Tech Survey* is still going on. You can find details in last week's issue (October 15). We will also post a notice in the appropriate caltech.announce newsgroups, and hope to put ballot boxes in the undergraduate Houses. We will continue collecting entries for another few weeks, and the rather unscientific results will be published before the end of the term.

Vote!

Molina on race politics

by Damian Martinez

Yesterday, Gloria Molina spoke at the Beckman Institute Auditorium as part of the Race Politics and Region (RPR) seminar. The title of yesterday's seminar was "Latinos and Politics in Southern California: Past, Present, and Future." Although she admitted to not having prepared a speech, she delivered an excellent impromptu talk.

In 1991, Molina became the first woman to ever be elected to the Los Angeles County Board of Supervisors, the most powerful local office nationally, supervising a budget of \$11 billion for a population of 10 million. She is also the only Latino to be elected to this post for 117 years.

Mrs. Molina discussed the history of the name Latino and the difficulty in using one label for a very diverse community. Mexicans who fought in the Vietnam War as

American citizens felt that they were just as American as anyone else, so they hyphenated their ethnicity to become Mexican-Americans. However, during the student movements of the same era, some people thought that a hyphenated name was insulting and wanted to be known as Chicanos. They felt this name would be more reflective of their desire to bring about change. The older generations criticized the use of this name because it implied negative images from the zoot suit era. The population was also changing, there were much larger sections of the community who were not Mexicans, but Central or South Americans. Even the government became involved by labelling them all Hispanics. The community rejected this label also, choosing instead Latino.

She mentioned the breaking down of institutional barriers in

see MOLINA, page 6

The California Tech

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Minutes of the ASCIT BOD meeting, October 19th

by Karen Shih

Present: BOD, Alan Blaine, Jennifer Trittschuh, Dave Derkits, Gavin Claypool, Son Nguyen, Sharon Kedar, Tatsuya Murase.

New Business

• Sharon and Son are here with a list of undergraduates who have expressed interest in a Ballroom Dancing Class. The cost of the instructor would be \$60 per class, and they would like some financial assistance. The class will be offered once a week, open to any students, and will be very laid back and relaxing. Participants do not have to show up with a partner; there is no obligation to come to every class. The BOD recognizes that this is a worthwhile diversion for Caltech students. Motion to support the class with \$10 per class per week passes (8-0-0).

• Tatsuya is here with a new flier publicizing KKGO's commitment to playing Wagner's "The Ride of the Valkyries" for us Caltech sleepyheads at 7:00 A.M. on December 8. In addition, there will be "Breakfast on the Olive Walk," complete with the new and improved ASCIT P.A. System, to help everyone wake up to a fresh day of finals.

• The BOD Agenda: To further the quest for a more formal and serious ASCIT, the BOD has devised a new framework for the weekly meetings. The first part of the meeting will be devoted to new business from the general ASCIT membership; those who manage to get on the official agenda will proceed first, followed by those who spontaneously show up to the meeting. (see last week's Minutes for directions). New business will be followed by a Treasurer's report, after which last week's minute's will be approved. From then on, all other members of the BOD who have events in the works

will present short progress reports, followed by brief reports from the three pillars of ASCIT: IHC, BOC and ASCIT President himself. The official agenda for each week will be posted at Winnett Center by Monday evening immediately before the meeting.

• Minutes: Last week's minutes contained some misquotations that need to be retracted:

• Several remarks were erroneously credited to Michael Brundage. In particular, only the sentence in italics [following paragraph] should be attributed to Mike; the rest of the paragraph was merely a myriad of sentiments expressed by other members of the BOD. I apologize for the misquotations.

Some personal thoughts: Student government at Caltech is uniquely refreshing; however, the way that ASCIT conducts meetings and interacts with the administration needs some re-vamping so as to lend more weight and leverage to what we are trying to accomplish.

• At the Faculty Board meeting, the professors were encouraged to suspend class for Dr. Martin Luther King, Jr. Day or to schedule flexible, optional classes so that students who wish to participate in many of the campus-wide activities may do so easily. The Institute is not officially suspending all classes, as we erroneously reported last week. We apologize also for the misunderstanding.

• The Minutes are finally approved, with these corrections

• From now on, the Minutes will be informally approved before publication via e-mail.

Executive Committee

• Karen Shih will remain ASCIT Secretary through her term of leave.

• The BOC shall interview and

appoint a Representative-at-Large to the unexpected vacancy for the remaining term of the office.

• Student Faculty Conference: All sub-committees should be at full-speed in putting together feasible proposals and reliable reports for the conference in February. Student Affairs has agreed to support the sub-committee meetings with snacks.

• Halloween Party: Michelle and Mike from KROQ will be here for 5 hours, from 9 to 2 A.M. Ruddock is in charge of food; Fleming is publicizing the event; Page is helping with the beverages; Lloyd will take care of decorations (pumpkins); Ricketts is managing the door. Five Houses have agreed to assist at the beverage counter; and all Houses have agreed to clean up.

• ASCIT Copier: people are taking the paper from the copier. Please stop.

• IHC Chair: we have a new Director of Housing—Tom Mannion. Welcome to Caltech.

Athletics Director

• Some changes in Interhouse Schedule may be surfacing. All changes will go through the IHC.

• The new Interhouse Trophy and a repaired Discobolus Trophy are on display in Fleming House.

Vice-President

• Sign ups for the new Rep-at Large position is going up.

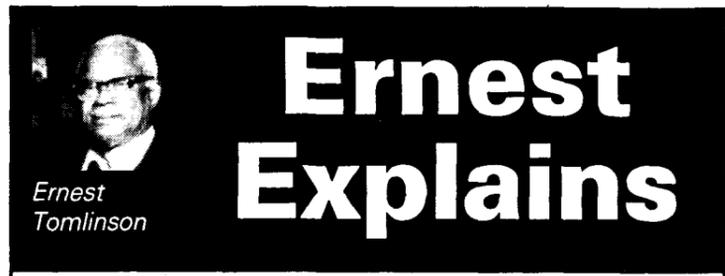
• House BOC Talks are getting underway.

• Some Bylaw Changes are coming our way.

President

• Moeen is meeting with Dr. Lorden about our plans to formalize operations of the BOD.

• In the works is a possible new meeting room for the BOD with a big table around which discussion could be more serious and official.



Ernest Explains

Dear Ernest,

I'm having some trouble with my computer. It seems that it is generating radio interference, as my T.V. becomes staticky whenever I turn it on. How can I fix this? My husband is complaining, and I fear he will soon throw my computer out the window.

—Radio Raheem

Dear Professor Stock,

Fortunately, there's an easy fix for your problem. As many readers are no doubt aware, the vacuum has an impedance for E.M waves of approximately 377 ohms per square. This means that any plane of material with an identical impedance will absorb all radiation impinging upon it without reflection. Such a material is called spacecloth. You can make a good approximation to spacecloth quite easily out of an old sheet and some soot—simply coat the sheet with the carbon until your ohmmeter reads 377 ohms across any square. Then tape pieces of spacecloth around your computer, and *voila*—all the RF interference will be absorbed. Just be sure not to be too efficient in covering the computer, or it will absorb *all* radiation, and become a black hole.

Dear Ernest,

Is there really such thing as one's "Inner Child"? I hear this term a lot in popular psychology books.

—Wondering in Lloyd

Dear Albert,

Although there have been documented cases of a small child or dwarf living in a person's abdominal cavity, there is not, in general, any such thing as an "Inner Child."

Please send letters to the editor to The California Tech, Caltech 40-58 SAC, Pasadena, CA 91125 or by e-mail to editors@tech.caltech.edu. The Tech reserves the right to edit all letters for brevity or otherwise, and to refuse to print any letter for any reason.

The California Tech
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\$1.50 for ASCIT members
\$2.00 for all others

NEXT WEEK: IN THE LINE OF FIRE

Write for the Tech

The weekly *California Tech* staff meeting will be held today at 12:15 P.M. in the Coffeehouse. Free pizza and soda will be served, and everyone is invited. We are currently looking for someone to edit the Events and Notices page and for an on-campus circulation manager. If you are interested in either position, please come to the meeting or call x6153 and leave a message.

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Angola

The U.N. flew aid in to Cuito for the first time since it fell under siege by Angolan rebels nine months ago. A World Food Program official said that the condition of the city was worse than anyone had imagined.

Argentina

President Menem had emergency surgery for blockage in a neck artery. The surgery was successful.

Bosnia-Herzegovina

Bosnian Muslims and Croats began swapping hundreds of prisoners under a recent agreement between Bosnian Foreign Minister Haris Silajdzic and Croatian Foreign Minister Mate Granic. The agreement says that 5,500 prisoners will be released over the next week.

Denmark

The Industry Ministry introduced a bill that would allow stores to stay open longer. Currently, stores must close by 5:30 P.M. on weekdays and 2 P.M. on Saturdays. Laws like this are common in Europe. The bill would allow stores to stay open until 8 P.M.

Egypt

Israeli and PLO negotiators met in Taba, and agreed on a timetable for the transition to Palestinian self-rule in the occupied territories. A committee was set up to deal with the issue of the 12,000 Palestinians who have been imprisoned or deported by Israel over the last 26 years.

Estonia

The first free post-Soviet elections were held for various offices in local governments. Only Estonian citizens were allowed to run for office, leading the large Russian-speaking minority to complain that the law was discriminatory.

Georgia

Rebels loyal to former Georgian President Zviad Gamsakhurdia took control of Samtredia, a key transport point between the capital Tblisi and the Black Sea, in a quick attack. The rebels also took the smaller town of Khoni.

President Shevardnadze asked Russia for a peacekeeping force to

stop the fighting in his country. Earlier this month he joined the Russian-dominated Commonwealth of Independent States. Both moves indicate that he has given up nationalistic goals of taking Georgia out of Russian dominance.

Germany

A German soldier participating the U.N. peacekeeping mission in Cambodia was killed by two gunmen. The death is likely to reignite German debates over whether participation in U.N. military actions is unconstitutional.

Greece

Newly elected socialist Prime Minister Andreas Papandreu announced that he was canceling plans by the former administration to privatize the telephone and public transportation companies.

Papandreu named Dmitri, his second wife, to be chief of staff in his new government.

Haiti

The U.N. Security Council voted to reimpose sanctions on Haiti. Shortly after the vote, gunmen killed Justice Minister Guy Malary, who was supposed to be responsible for directing the dismantling of Haiti's corrupt police force. Continued resistance from Haiti's military leaders led the Security Council to vote unanimously for a naval cordon around Haiti, and President Clinton sent six warships to aid the embargo. Lt. Gen. Raoul Cedras refused to resign Friday, as he had agreed to under an earlier agreement. Following the recent violence in Haiti, U.N. special envoy Dante Caputo said that Aristide's return, planned for October 30th, might be delayed.

India

Rebels in the Hazratbal Mosque refused to leave, and threatened to blow up the mosque if government

soldiers entered. The mosque has what is believed to be a hair of the prophet Mohammed.

Kazakhstan

Kazakhstan's Parliament ratified an economic treaty with Russia. The treat also involves Armenia, Belarus, Tajikistan and Uzbekistan. The treaty coordinates economic policies and gives Russia's central bank monetary control over the five other former Soviet republics. Old Russian rubles are no longer valid in Russia. The treaty would allow them to be exchanged for new usable rubles.

the party is expected to do well if it can stay unified. Yeltsin stayed away from the meeting. His spokesman explained that Yeltsin stayed away because he wanted to be leader of all Russians, and not one particular bloc.

Russia admitted to dumping 900 tons of liquid nuclear waste in the Sea of Japan over the weekend. The action led to protests from Japan and demands to a permanent end to the nuclear dumping. But Russia said that it had no place to store the waste, and that it was not hazardous. The U.N. International Atomic Energy Agency said that Russia had informed the agency of its plans earlier. Moscow said that the dumpings would continue until 1997.

Somalia

Somali clan leader Aidid came out of hiding, announcing "I am not a warlord." He released American hostage Michael Durant as a goodwill gesture.

South Africa

Right-wing whites Janusz Walus and Clive Derby-Lewis

were convicted of the murder of Chris Hani, who was a popular black South African politician. The third defendant, Gayle Derby-Lewis, was acquitted. Her acquittal was criticized by ANC officials.

Sweden

The Royal Swedish Academy of Sciences awarded the Nobel Memorial Prize in Economic Science to two American economists, Robert W. Fogel and Douglass C. North. Professor Fogel of the University of Chicago is best known for working on the role of railroads in the development of the U.S., and controversial papers showing that slavery was economically efficient. The economics prize is the only Nobel Prize not initially established by Nobel.

The Nobel Prize in Chemistry was awarded to Kary B. Mullis of San Diego, and Michael Smith of the Uni-

versity of British Columbia, who showed how to mass-produce DNA and change genetic codes.

The Nobel Prize in Physics went to Russell A. Hulse and Joseph H. Taylor Jr., who discovered a binary pulsar. A binary pulsar is two neutron stars orbiting each other.

Turkey

Turkey proposed lifting the embargo on Iraq. Prime Minister said that Turkey had been the most damaged by the sanctions and deserved \$5 billion to compensate its losses.

United States

Clinton argued for the North American Free Trade Agreement (NAFTA). He said that currently tariffs are low enough that U.S. companies can relocate to Mexico, but that NAFTA would require Mexico to enforce environmental and labor laws, raising production costs, and making it less likely that companies would relocate.

The House voted 282-143 to kill the Superconducting Supercollider (SSC) project. Earlier, the House had voted to kill the SSC in a \$22 billion appropriation bill for water and energy projects, while the Senate had voted \$640 million for it. The House-Senate conference committee restored the funds for the SSC in the bill, and sent it back to the House. The House's recent vote cut all funds for the SSC from the bill, and sent it back to the conference committee with instructions to remove funds for the project. Senate proponents of the bill admitted defeat. The vote cut across party lines, with 166 Democrats, 115 Republicans and one independent voting for the SSC, and 98 Democrats and 61 Republicans voting against it.

The jury in the Denny trial found Williams and Watson largely innocent, finding them guilty of only one of 15 felony charges. Williams was convicted on one felony charge of mayhem, and four simple misdemeanors. Watson was found guilty of a misdemeanor assault. The jury deadlocked on the two charges of attempted murder, and the judge ordered the jury to resume deliberations.



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ASTA

CRIME AND INCIDENT BEAT

by Gypsy Achong

Crime Tip: Please do not leave valuables in unlocked desk drawers, even if the office is locked.

10/11 5:05 P.M. A student was hit by a west-bound car while crossing Del Mar. He was thrown on to the pavement and suffered numerous abrasions on his arms and legs. His bike was destroyed. \$165

10/12 1:00-3:45 P.M. A helmet was stolen from a bike parked on the south side of Church lab. The helmet was not secured to the bike. \$45

10/13 4:45 P.M.-10/14 3:30 P.M. A money bag containing twenty-five rolls of \$10 bills was removed from a drawer in the DRL's office. There was no sign of a forced entry but there was evidence that a key for the office was made from a mold. \$250

10/15 2:00-4:00 A.M. A black-and-white speckled, 18-speed mountain bike was stolen from inside 255 S. Hill. The living room door and outside screen door were unlocked and the bike was not secured to anything. \$630

10/16 2:00-8:00 A.M. A student's backpack was stolen from Ricketts House lounge while the student was asleep.

10/16 6:15-9:15 P.M. \$1000 was stolen from the Bride's room on the second floor mezzanine of the Ath. The money was inside a bride's purse which was in a blue bag. \$1000

10/17 3:10 A.M. Two students were assaulted and robbed at the corner of Holliston and Colorado by five men. Their wallets were stolen, and they both suffered lacerations to their heads.

This Week's Total: \$2090

RAVE REVIEWS KONTROL FAKTORY

by Leo Fontaine

The Kontrol Factory, Mondays at the Probe, has to be one of the least expensive nightclubs in L.A., or anywhere else for that matter. A koupon from the L.A. Weekly will get you in the door before 10:16 P.M. for only \$2 with a membership kard from any of the Probe's klubs. If you don't have a kard \$1 will get you one. In this kase least expensive doesn't mean cheap. This klub is kool! Onse in the door expekt to hear some of the finest industrial danse musik available anywhere, and an impressive light show to go with it. The klub is arranged in two levels with a bar and pool table downstairs; and with plases to sit, and perhaps a video skreen upstairs. The danse floor itself is huge with an impressive sound and light system. For those who drink, the bar features \$1 beer before 10:46 P.M. When you go, beware of the parking restriktions near the klub—they will tikit you! However, a few blox to the east there is unrestrikted parking. Wear Blak.

KONTROL FAKTORY: Mondays at The Probe, 836 N. Highland, Hollywood, (818) 797-7743. Prise: \$2/\$3/\$4/\$5. 18 and over.

Since the little editors decided to kut the klub listings from the little, this kolumn was started in the Tek in hopes that the reviews will be inkluded in the next little. This is an open kolumn; if you wish to write your own RAVE REVIEW, please submit your review to the Tek as you would any other submission.

Bridge Without Sam

by Jeff Goldsmith

Oops

Playing in a Grand National Teams Club Qualifying game, we are in danger (!) of not qualifying when I pick up this hand in third seat, vulnerable:

♠Q863 ♥QJ73 ♦AJ ♣AK6

Partner passes as dealer and RHO twitches for a second, but passes. We play a 15-17 1NT, so I have no problems on this round. The opponents remain silent (and fail to twitch anymore) and the auction continues:

PARTNER	ME
Pass	1NT
2♣	2♥
2♠	?

2♣ was Stayman, but since we use 1NT-2NT as artificial, partner might have to bid 2♣ with an invitational hand and no four-card major, so 2♣ shows an invitational hand with four spades and fewer than four hearts.

Three contracts see worthy of consideration now. I can play a partscore in spades, bid game in spades, or bid 3NT. I think stopping in 2NT is probably wrong; 2♣ is likely to play about as well.

I have 17 HCP, and on that basis, I should bid a game. Having found a 4-4 spade fit, 4♣ seems obvious, but is it right? This hand does not evaluate to 17 points in my book. I have a computer program that evaluates hands by such features as high-card concentration in long suits, losing trick count, and so on. It is adapted from an article by Jeff Rubens in "The Bridge World" called "The Four C's" which stands for *Caution! Complex Computer Count*. The computer claims this hand is worth 15.10 points, which seems a trifle low to me, but is not too far off-base. At matchpoints, I would seriously consider passing, but vulnerable at IMPs, one cannot cut these decisions too fine. I think the conditions make bidding game too lucrative to stop in a partscore.

Which game? With very soft cards (all those queens and jacks), I think 3NT might be much better than 4♣. I can easily see losing four top tricks opposite a nine-count. A heart ruff is quite possible, too. The danger in 3NT is two-fold: partner will never trust me again if I did not at least consider spades, and diamonds might be a weakness. Still, the doubleton diamond is AJ, and vs. Kxx or KQx, no ruff would be available. If I had to decide now, I think I'd bid 3NT rather than 4♣. Can I find out anything helpful?

I think so. I need to find some bid that will let partner identify where his high cards lie, in particular, whether or not he has the ♦K. 3♣ seems to fit the bill perfectly. If partner bids 3♦, 3NT must be right, while if he bids 3♥ or 3♠, the major suit fit rates to be best. If he bids 3♣, I can give further consideration to passing, though I think I shall bid 4♣ in that case. Perhaps if they double something I can reconsider.

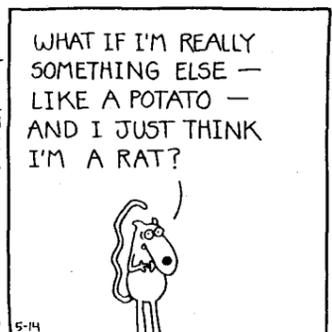
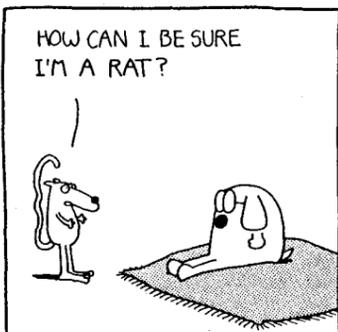
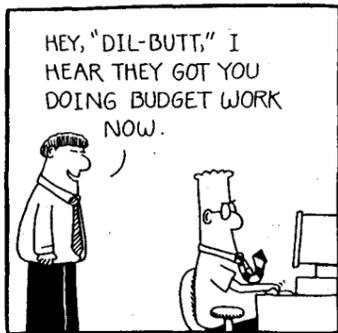
This partner is not a scientific bidder, and since we have not expressly discussed any continuations after this start, I have to worry that he might not interpret 3♣ as a probe for the best game. Worse, he might even pass, thinking that I have 2-4-2-5 distribution. Let's see if that should happen. With 2-4-2-5 and a maximum, I would open 1♣ and reverse unless a lot of my strength were in the short suits. In that case, I'd rebid 3NT here. If I had a minimum hand, I'd sign off rather than introducing a dubious suit at the three-level without any known fit. It seems to me that the inference that I must have a maximum to venture to the three-level is sufficiently sound that partner, even if he were to misinterpret my intentions, would not pass 3♣. I might not be able to trust his response, but at least I shall have something on which to decide between 3NT and 4♣. So I bid 3♣, though not without some reservations that I have just made a "torture bid."

Woe! Partner goes into a huddle, as I expected he might, but after only about two seconds, shrugs and flips the pass card on the table. Not feeling very good about this contract, I wish he had thought about it a little more. All's well that ends well, however, since partner quickly makes four on a 3-3 club break and some sloppy defense. (They think we are in a silly contract.) At the other table, my hand just bid 4♣ and declarer went down when he allowed the defense to break up a heart-club squeeze in the endposition. We won six IMPs on the hand and the match by six. What a way to win a match!

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

The North American College Bridge Contest is Tuesday November 9th. It is open to all students and carries a prize of \$500 each.

DILBERT® by Scott Adams



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presents

The Inside World

for the week of October 22, 1993 CE

Please be forewarned. This Inside World contains descriptions of things and acts that some people who aren't Rudds might not understand. In all actuality, some of us Rudds wish we didn't understand it either.

"Ouch! Vik, you penis, stop hitting me with that penis. Why do you have the King Dong? You are not BFD editor anymore." "Aww come on. I'm just playing with it."

Anyway, the scene begins in a darkened room in Ruddock House. Upstairs? Downstairs? Who cares? The room might be dark, but it is not quiet. Two people are engulfed in a raging fit of passion and lust, filling the room with sounds not unlike those that fill the dining room when ANANDI comes by.

Steve-O, wandering about in a clueless fashion (sorry for the redundancy) stops at the door of the room containing the hapless couple. He begins to read the whiteboard. Suddenly he shouts "Hey, where's my leg!" In a fit of confusion he bangs his head against the door, causing it to open.

In any case, there is only one thing that needs to be said now. Why haven't the HyperPsychoTurboFrosh gotten Tal off campus yet? (Note: this was written on Oct. 7, when the human three-day diversion was

still the leading candidate for Mastership.) Are the sophomores telling them they can't? Are the sophomores telling them it's not fair? Is Tal a wimp? Are the frosh wimps? Is half of the whole house going to come and shower Moeen and Hans soon? Just kidding. Hassle week is supposed to be FUN. So, it is all in fun. Shower Joe.

Back to the story. Naturally, Steve-O finds the open door irresistible and steps in. He sees a neat shiny stapler on the desk and reaches to pick it up.

Ruddock

"Hey, this is neat. Can I have it?"

Then, Steve-O realizes that he is in a dark room filled with sounds not unlike those that fill the dining room when ANANDI comes by. Steve-O, the consummate engineer, observes the docking procedure before him. He is fascinated by all the moving parts.

"Hey, have you guys done your homework yet? Why are you moving back and forth like that? Doesn't it get boring, doing the same repetitive motion over and over and over and over again? Hey, why are you stopping? I was just observing the

fabulous engineering that you two were performing. Hey, why are you pointing a gun at me? Is that a real gun? Aww, come on, let me see it. Please?"

KABOOM. Discriminating Rudds often use silencers, but sometimes you just need to hear the sound of a loud boom. Like in that classic childhood game we all know and love, "Duck, Duck, BOOM".

"Hey, what's all this red stuff? Did you shoot me? Is there a bullet inside my skull right now? Cool. Can you see it through the hole? Aaaaaaggghhhhh." Steve-O collapses lifeless on the floor.

It is time to point out the inspiration for this story. Yes, friends, all thanks (blame) must go to that enviable Rudd. No, I'm not going to make it that easy for you. But if you want to find out who it is, just join the math club. Finally, we would like to thank Nathan Mates, Ruddock's own off-campus CCO Rep, for making our use of the Ruddock House computer room an easy, care-free and pleasurable experience.

P.S. What the hell is a computer hassle???

—Da Pres and $(h/2\pi)^2$

THE INSIDE WORLD

A sub-publication of *The California Tech*

Zackary Dov Berger, Kurt Revis, and Jonathan Weinstein, editors (as such)

Policy

All Inside Worlds must include the author's name. Inside Worlds can only be written by current undergraduates or Suzette Cummings. The editors reserve the right to edit any or all parts of an Inside World. No libelous material will be accepted. It is the author's responsibility to check material written about a person to see if that person considers it libelous. Please submit via 3.5 inch Macintosh disk, or email to iw@tech.caltech.edu by 12:01 A.M. on the Sunday before the publication date.

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

Ruddock: Johansel Hornstein & Moeen Abedin

Lloyd: Keith Schnieder

Dabney: Michæl Benedetti

Unaffiliated: Hubert Jackson

Deans' Office: Suzette Cummings

Blacker: Zackary Dov Berger

Page: Dean Haritos

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Ricketts	0
Ruddock	3

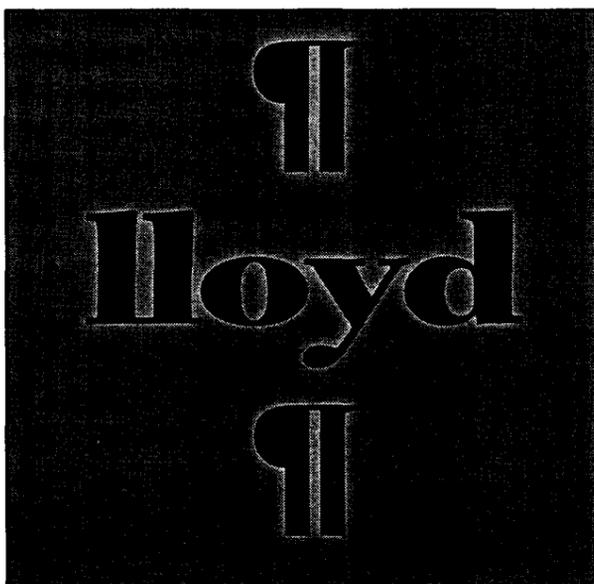
Free Phobos Now!

Phobos is one of two tiny moons held captive by the gravity of Mars. However, due to tidal dissipation, it is slowly spiraling inward, and will soon be destroyed forever. According to Prof. Peter Goldreich, Phobos only has 6×10^8 years left to live. You can help. Phobos International is a non-profit organization dedicated to the release of this oppressed moon from gravitational tyranny. We encourage you to take the following steps to help save Phobos, a member of one of the most endangered species in the Universe, the moons of Mars:

- refuse to buy any product that has been tested on Phobos. Look for the label "No insignificant moons of Mars were harmed in the production of this product."
- send letters to the responsible parties. In this case, send your letters of complaint to: Mars, the Red Planet, Mars, Mars, Mars.
- send money to Phobos International at Caltech Mailbox #125. Cash only, please. Thank you for your support.

I was thinking about writing an *Inside World*... This is not surprising since people usually tend to think about what they are doing. And it just so happens that I am writing an *Inside World*. This has occurred before: when I was a frosh... Oh no, I said it. I feel old. Caltech seems to weather people beyond their years. It seems like half the frosh are about sixteen, and nearly thirty when they leave. Okay, the truth is that some people actually are thirty when they leave. I cannot admit to being thirty, nor can I exactly specify a thirty-year-old student. But I think that more people would answer "yes" to the question "are you thirty" than might be expected. Of course, most of the people that would answer in such an affirmative manner would not actually be thirty and would probably just be trying to trick you (I don't mean you the reader personally, but rather I was attempting to refer to the person who might be asking the said question. The sentence was worded in such a way that I felt using "you" was worth the risk of the imminent ensuing confusion. Upon proofreading this article, something which I highly recommend (those spellcheckers don't catch everything, and the grammar checkers are, as far as I can tell, completely worthless), I felt it necessary to include this additional informational aside. Hopefully it will not interrupt the flow of the anecdote in progress so much that you (and this time I am referring to you, the person or otherwise intelligent being, who is reading this right now—it is funny how this works, when you (yes you... well, or anyone else in this case) think about it. Here I am, late at night, typing this in while you are not, but then at some time in the future (at least, in the future as I am writing this, but this is actually your present—not a gift, but a frame of time), you are reading exactly the thoughts that I thought fit to dictate in this form. Yes I can dictate, can't I. While you are reading this, you have to think about *platypuses* (or is it platypi?). See there, I just controlled your thoughts. At least for an instant, you were thinking about a platypus (most likely the duck-bill variety). Don't get the wrong impression of these animals. They are about half the size of an average housecat and can easily be held in your hand. This is assuming that the beast wants to be held, which is most likely contrary to fact. But given a scenario in which it desires to be held, one could easily manage the feat. Let me warn you now not to attempt to hold a platypus that does not find this action agreeable. Platypi can be quite ferocious when peeved. They are not nearly powerful enough to dismember a grown man, but the males (I do not intend to be sexist here; I am merely going to state a fact of nature. I had no control over the circumstances surrounding the evolution of the duck-bill platypus, so if you find yourself angered by the following revelation, it would not be reasonable to lodge a complaint with me) have venomous spurs on their hind legs (the legs are actually more like flippers—well sort of: they are webbed—okay, like a duck (this is the same duck that gives rise to the word "duck" imbedded into "duckbill". The bill is shaped like a duck's, but the case in point is that the feet of both animals are similarly suitable for aquatic propulsion. There are many other similarities between ducks and those mammals that have a feature resembling enough to warrant the inclusion of their name—although in a compound word—

into the description. For instance, they both lay eggs. This in itself is rather amazing, as their are few mammals (the platypus is a mammal) that do so. But I will not now delve into the wondrous highlights of a comparison of this magnitude [sorry about that pause—someone just knocked at my door wondering if a set of keys had been turned in to my roommate (who takes care of the computer room here in Lloyd House). I told him that I did not know, and that my roommate was asleep. Both of these things I told him were true, so I did not feel at all bad about telling him this. My roommate usually sleeps during the day, so far as I can tell, but at this point, he was asleep. I did not attempt to wake him, because I determined that the likelihood of his having a set of extra keys (which I did not see during a quick scan of the room) was low. Even though the room was rather dark, I would have noticed a prominently displayed (as if they had been turned in by someone who found them) ring of keys. At least I think it was a ring. Keys can be bound in a number of ways (or they need not be bound at all although this would be unusual. I don't think I have ever seen anyone fishing through his (again not meaning



to be sexist, but he and his are the pronouns of choice if the sex (by this I mean gender) of the person in question) pocket, looking for one key among many. This is not to say that someone out there does not carry his keys unbound in pocket. Rather, I am making a note that I have never observed someone doing so. Nor do I know of someone who has observed such a phenomenon (but as this is not a normal conversational topic (meaning that given the choice, probably few people would choose to talk about such a thing. Well, all I can say with certainty is that I would not choose to talk about such a thing. In fact, I can not readily think of something that would be more silly to discuss than the merits of binding one's keys with some sort of instrument), this is not surprising.)), but I am fairly certain that the ring is the most common (I had to count the parentheses there to make sure that I had the correct number. I did not want to skip some train of thought that had occurred before being interrupted by one that seemed more important at the time (the time at which the change in thought occurred). So now that person has left, without having gained any keys which I did not seem to have or be able to fetch quickly, so I can resume what I was writing about a few moments ago (before the person knocked to inquire about his (he was a male) keys.) right now. It is not that the eggs and the events that surround them are not fascinating, but rather I must move on due to lack

of time and space (this was not an attempt to work in some scientific terminology into this *Inside World*, but it has nonetheless occurred. If this offends you, then screw you (this is an insult and thus you should feel insulted. I do not wish to insult those who do not deserve it, however, so please determine in your own unique position whether or not you deserve to be insulted.). If you are mildly amused, feel free to offer sort of gratuity. For some reason, just as I typed the word "gratuity", the words "incontinent" and "flatulence" came to mind. I think it is likely that my mind was jolted towards a conversation I had earlier today). Now these spurs may or may not be dangerous enough to severely incapacitate a human. I suspect that they are probably not, but I would not want to take my chances. It might be interesting to say that I was once spurred by a platypus who was angry because I picked it up when it did not want to be, but I don't think the pain that I would endure as a result would be worth it. I suppose that I could wear gloves. I don't usually carry gloves with me, but in the event that I encountered a platypus that was available to be grabbed (whether or not it really wanted to be), I think that I might happen to have some gloves. You see, platypi are rarely found in the wild in the immediate vicinity of Pasadena (let's say within biking distance. Sometimes I am able to ride in someone else's car, but I don't have my own. And I am not so sure I'd want to share an intimate moment of platypus—handling with those in whose cars I often travel. This is nothing personal against those people, but a platypus is not something that you really want to be passing around). Therefore, an encounter with one would probably have been planned in advance, and thus I, knowing about the probability of being spurred, should the chosen platypus be male, would have thought to bring gloves. There, see I told you that I had power. I made you think for quite a while about platypuses (not that this is a bad thing), and you had no choice whether or not to do so. You could have skipped that entire discussion (I am not really discussing this with anyone, but I feel as if I am talking to you since I know that you will be reading this soon. You may wonder how I knew that you personally would be reading this at the given moment that you are, but let's just say that were you not reading this right now, you wouldn't be reading it. Profound isn't it. It is sort of like the anthropic principle. Were the Earth not habitable for human life, we would not live here. It is all very simple, yet many people try to draw various other conclusions from the fact that the Earth is so accommodating to our needs.) and just happened to jump to this location, but I (in my infinite wisdom) doubt it (for reasons I will not reveal.).). It is rather easy in most cases to determine when the response is not valid. Don't get too upset if you think that the response is not accurate. The importance of the question is not great enough to really worry about. Besides, what harm can really be done? Sure, you can be misinformed (and this could be disastrous if you suspect nothing), but there are certainly worse things that could have happened. Imagine if the questioner pierced your eardrum with an awl. That would really be terrible. But perhaps you shouldn't have been asking the question in the first place, so who is to blame? Has anyone seen Fingal?

Dabney

Meanwhile, here's the nicknames (thanks to all who contributed). If the seniors want nicknames, they can write them themselves.

Frosh

Shameel "Fake Snake" Arafin
Annaleese "Succubus" Beery
Neal "Q" Dalal
Dann "The Lizard" Dempsey
Carrie "Koala" Griffin
Michael "Miguelito" Herrera
Alison "Cleveland" Jackson
Hee «nichomelacedalchame»
«whatcouldbeperhapsthe»
forawalktohellorythere» Kim
Seth La...no, I mean David—wait...forget about it

Sarah "505" Laxton

Rowena "Willie" Lohman
Alan "Skeeter" McConchie
Aaron "Glacier Boy" Passey
Chris "Your Kiss Is On My List" Walker
Eileen "Boo Boo" Wexler
Jennie "Slyde" Yoder
Diana "Kreskin" Young
David "Grimy" Zito
Richard "Shep" Zitola

Sophomores

Laura "Almond" Brady
Vladik "Ahab" Bykov
Frederick "Pferd" Caldwell
Guillermo "Bill" Castillo
Andrea "It's a peace nickname!" Cavalluzzo
Dennis "Trylæn" Chang
Amalavoyal "Chari" Chari
Anand "Space Ghost" Chelian
Rudi "Moonlight" Cilibrasi
Andrew "Haggis Lad" Clarke
Travis "Maude" Collier
Jennifer "Yani" Copas
Kevin "Hüsker" Du
Chris "X" Echols
Daniel "Chain Lightning" Egnor
Robert Granat
Francisco "Slurp" Gutierrez
Heidi "Give me a hug!" Hofer
Xinh "R" Huynh
Edwina "Ferrigno" Lu
Ravi "Crnagara" Montenegro

π Qan

Miyabi "Gloves of Leather, Fists of Steel" Ota
Egon "The 5th Dimension" Pasztor
Anil "Sunkist" Roopnarine
Gary "Fay" Smith
Divya "Disney" Srinivasan
dabney.sophomore.sullivan.damien
Joseph "Iron Joe" Trela
Pearl "Set the Controls for the Heart of the" Tsun
Sean "Son of God" Vellucci

Juniors

Mina "Iron Butterfly" Aganagic
Jennifer "Cat" Barts
Michael "Le Cocteau" Benedetti
Karen "Napalm" Bruner
Brian "Funky Guitar Dude" Craft
Michael "Death Angel" Deierling
Chris "Godot" DuPuis
"Da Rev'rend" Ryan Hamilton
"Yo" Adrian Hightower
David "Headbutt" Hodnett
Jacob "Jake" Holland
Monwhea "No, I want the hug!" Jeng
Yun "Bubba" Kim
Susy "Cracker" Kohout
Karen "Kujo" Kustedjo
Heide "boingy!" Li
Travis "Spacecloth" Maron
John "Mar-kee" Marquis
"Uncle" Jesse McReynolds
Marko "Polo" Milek
Michael "Hosehead" Radford
Kurt "Get Out of Jail Free" Revis
David "Satan" Simpson
Katy "kT" Sippel
Steven "Frosty" Skovran
Anatoly "Hertz" Spitzkovsky
Heidi "D" Sutton
Kathleen "Faulkner Forever!" Tozer
Colleen Tuffy
Adam "Halbermensch" Villani
Stuart "Jon" Weinstein

unaffiliated unaffiliated unaffiliated unaffiliated

So, here I am a senior and do I get a fucking big on campus single? NO!! They tore down my house last year, and now I can't even submit an inside world for B-C (the new IW editors are assholes), instead I have to be "unaffiliated". (And now that Alley 1 is destroyed, I can't write the Alley 1 Inside World™, can I?) Them's the breaks, right, so I'll bitch more later.

So I went to visit Meathook (for all you frosh, Meat is really John Vord, who used to be our BOC rep, not that you probably fucking care), two weeks ago in the slammer, and he says that he's got three more years to serve if he gets max time off for good behavior. Yeah, right! At least Meat knows enough not to get his ass plugged by the caretakers' union. So he told me that Garrison got hucked in a pipe fight, and he was moved to solitary, so I couldn't see him. (Jeff was penned down near San Diego to begin with, so I haven't seen him for a couple of months, and anyway, he's another dish of monkeys, the crazy motherfucker.) Anyway, it's the same old Meat, and he sends his love (ha, ha) to all the Becks out there.

Before I moved into my own pad with Ivy, I was staying down at Morgan's place for a while (the good life, dude, except when he and that little Asher shit decided to go "food shopping"), and he let me have one of the jeeps for a while and everything. The man's a fucking saint. Well anyway, I'd better get to the Top Ten List™, or this mother will never end. Here's this week's Top Ten List™.

TOP TEN REASONS WHY IT SUCKS NOT LIVING IN B-C ANYMORE

10. I'm losing my reflexes without Eugene hucking darts at me all the time
9. No more Alley 4 Soda Machine (zwoop up, m'lord!)
8. Having to sign a lease
7. I feel stupid throwing stuff at myself while I eat dinner
6. I can't borrow Twitchie's sandals anymore
5. You can never have too much Candice
4. I can't strike matches on Arnold and Mabel's foreheads anymore
3. I haven't had a good fight in a while
2. No more Frosh Freeze

AND THE NUMBER ONE REASON WHY IT SUCKS NOT LIVING IN B-C IS:

1. Everhart

So what else is new, huh. Well, now it's time to award this week's Fucker of the Week™ Award. This week's Fucker of the Week™ is Gromcheck "Lick me, just because" Luvodna. Gromcheck, if someone gives you a job, try not to knock up his daughter before the second week, O.K.? What a fucker.

Man's gotta eat.

—the goaltender

Dean's Office

Date: 15 Oct 1993 08:32:36 T

From: Suzette Cummings

<suzette.cummings@starbase.caltech.edu>

Subject: INSIDE WORLD

Return-Receipt-To: Suzette Cummings

<suzette.cummings@starbase.caltech.edu>

To: Editors of the Tech <editors@tech.caltech.edu>

Reminder: The Deans' Office and the VP for Student Affairs Office should be getting copies of the "Inside World" in one copy of the Tech. Thanks.

Suzette

DEAN'S OFFICE

137-134

Three man-made objects are visible from space: the Great Wall of China, the Diet Coke machine, and a third thing that is too big and bright even to fit in this epigram...

—E. Dickson

BLACKER

Try not to stare down from Cannes at three o'clock in the morning.

You'll see what looks like a strange halo, a misplaced brightness lightening the floor. You'll wonder, you'll rub your chin, you'll think, "Hmm! What manner of thing is this?"

You'll pad downstairs in your PJs.

Your friends, seeing your mistake, will jump down the staircase and try to grab you by your shirttails: "Stop! Get away from there! Back to bed with you!"

But you'll move too fast for them.

As you take the final turn in the stairs you begin to have some inkling of what awaits you. There's only one thing in the Hovse—there's only one thing within a two-hundred-and-fifty mile radius—that possesses such brightness.

By then, though, you're already caught: your eyes widen, your nose quivers, the complicated thinking and identity centers of your brain conk out. As you take the last two steps, you metamorphose from the paragon of animals into a blubbering ball of jelly.

You turn and face the Diet Coke machine, no longer able to comprehend its power.

From then on you press your face up against it, press its buttons feverishly long after it has been emptied. You hug it in a poignant attempt to carry the machine up to your room, where you can sleep with it.

Your friends go to classes and take notes for you.

Expert neurologists shake their heads and use phrases like "exceptional case...zero chance of recovery..."

If you do recover, you curse the machine. With a gun you make from pure adrenalin alone, you riddle its front with bullets and render it a smoking hulk.

Enjoy Diet Coke! it cries after you feebly. Enjoy it!

You take to your heels...

Page

OK, so I see there is no Inside World happening, so I'm writing some crap in hopes that frosh will get going on this (they're the only ones who have time for it). And when I say "crap," believe me I mean it because I'll tell you straight out right now... this IW sucks. But Hey, I've got some insomnia action going on right now, so I figured, hey, why not be unproductive while I'm awake. What, you're still reading this? Gotta be the shoes. Speaking of shoes, let's think about Jordan for a moment. The man quit the NBA because it's too easy for him. OK, that's enough thought. Now let me be frank: now that Mike is gone, I hope all you fucking poser Bulls fans will give it up and return to your previous favorite mofo teams. I have been a Chicago fan since birth and it makes me sick to find all these newfound fans every time Chicago looks like it has a shot (or three) at the championship. In 7th grade, all of a sudden I had people telling me, hey you're a Bears fan too? That would have been fine had I been in Illinois, but at the time I was in Alabama. I never had a bat on me when it happened, so most of these assholes went unpunished. So anyway, the moral is: go away.

Looks like it's time for a new paragraph. Welcome to Page House, all you new frosh. (By the way, don't look for any transition or smooth flow between topics—this ain't no En 2 bullshit essay.) So frosh, like I said, welcome. Now that we have you, I feel I should clear up a few things about Page and Caltech houses in general. First, although you may think you are living in Page House right now, you're not. I know it's chiselled in stone on the front of the building, but that is just an RF left over from two years ago. The actual Page House is located just east of where you are living, and that's where you'll find all the truLLy cooLL Pageboys (We do not suck! You do! Whatever, dude.). Second, Fleming really is the coolest house, as will become more and more apparent as time passes. Just check out their sportsmanship, honor, and house loyalty (sorry boyz, but your coolest people prefer to mark "unaffiliated" when they have the chance). Sorry you all thought Page was the better house, because you were dead wrong, and now you have to suffer. Oh, you gonna suffa! (any EE frosh in the house? heh heh... you're screwed. Just ask Croissantwich. By the way, missing a class or not finishing a homework is not grounds for switching majors and/or transferring to PCC, Mark Cheng. Take a fucking pill.) At least we don't throw shit around at dinner. (We never said anything about lunch, though...) By the way, if you frosh haven't figured it out yet, the entrees, beverages, etc. thrown at lunch are not just random. The target is always Joe Lee. Sorry if we inadvertently tag you—don't take it personally, just join in! (although, if you women find yourselves being hit repeatedly by one (male) person, you

may have something to worry about (cf. "glomming" below).)

WHAM another change of topic.

So I have noticed, as I pass through the haLLowed haLLs of Page House, that there are several women around. Now, this surprises me as much as the next guy, but please notice I have not lost my head over it. Let me just supply you guys with a quick test that I suggest you memorize and refer to in all social situations: When you are standing around being you cool self, mac-in' on some woman, thinking, "Damn, am I a happenin' studly guy," stop. Look around you, dude. There are another 34 guys sitting around thinking the same thing to themselves, going, man, I am so IN with her. Now look more carefully. What's that you notice? ONE woman here for the 35 of you. Guess what, glommeister: YOU ARE NOT IN. The only way to preserve your honor is to excuse yourself politely and schmooz on over to the bar to drown your sorrows. (Dean? No, he never touches the stuff. Incidentally, he DOES always remember what he said at the time.) Got it? You are NOT in. OK, so that's all clear now. Now if you don't believe me, let's think about this. What happens to women after they are glommed continuously and continually for a year or so? Think hard boyz. That's right. They get SICK of it, and then they can't look a guy straight in the eye without wondering what his intentions are. (Hey, I know. Trust me. I used to be a woman in Page.) So then there is no point in glomming any longer, which I know shoots down almost every guy's social plans for the year. In order to prevent this tragedy from occurring, I propose that each house set up a schedule to determine legal glomming hours for their women (at the women's consent, of course—not that they have much of a choice at parties—hence, another benefit). Any man caught glomming (do "men" glom? I'm thinking no.) at any time other than his appointed time will be shot and then BOC-ed twice for good measure.

In sports news, the women's volleyball team is gay, of their own admission. Guess what, you creative folks, you: we were the Flaming Beavers first. "We" being the Caltech varsity soccer team, the winningest team in third division the NCAA has ever seen. In fact, if you check out our t-shirts from two years ago, as I'm sure you have as your source of "inspiration," it's written out in plain English. And whereas we have a reason for being called that, you, I would imagine, just thought it was totally cool. (Incidentally, you lose more points right there.) Do the words "Nobody fucks with a flaming beaver!" mean anything to you? Though not. 'Nuff said.

Devastating. Air is a woman-stealing whore—burn him at will. I hear South Carolina is hot and humid this time of year, but I prefer the colder climes. Sonic, don't ever do that again. Chiriu—gimme 5. Keep on Schw-NG-in'. CC let me down. 22.5=poor. Welcome to the newest Pageboy—get him a stein. Dahmer—padofles. No shit man yeah? I know.



ADAM VILLANI: MEDIA GUY

by Adam Villani

Tim Burton

The Nightmare Before Christmas

I knew that this movie was going to be technically brilliant, but as always, I was a bit skeptical about this hyped-up big-budget blockbuster. Luckily, my fears were allayed—this movie is quite enjoyable! The clincher in this film is the meticulous attention to detail by the animators and writers. Little things like the walking bathtub, alarm cat, penguin-powered sled, and the “wipe” cinematic joke really kept me on my toes while watching this movie opening weekend at the magnificent El Capitan Theater in Hollywood. The musical numbers are quite satisfying, serving to further the plot and develop the characters and setting instead of stalling the plot and being annoying like in many musicals.

The story follows the misguided takeover of Christmas by the folks in charge of Halloween. It's a pretty good children's story, and will amuse anyone wanting to relive childhood. Actual children might be frightened by the spooky imagery. It definitely has the patented Tim Burton feel, and I'd say it's his best film since “Edward Scissorhands.” As a special bonus, the El Capitan has some of the actual sets used in the film on display in the theater; bring your camera!

The Best Kissers in the World “Been There”

This is a new album by a college-radio band from Seattle with a sound that's already been done a few hundred times. This CD would be right at home in the pigeon hole labeled “alternative,” right next to all of the other bands in the world with tired, hackneyed guitar riffs and pseudo-clever, pseudo-sincere lyrics. The most interesting thing about this album is the story in the press release about gluing Cheez-Its together to build drawbridges or to recreate the Raid on Entebbe, but that doesn't come with the album when you buy it, so don't bother.

“Message from Nam”

This TV movie based on a Danielle Steele novel is the reason why Ricketts House was transformed into a Vietnamese orphanage over the summer. About five minutes or so of this cheesy romance were filmed in Ricketts, along with a good amount of footage at the Athenaeum. Its four-hour length is a bit long to watch for the camp value, but the second half is worth it just to see the bizarre effect of a post-bombing Ricketts, the pentagram being covered by a crucifix, and the climactic panoramic shot with glimpses of the mailboxes and every house except Ruddock. Also, watch out for some really dry “jungle” scenes.

An actual quote from an article in *Rolling Stone*
“Standing next to him was a tall, cadaverous boy with the arrowhead gauntness of an El Greco peasant.”



entertainment

Rush's Counterparts: Less Filling, Tastes Great

by Chris Echols and Trylæen

Ever use a digital distortion pedal? Wonder why the sound that comes out sounds so tinny and dead? You've lost the warmth and honesty of “plug it straight in and crank it up.” Rush threw out their racks of digital processors this time around to produce their best album since *Moving Pictures*. *Counterparts* has the heftiness of a more aggressive, more coherent Rush. Leaving behind their old blueprint-style arrangements, Rush put together a raw, honest sound without the comfort of digital effects and “batches of EQs” as bassist/vocalist Geddy Lee put it. They sought to bring the feel of the live

situation onto the record. Bass and drums have been pulled back to give the guitar more room to rock, and the monotonous synth choirs have been replaced by catchy off-beat keyboards.

You could call older Rush New York traffic, full of stops and starts. Its saving grace, and fatal flaw (counterparts, eh?) is Geddy Lee's incredible bass playing, Neil Peart's machine-gun drum fills and off-beat cymbal sticking, and guitarist Alex Lifeson's bluesy wailing. On *Counterparts*, Lee and Peart work together as a powerful rhythm section. Lifeson carries more sonic weight than he has in years, and there's plenty of room for the vocal melody. In short: tastes great and

less filling.

The “counterparts” theme, which, according to lyricist Neil Peart, fell into place accidentally, is the unifying thread of the album. The nut and bolt on the cover says it all; from the “lock, stock and barrel” photo rebus on the inlay to the word play of “Stick It Out,” counterparts abound in the lyric and packaging. Puzzling over the inlay sheet is as much fun as jamming to the music mindnumbingly loud in the *Tech* office. Peart is able to be more direct and personal as well, addressing the previously avoided *sex* and *love* (counterparts?) in an uncliché manner.

Final score: 8 wins, 2 losses, 1 tie.

Games & Puzzles: Open Poker

by Wei-Hwa Huang

Welcome to the premiere edition of Games & Puzzles! Hopefully this will be a regular column in the *Tech* where we can give out new puzzles, discuss old games, or give problems. So, without further ado, let us start our first column!

Here's a variant of poker that you may not have seen before; it's called *open poker*. (Actually, this is more a puzzle than a game.) The rules are quite similar to two player Draw Poker. First, dealer shuffles the cards, then non-dealer picks up five cards, then dealer picks up five cards. Non-dealer then gets to discard any number of his cards (up to five; here it differs from standard Draw Poker) and replenishes his hand from the unused

cards. Dealer then does the same, except that he may not pick up any of the discards his opponent has put down. The two hands are compared, and whoever has the highest hand wins.

Sounds like a stupid variant of five-card draw, right? Here's the catch: *All card faces are visible at all times*. In other words, the players pick the cards they want personally, and no secrets are held at all.

Of course, it still seems like a rather stupid game, right? I mean, first player (non-dealer) could just pick a royal flush, hold it, and guarantee a tie. So we add another rule: if two hands are identical (in number), then dealer wins. Suits have no rank in open poker, so the royal flush strategy won't work for the

first player. To refresh your memory, here are how hands rank:

Royal Flush (AKQJT of same suit), Straight Flush (a Straight in one suit), Four of a kind (xxxx), Full house (xxxxy), Flush (Five cards in the same suit), Straight (Five consecutive cards in number, no wraparounds), Three of a kind (xxxzy), Two Pair (xxyyz), One Pair (xxwyz).

Two questions:

- (1) Who has the winning strategy?
- (2) What is the best winning strategy?

Answers next issue.

Anything you'd like to see in this column? Send your suggestions, comments, and ideas to Wei-Hwa Huang, MSC 542, or call x1540 and leave a message.



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Cross Country out-dualed at La Mirada

by Tom Dmukauskas

Both the women's and men's cross country teams were barely outmuscled at the SCIAC 8-way Dual Meet this past weekend. The women were forced into 6th place with a record of 2-5 when Cal Lutheran edged them out by a score of 27-28. The men finished with an identical record and place but were instead beaten by Redlands, again by only one point.

Cailin Henderson led the charge on the wet grassy 5k course with a 21:25 to finish in 28th place of 79. Ginger Garcia was next in 33rd with a 21:51, followed by an amaz-

ing performance by the laryngitic Radhika Reddy in 39th with a 22:20. Gretchen Larson (43rd in 22:43) and Betsy Barton (45th in 22:51) rounded out the top five for the women. But, without Tessa Miller, the 3-4-6-7-8 finish against Cal Lu left the Beavers just short of 5th place. The ladies must look ahead to the SCIAC Championships, October 30th, for a chance to correct the situation.

On the men's side, a wisely paced race by Andy Zug allowed him to finish in 9th place of the 63 racers with a 27:25 on the 8k course. On the other hand, Ned Bowden set out at 5:20 through the 1st mile

only to falter to 30th in 29:20. Jesse Shue (21st in 28:21) and Ron Steiger (32nd in 29:41) both erased nearly 1:00 from their times two weeks ago on the same course. Alex "Il Duce" Spadini (42nd in 30:47) knocked more than 2:00 minutes off his time from two weeks ago, but because of an ailing Schuyler Cullen, this was not enough to stay ahead of Redlands in the final score. The men will be setting their sights on Redlands as well as Whittier when the championships come around next weekend at Prado Park in Chino.



photo courtesy Jim O'Brien

Teammates rouse Tessa Miller (face covered) from sweet dreams during the Angeles Crest 100-mile endurance Race.

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continued from page 1

Vargas

ices to student tutoring and organizations, Vargas takes a more active role in ensuring that his students (as Vargas occasionally refers to them) get a fair shake: for example, he sits in as a non-voting member on meetings of the Undergraduate Academic Standards and Honors Committee.

Finally, Vargas thinks about changing the system itself. Are minority student housing enclaves (similar to those found at other universities) right in the context of the house system? Vargas shrugs: the issue is "right for discussion." Vargas has another idea: why not include in Avery House (scheduled to be built in 1995) a "multicultural alley"? "Social learning," says Vargas—learning to live with other sorts of people—"can be as important as technical learning." Vargas expects opposition to these ideas: "Discussion is healthy," he says.

Although he is another old USC hand, Vargas's background is closer to students' than those of other administrators—his undergraduate training at the University was in integrated circuit design. The Assistant Dean, who is one class away from his M.S. in electrical engineering, recognizes what Techers go through: "You work six or seven hours on a problem set, and your friends at other colleges aren't doing nearly as much work." "You can leave," suggests Vargas, "or realize: I made a choice."

Vargas's choice is for "his" underrepresented minority students to be "healthy and successful at Caltech."

continued from page 1

Molina

the present, citing herself and several other successful Latino politicians as examples. In L.A. county, the voting precinct lines were constructed so as to divide the Latino community into separate pieces. Acting with the Mexican American Legal Defense Fund, the National Association for the Advancement of Colored People (NAACP), and the American Civil Liberties Union (ACLU), they successfully sued L.A. County on the grounds of intentional discrimination. Even though it took ten years and tremendous amounts of money and work, the lines in L.A. County were redrawn. As a result, the Latino community was able to elect a rep-

continued next page

Sports Results

Cross Country	Saturday, 10/16	SCIAC Multi-Dual Meet	Men's 6th place Women's 6th place
Soccer	Wednesday 10/20	vs Whittier	lost, 1-3
Volleyball	Friday 10/15	vs Bethany College	lost, 0-3
	Tuesday 10/19	vs Mount St. Mary's	lost, 0-3

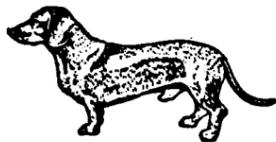
If you would like to see your team's scores in this space, please contact the editors or e-mail to damianm@ngcs (Damian Martinez)

Cross Country SCIAC Multi-Dual Scores

Men		Women	
Claremont-M-S	lost, 45-18	Cal Lutheran	lost, 28-27
La Verne	won, 23-35	Claremont-M-S	lost, 50-15
Occidental	lost, 36-19	Occidental	lost, 49-15
Pomona-Pitzer	lost, 36-20	Pomona-Pitzer	lost, 35-20
Redlands	lost, 28-27	Redlands	won, 21-34
Whittier	lost, 31-25	Whittier	lost, 48-15

continued from previous page
representative to first the Legislature, and now the L.A. County Board of Supervisors.

Molina spoke of the future by citing changing population figures. The Minority population of the United States is rapidly increasing, and the Latino community especially is very young. The Anglo population is growing old and getting smaller. In the future, the minorities of today will be the majority and the aging population will demand benefits and support. If the growing population is not educated and allowed to advance, then the support system will break down. In closing her speech, she issued a challenge to everyone to perform their duty to see that this would not happen.



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* Note: asterisks denote new announcements.

Notices

Poetry Sought for Book—General poetry is being accepted for the Western Poetry Association's 1994 poetry book entitled "Poetry: An American Heritage." Poets are invited to send one or two original poems of 24 lines or less on any subject. Poems with a point of view or statement are preferred. Mail submissions to: Western Poetry Association, P.O. Box 49445, Colorado Springs, CO 80940-9445. There is no reading fee.

Mark Russell will present "The Laughter and Song of Politics" on Friday, October 29 at 8 P.M. in Caltech's Beckman Auditorium, Michigan Avenue south of Del Mar Blvd.

The Los Angeles Branch of the Orton Dyslexia Society and the Los Angeles Chapter of the Learning Disabilities Association of California are holding their 3rd Annual Free Information Fair and LD Walkathon on Sunday, November 14, 1993 at Los Angeles Pierce College in Woodland Hills. Registration for the LD Walkathon begins at 8:00 A.M., the Free Information Fair opens at 9:00 A.M. For a free brochure and information call (818) 725-3777.

Work Abroad Meeting: Tuesday, November 9 from 12 noon until 1 P.M. in Winnett Lounge. Summer and academic year work opportunities abroad will be discussed. A yummy pizza lunch will be served. Call Lauren Stolper at x2150 by noon on November 8 if you plan to come. You may leave a message on the answering machine at any time. Please give your name, your favorite pizza toppings and how many slices you usually consume. This will help us to estimate the number of pizzas we need and the most favored toppings.

The Flying Karamazov Brothers will present their production "Juggle and Hyde" on Friday, October 22, at 8:00 P.M. in Beckman Auditorium. Tickets are priced at \$27.50, \$25.00, and \$22.50. Caltech students (with I.D.) can purchase half-price tickets in advance and Rush Tickets for \$7.50 beginning Friday, October 22 (subject to availability). Caltech faculty and staff can also receive discounts on tickets bought in advance or on Friday, October 22. Tickets can be purchased at the Caltech Ticket Office. Call x4652 for information. Individuals with a disability should call Deborah White, x4688 (Voice) or x3700 (TDD) Monday-Friday for information and assistance.

Want to work in Administration? The Vice President for Student Affairs Office is hiring a part-time student office assistant. You'll be answering phones, filing, doing light word processing on a Mac, running errands and working on special projects. We need a work-study student who is available for 6-10 hours each week. Great pay, plus all the free soda you can drink, for a reliable student! Please see Jerri in 108 Parsons-Gates for details.

Giant Pumpkin Raffle at the Caltech Bookstore—Get your raffle ticket free with any minimum purchase of \$2.00 or more. The drawing will be held on Wednesday October 27 at 4:00 in front of the bookstore. You need not be present to win.

Events & Services

Adult Children of Alcoholics, a 12-step group meets on campus every Tuesday from 12 noon to 1:00 P.M., in Spalding Lab room 114. This 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 x2961 or x8331.

Caltech Cyclo-Commuters—Our monthly meeting will be on Monday, October 25 at noon in the Benioff Room (256 S. Mudd). Anyone who rides a bike is welcome to attend, so bring your lunch as we discuss issues of interest to the bicycle commuting community. Contact Riley Geary at

Events and Notices

x6946 for further info or e-mail to: riley@bombay.gps

S.P.E.C.T.R.E., the Caltech Science Fiction Club, will again be showing films along a cyberpunk theme. Our next meeting is to be 7:30 P.M. Tuesday, October 26th in the SAC TV room (off the courtyard next to the Coffeehouse.) We will be featuring the films "Videodrome" and "Circuitry Man" and will discuss the new SF library policy.

Racquetball Club Tournament on November 13 and 14 to be held at the Braun Athletic Center during the normal hours of the gym. The entry fee includes racquetballs for the tournament with a tournament T-shirt. ASCIT, CSC, and OWC members will receive reduced entry fees courtesy of their organizations. Entry forms will be available at the Braun center or will be mailed to people by request. Please contact Larry at hazman@cco.caltech.edu or x6727

Caltech Alpine Club "Sit and Chat"—Bring a sack lunch to the patio outside the north end of Keck Laboratory on Wednesdays from 12 to 1. Talk about mountains, the weather, and outings, past and future.

Caltech Velo—The Caltech Bicycle Club will have their first meeting of the year on Wednesday, October 27 at 8:00 P.M. in Winnett Lounge. The club organizes all types of rides, both road and off-road rides, for all skill levels, from novice to advanced, including collegiate racing. All cyclists are welcome. We lead the following weekly rides, all meet in front of Winnett Lounge:
 • Monday, 5:00 p.m.: 15 easy paced miles
 • Tuesday, 5:30 p.m.: women only road ride
 • Wednesday, afternoon: off-road ride, times vary
 • Saturday, 10:00 a.m.: off-road ride
 Rides leave at the time listed, so please arrive a few minutes early. In addition, we are trying to organize a weekly off-road ride, and other recreational rides. In November, we will be going to the Dominguez Hills Velodrome for track bicycle riding. For more information, contact Michael Kantner at x4882 or send E-mail to kantner@hot.caltech.edu

Caltech Animé—Roy Jones and his lackeys will be watching Japanese movies in the SAC TV room from 7 P.M. to 1 A.M. on Saturday. This week's feature is *Dirty Pair: Project E.D.E.N.*, which will be shown at 9 P.M.

Pasadena YWCA Rape Crisis Center—Survivor Support Groups Forming (Adult Survivor, Adolescent Survivor, and Adult Survivor of Child Sexual Assault). The goals of the groups are: to reduce feelings of isolation, empower women, expose myths about sexual assault, and enable members to build support systems. These are peer-support groups, and do not profess to be "therapy groups," but therapy and healing do occur. Cost is free; nominal donations are accepted but not demanded. Contact the YWCA Rape Crisis Center at (818) 793-5171.

The Caltech Gay/Lesbian/Bisexual Support Group meets the first and third Tuesdays of each month 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, call 356-8331.

Pasadena YWCA Rape Crisis Center—Self Defense for Women. Classes held monthly. Saturdays from 12:00-4:00 P.M. September 25, Octo-

ber 16, November 6. \$25 per session (Sliding Scale, no woman turned away for lack of funds). Contact: (818) 793-5171.

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.

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

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

Mass—Thursday at 8:15 A.M. in the Y lounge and Sunday at 10 A.M. 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 x4886.

OpenLine—A group made up of students, staff, and faculty from many different departments on campus, and from a variety of ethnic and cultural backgrounds. We are both an action group and a discussion group. Our agenda is very flexible and is solely determined by what people in the group suggest. Drop by any meeting and say hello! We meet from noon to 1 P.M. on Tuesdays in the Y Lounge (2nd floor Winnett, feel free to bring your lunch!). Remember, we always welcome new people, at any time of the year. Hope to see sometime! For more information contact Gary Mines at x6542 (gam@zhmeia.caltech.edu).

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 A.M. For more information call 952-1631.

Israeli Folk Dancing—Sundays in Winnett lounge, Beginning instruction starts at 7:30 P.M., 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 P.M. 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 P.M. 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

The Battle for Reproductive Freedom: Margaret Sanger and Her Legacy—Dr. Ellen Chesler, who is the author of *Woman of Valor: Margaret Sanger and the Birth Control Movement in America*, and a fellow of The Twentieth Century Fund, will lecture on Thursday, November 4 at 4:00 P.M.

Scholarships, Internships, & Competitions

National Science Foundation Fellowship forms will be available in Career Development after October 27. This should still allow ample

time to meet the November 5 postmark deadline.

USA TODAY is enlisting your support in selecting the nation's best and brightest college students. Sixty students will be chosen to the 1994 All-USA Academic team. Twenty members of the first team will receive \$2,500 cash prizes and be the guests of USA TODAY at a guest luncheon. Factors given most weight by the judges are a nominee's scholarship or academic talent, creativity and leadership. In interest, please contact the Deans' Office, 102 Parsons-Gates for application information. Applications must be postmarked by November 30, 1993.

AT&T would like to foster an active interest in technological thinking and creativity through a special contest, open to both students and adults. Entrants are asked to write about technology they would find helpful in their own lives. Ideas submitted should improve home, school, work or community life, and must be described in 100 words or less and submitted to U.S. News by November 1, 1993. The Grand Prize winner will receive a pair of AT&T VideoPhones, and the winning idea may be published by AT&T in U.S. News this winter. If interested, the Deans' Office, 102 Parsons-Gates, has more information or type or print your idea in 100 words or less, include your name, address and telephone number and send by Nov. 1 to: FUTURE, U.S. News & World Report, 1290 Avenue of the Americas, New York, NY 10104.

For information on the following scholarships, please contact the individuals listed at the end of each scholarship.

Student Employment Exchange Programs—We salute those adventurers who refused to believe that the world was flat... International on the job training in 64 countries awaits students of engineering, computer science, mathematics, natural and physical sciences. International Association for the Exchange of Students for Technical Experience links American students with progressive employers in the industry, research institutes and universities, consulting firms, labs and other work environments around the world. Most placements are for 8 to 12 weeks during the summer. Most countries require English as a primary language. Applications are available at International Student Programs, Olive Walk, x6330. Student must complete sophomore year prior to participation. Application Deadline is December 10, 1993.

66 Fellowships will be awarded by the Howard Hughes Medical Institute for full-time study toward a Ph.D. or Sc.D. degree in the biological sciences. Awards are for three years, with extension possible for two additional years of full support. Fellowship awards provide an annual stipend of \$14,000 and a \$12,700 annual cost-of-education allowance. For more information or for copies of the Program Announcement or Application, call (202) 334-2872 or write to the Hughes Fellowship Program, The Fellowship Office, National Research Council, 2101 Constitution Avenue, Washington D.C. 20418.

United States Department of Energy: Integrated Manufacturing Pre-doctoral Fellowships—The United States DOE is offering twelve three-year fellowships for study toward the Ph.D. degree. Eligibility is limited to citizens, nationals, and permanent resident aliens of the United States, who will have received a master's degree by the fall of 1994, but evidence of equivalent post-baccalaureate professional industrial experience may be offered by the applicant in lieu of the master's degree. There is a stipend of \$20,000 per year, and up to \$15,000 per year will be provided toward tuition and fees. Selection is merit based. Contact: Fellowship Office, National Research Council, 2101 Constitution Avenue, Washington, D.C. 20418, or call (202) 334-2872. Initial application date is November 5, 1993.

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

The American Society of Heating, Refrigerating and Air-Conditioning Engineers, Inc. is announcing its Grant-in-Aid program. To be eligible for the program an applicant must be a full-time engineering student in the final two years of undergraduate study and have a cumulative grade point average of 3.25 or above. The Grant is intended to encourage the student to prepare for service in the HVAC&R industry, and to stimulate his/her interest in research. Applications must be received at ASHRAE Headquarters by December 15, 1993, to be considered. Applicants will be notified of the results by April 1, 1994.

The National Academy for Nuclear Training is beginning its competition for scholarships for the 1994-95 academic year. Scholarships are available to U.S. citizens who are pursuing a Bachelor's degree in nuclear engineering, power generation health physics, or mechanical, chemical, or electrical engineering with a nuclear or power option. A student's eligibility begins in his/her sophomore year. Preference will be shown to students considering careers in the nuclear power industry. Applicants must be enrolled full-time and a minimum GPA of 3.0 is required. The completed application and all other required documents must be submitted no later than January 21, 1994.

The Society for the Advancement of Material and Process Engineering (SAMPE) has begun its 1994 Undergraduate Award Program for students pursuing a BS in engineering. The awards are for recognition of past and present college scholastic and technical achievement and future potential. Applicants must have at least one semester of grades in that program by February 1, 1994, must be recommended by his or her department head, and have a 3.30 minimum cumulative grade point average. Completed application packages must be post marked no later than February 1, 1994. Awards will be presented in July of 1994.

The Data Processing Management Association is offering two scholarships for \$1,000 each provided by the Bert A. Monaghan Scholarship Fund. Applicants must have financial need and have made Computer Science their major career goal. The Scholarship Committee must receive the application by November 19, 1993.

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