

There were no reportable scandals this week.
But Voltron returns!
see page 5



ASCIT Movies
preview
see page 3

THE CALIFORNIA TECH

VOLUME C, NUMBER 4

PASADENA, CALIFORNIA

FRIDAY, OCTOBER 9, 1998

THE LITTLE T: ONLINE FOR THE FIRST TIME

BY AUTUMN LOOIJEN

Caltech's favorite undergraduate handbook is now on the web at <http://www.ugcs.caltech.edu/~littlet/>. All the content of the print version (and more) is now available from your local computer.

The little t editors warn that the web version of the little t has no Barbie pictures. It isn't even pink. Why this radical design change for the web? "I never got all the Barbie pictures scanned in. Just ran out of time," said Autumn Looijen, who designed the web version. "If you're craving some Barbie, you'd better find yourself a print version."

If you're willing to go without, though, the web version of the little t has a lot to offer, including driving directions to virtually all the restaurants. For example, you can now search each chapter with your web browser, letting you find the information you want in record time.

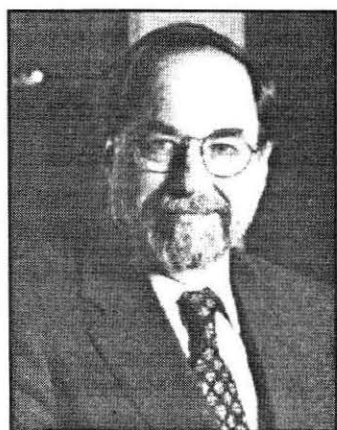
Most of the changes are in the restaurant section. Are you looking for an Indian restaurant within biking distance? An American restaurant with at least 3 stars? A restaurant with a price of \$\$\$\$ and a rating of one? The little t on the web can help — just go to the restaurant section and hit the search button.

If you've been meaning to submit a restaurant review to the little t, it just got a whole lot easier — the restaurant database has been redesigned from scratch, and you can now submit reviews online. Just fill in a few boxes, and press submit — your review will be sent to the editors, and as soon as they look at it, your review will be immortalized in the little t.

The little t editors will also work to keep the little t on the web up-to-date, correcting errors and adding content as the year goes on. (The editors ask that suggestions be sent to littlet@cco.)

PLEASE SEE LITTLE T ON PAGE 5

Baltimore opens Watson lectures



BY FAITH FULTON

Dr. David Baltimore, gave an intriguing lecture, "Cell Life and Cell Death" Wednesday as part of the Watson lecture series.

Baltimore delved into

the topic of cell death, or "apoptosis", pointing out the four main roles that it handles in cell life: sculpting the body, deleting structures, keeping a balance of cells and perhaps most importantly, eliminating dangerous or injured cells.

To illustrate the job apoptosis does in sculpting the body, Baltimore showed a slide of a mouse embryo's paw. The mouse's critical gene needed for cell death had been mutated and apoptosis did not occur. The mouse's paw was webbed like a duck.

Baltimore gave the example of tadpoles losing their tails for cell death's role in deleting structures.

The example of apoptosis maintaining a balance of cells was more gruesome. A picture of a mouse whose gene for cell death had been mutated showed the brain swollen to twice its normal size, popping out of the mouse's skull. Baltimore called the picture "gory, but I must say, gorgeous".

A quick video of the death of human lung cells highlighted the importance

of apoptosis eliminating dangerous (i.e. cancer) cells. The cells first start to bubble around the edges and then disintegrate, much like alkali-seltzer. The cell death occurred because of TNF. No, not TFM, but TNF — tumor necrosis factor, a protein that kills cancer cells by activating the NF-kB system.

Baltimore ended the lecture with a quick question and answer session. The next Watson lecture will be "The Search for Extraterrestrial Life: Lessons from Earth" by Dr. Ken Nealson on October 21.

Convenience Store Comes to Chandler

BY TECH STAFF

Overpriced, understocked, and understaffed, have been the general complaints made by some students about the convenience store since its opening three weeks ago in what was formerly the Red Door Cafe. It is now being managed by its supervisor, Gina Armas, the former manager of the Coffeehouse.

Concerns about the prices of the products being sold are being addressed. Initially, all prices were established by what

Core Mart, the store's vendor, had provided for recommended resale prices. Prices for some of the more popular goods have already been adjusted, although further adjustments will likely be done on a piecemeal basis.

It is not known what taxes must be paid by students in on-campus stores of this nature. Currently, a representative of the convenience store is at a tax seminar to learn the tax laws on this subject. Depending on the information he brings back, students may no longer be taxed.

PLEASE SEE CONVENIENCE ON PAGE 4

Pasadena Political Arena

BY TOBY BARTELS

In addition to the general election for state and federal offices, November 3 will also see five Pasadena City ballot measures, which, if passed, would amend the Pasadena City Charter. By the time this paper sees press, it will be too late to register to vote in California, or, if you are already registered, to change your address to Pasadena. Nevertheless, if you've taken care of this beforehand, you can vote on these measures November 3, from 7 am to 8 pm.

Two issues on the Pasadena City ballot, measures M and N, concern the city-wide election of

Pasadena Mayors. Two other measures O and P, offer competing visions of the compensation plan for members of the City Council (Council members). The last, measure Q, concerns the City's water and power utilities. Measures M, N, and P are a result of the Citizens Charter Reform Task Force (CCRTF), an *ad hoc* committee created by the City Council last year to recommend amendments to the City Charter. The complete text of the ballot measures, along with allegedly impartial analyses by the City Attorney and arguments one way or another submitted by the CCRTF and other people,

PLEASE SEE MARS ON PAGE 5



PHOTO BY ERIK DILL

Ben Brantly gets himself out of a tough spot on the Olive Walk during a round of frisbee golf.

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Organization Focuses on Mars

BY DEREK SHANNON

Over forty students eager to earn their plot of rocky red real estate met last Friday to found the Mars Society of Caltech/JPL (www.cco.caltech.edu/~mars). An offshoot of the national Mars Society (www.marssociety.org), the new organization will use scientific research, political pressure, and public outreach to put people - maybe even you - on Mars under the shortest timeline possible.

"People need to understand just how close Mars is to Earth, not only in the similarity of the two worlds, but also in our technological ability to get there. Connecting the broad public support for reaching Mars with the realization that it's simple and inexpensive to achieve is one of our main tasks," explained Caltech freshman Derek Shannon, who opened the meeting with a presentation on how we can send humans to Mars without tripling the NASA bud-

get. Shannon showed how a plan developed by aerospace engineer and Mars Society national founder Robert Zubrin to use Martian carbon dioxide as a resource would reduce the cost of a Mars mission from a ludicrous \$450 billion to a politically reasonable \$55 billion.

But more important than talking was the chance for new members to become actively involved in the race toward the Red Planet. According to Caltech freshman Serena Eley, "It's going to take a lot of people working together on a lot of diverse issues to get us to Mars. Everyone at the first meeting had a lot of enthusiasm for both the political and scientific challenges." The Caltech/JPL Mars Society is divided into task forces: one intended to organize political and public support for Mars exploration, and the other to work out technical issues.

The political task force will go beyond increasing awareness to actively persuading politi-

cians to jump on the Mars bandwagon, while using petitions and initiatives to reflect the tremendous public support for Mars. Also on the agenda will be expansion of NASA's robotic Mars missions, funding (at the level of \$130 million per year) for NASA's Human Exploration and Development of Space organization, and dismantlement of the legislative block against using Space Shuttle and International Space Station money for experiments oriented toward interplanetary human flight.

The technical task force will work on Mars-related science. Said Caltech sophomore Chris Hirata, who presented on improved humans-to-Mars trajectories at the Mars Society's national founding convention in August, "This doesn't require millions of dollars. For example, a re-analysis of existing data on space radiation could contribute significantly to a Mars program at low cost. And

PLEASE SEE MARS ON PAGE 5

Clubwatch!

All those interested in joining the American Society of Mechanical Engineers (ASME) should contact the club secretary at asme@its.

The Caltech Alpine Club organizes announcements, slide shows, trips and other related activities. Please send email to alpine@its or check the Caltech newsgroup caltech.announce.alpine.

The Caltech Chinese Culture Club (CCCC) and the Taiwanese Graduate Student Association (TGSA) strives to introduce Taiwanese culture to the Caltech community through cultural events and to enrich the social life of Taiwanese students. Events include sports games, parties, movies, and traditional festivals. All interested should email cccc@its.

The Caltech Women's Club welcomes all women and men in the Caltech community. Their activities include a babysitting co-op, book discussion group, French cooking classes, gallery goers, an investment club, play reading, a walking group, architectural tours, dining groups and many more fun, useful, and entertaining activities. To join please fill out

the form at www.cco.caltech.edu/~cwclub/membership.html. Membership is free for students.

The Darkroom Users Group (DRUG) maintains a complete darkroom for use of the Caltech community. It is located in SAC 39. It is equipped for both black and white and color film and print processing. For more information, contact Bill Weber (x2953) or Hans-Michael Muller (x4666) or email drug@its.

Students for the Exploitation of Space: Ron Stiver from the RCS will discuss quantum cryptography and the deep-space satellite network. 9:30 am today in Beckman Institute Auditorium.

The Student Shop is open to the entire Caltech community. It maintains a machine shop with tools for both metalworking and woodworking as well as many hand tools. It is open 24 hours a day to its members. Contact a committee member for more information or email studshop@its.

If your club is planning an event or meeting or has recently had one, please inform Clubwatch! by emailing editors@tech.

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Visit <http://www.its/~movies> for updates and other good stuff.

THE OUTSIDE WORLD

by Cheryl Forrest

WASHINGTON D.C.: The House of Representatives launched the third presidential impeachment inquiry in U.S. history on Thursday. 31 Democrats crossed party lines in a final vote of 256 to 178 in favor of starting an unrestricted probe. If articles of impeachment against Clinton are approved by the Judiciary Committee and then the full House, a trial will be held by the Senate. A two-thirds vote of members of the Senate is necessary in order to remove Clinton from office.

BELGRADE: U.S. Special envoy Richard Holbrooke is flying back to Belgrade Friday in a final attempt to persuade Yugoslav President Milosevic to withdraw his troops from Kosovo. NATO has threatened to launch air strikes if Milosevic doesn't stop military action against ethnic Albanians in Kosovo. Meanwhile, nonessential embassy personnel and their dependents are being evacuated from Yugoslavia.

TOKYO: Japanese Prime Minister Keizo Obuchi issued his country's strongest apology to date to the South Korean people for 35 years of brutal colonial rule on Thursday. In a joint declaration made by Obuchi and the South Korean President Kim Dae-jung, Obuchi expressed "deep remorse and extended a heartfelt apology to the people of South Korea, having humbly accepted the historical fact that Japan inflicted heavy damage and pain on the people of South Korea through its colonial rule."

HEBRON: A Palestinian protestor was killed and a news photographer seriously wounded on Thursday during a clash between stone throwers and Israeli troops. The situation started when Palestinian youths threw stones at Israeli soldiers across Hebron's divide after a general strike was declared.

WASHINGTON D.C.: In meetings this past weekend, Japan's top financial officials told American Treasury and Federal Reserve officials that their country's banking system is in desperate need of capital, with the top nineteen banks in more trouble than has previously been admitted. Given the current international monetary rules, Japan, which has the world's second largest economy, might be banned from operating internationally "if the rules were vigorously pursued," according to a top-ranking Japanese official.

CONVENIENCE...

CONTINUED FROM PAGE 2

The stocking situation is represented by the six pages of suggestions for new items posted on the wall beside the cashier.

Some of these were made before the store was fully stocked, and others have already been considered and enacted. The shelves of candy have been condensed to make room for health and beauty supplies. Requests for fresh fruit have been answered.

Perhaps of greater consequence to Caltech students are the rolls of duct tape that the store now sells.

However, those who desire the store to sell some goods will be disappointed. The chances of the convenience store selling liquor or cigarettes are rather poor. In addition to the difficulties involved in obtaining a license to sell such products, there

is still the consideration of underage drinking.

Even more mundane products like Pepsi and Snapple beverages will probably not be made available as this would result in a violation of the Dining Service's contract with Coca Cola.

The problems customers may have encountered with the staff should be resolved with time. The student volunteers received minimal training on the operation of the store's computer system prior to the opening of the store.

A permanent manager is to be hired soon to help relieve some of the organizational difficulties that the store has been having, problems which the customers have not failed to note.

Suggestion for new goods, and the reasons for them, can be made by writing to Gina Armas at gina@cco.

portation, creating a new branch of human civilization. Will robotic and human exploration of Mars in the next few decades pave the way for colonists? Only time will tell - but your fellow Techers in the Mars Society of Caltech/JPL are working to improve the odds. For questions, e-mail mars@cco.caltech.edu.

More Election Stuff...

CONTINUED FROM PAGE 2

can be found on the World Wide Web starting at <http://www.ci.pasadena.ca.us/cityclerk/election>.

Measures M & N:

Pasadena's mayor is currently chosen by the City Council from among the seven Councilmembers, who are chosen by district. The problem with this situation, according to a statement issued by the CCRTF, is that there is no election which focuses on issues of broad interest to the entire City; the elections for Councilmembers focus on issues specific to the seven districts. A Citywide election for Mayor, in contrast, would bring Citywide issues to the fore. The CCRTF's statement also implies that the Mayor is seen by the private sector as just another Councilmember who has been given a meaningless title. Ballot measure M, they argue, would increase the Mayor's stature. Note that the Mayor would continue to be a member of the City Council; there will be eight members if the measure passes instead of seven.

Pasadena also has a City Manager, who is appointed by the City Council, and this office will not be changed by the ballot measure. It is the City Manager who is really in charge of the City. He or she presents the budget to the City Council, for example. However, measure M includes a new provision that the Mayor will prepare a "thematic budget message" for the City Council before the City Manager's budget is presented.

If measure M passes, the issue of when the first Citywide election takes place will have to be decided. This is the job of measure N. Measure N, unlike the other ballot measures, is not a Yes/No proposition. Instead, voters will choose a date: either March 1999 or March 2001. If

measure M passes, the winning date will be the date of the first Citywide Mayoral election. If measure M fails, on the other hand, measure N becomes meaningless. A statement submitted by some Neighborhood Associations argues that the quicker election is the best. The CCRTF, on the other hand, notes that the deadline for filing as a Mayoral candidate falls in December, giving candidates far too short a time to prepare a candidacy. For you pattern lovers out there, four Councilmembers are elected in 1999, while only three are elected in 2001. A 1999 election date for Mayor would only increase this discrepancy. The CCRTF's statement argues this point as well, on the grounds that the two elections should have "equal interest level[s]".

Measures O & P:

Measures O and P concern the salaries of the Councilmembers and the Mayor. Currently, Councilmembers, including the Mayor, are paid \$50 for every Council meeting they attend, up to a maximum of \$250 per month. They get an additional \$50 because they form, at the same time, the Community Development Commission. According to a statement by the City Attorney, these levels were set in 1968; according to a statement in favor of measure O, this is lower than minimum wage.

Measure O gives the City Council the power to appoint a Committee on City Councilmembers' Compensation, which would present a recommendation on how, if at all, to change these salaries. The City Council would then have the power to change its members' salaries however it liked, except that the Committee's recommendation would be the maximum possible. However, the City Council could exceed

the Committee's recommendation, if this were approved by a vote of the people. The only argument in favor of the measure presented in an official statement is essentially that Councilmembers work hard and deserve more money. Another, unrepresented argument is that people with low incomes may not be able to afford to take time off from work to attend Council meetings and therefore can't afford to be Councilmembers. On the other hand, a statement presented in opposition argues that measure O is essentially "a two-step shell game." The City Council appoints the Committee on City Councilmembers' Compensation, so naturally the Committee will recommend whatever the Councilmembers want; the statement argues.

Measure P is a different approach to adjusting 1968 wages. It removes the Community Development Commission device and adjusts the salaries to \$250 per meeting, with a maximum of \$1000 per month; the Mayor's salary will be 50% more. Additionally, the measure extends health benefits to Councilmembers. There is also a provision for the City Council to increase the stipend, so long as it does so unanimously and no faster than at the rate of inflation. The CCRTF supports this measure, arguing that it adjusts the salaries to appropriate levels and ensures that they remain at appropriate levels without taking the power to set salaries away from the people, who traditionally set them through amendments to the City Charter.

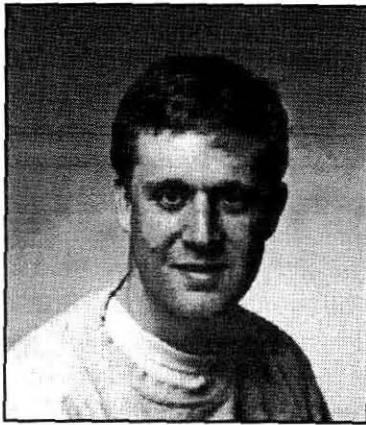
Measures O and P are, of course, contradictory. If both pass, only the one with the large number of Yes votes will take effect.

Measure Q:

Measure Q is the odd one out, because the CCRTF is not involved in it in any way. The

CONTINUED ON PAGE 3

FOOD



Now that rotation is over and people are finally settled into their respective houses (or hoves) I thought I would briefly discuss a few of the changes Caltech Dining Services has undergone.

WITH

First off, CDS has a new Director of the Board Program, Patrick Gannon. Patrick has been working the lines daily, and is meeting more students everyday! Make sure you introduce yourselves.

Second, there are many new machines in the kitchens. There are new coke machines (designed to minimize ice wastage), a sparkling water machine (which also provides purified water), a coffee machine with all you can drink espresso, and perhaps most revolutionary, a new Kosher/Muslim board plan.

Third, I thought I would bring up new ways to communicate your concerns to Caltech

FOOD

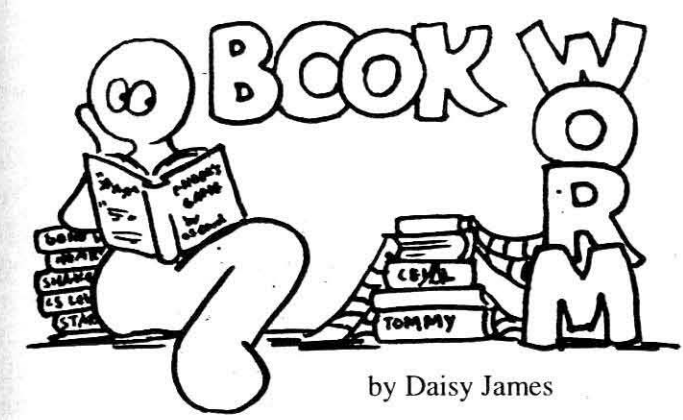
Dining Services. Patrick has set up an email account youeat2@its. He will personally read any complaints sent to this address. Also, if you have any question or concerns about the Kosher/Muslim board plan, email kosher@its. This address is where you should request to join the plan, or to order any special meals.

That only scratches the surface. There are new additions to the menu, daily nutritional analysis to come, and other changes all in the works. I'll keep you posted as always.

Till next time,

DAVE TYTELL

IHC Food Committee Meetings are held in the IHC/ASCIT board room in the SAC on Wednesdays at 4:00 P.M. Please come by if you have any questions or concerns.



by Daisy James

I thought that would start the year off with a review of the major local bookstores, for the benefit of those of you who have just arrived or have been here for three years and are just now contemplating going off campus. Included here are only the most prominent purveyors of the written word; I will write another column on local used and specialty bookstores at some point in the indeterminant future.

Vroman's My personal favorite, Vroman's manages to be at the same time large and cozy, with ample free parking. It is located in a two-story building next to Target on Colorado. Most of the books are on the first floor, with the second floor devoted to children's books, toys, cards and gifts. Their selection of most genres is excellent, though they seem to have for some reason eliminated their humor section. Like most large stores, they do tend heavily towards bestsellers, but a little hunting can turn up more interesting fare. Their bar-

gain section in particular is good, heavy on the coffee-table books but also housing some very decent literature. It has a nice atmosphere too, the place really feels like a bookstore.

Borders This newly-convenient chain was probably the last nail in the coffin of poor Crown, for a long time the only bookstore in quick walking distance. I can't say that we've lost much in the exchange. Crown seemed to specialize in terrible books, poor selection and an occasionally dirty environment. It was the best place around for buying puzzles though. Borders shares with it none of these traits. Another two-story bookstore/giftstore/coffeeshop with music and video sections thrown in for good measure, Borders is almost screamingly perfect. Actually, that kind of grates. It seems unnatural for a bookstore to have so much open space, as if they expect their customers to be pushing shopping carts or something. Adding to the super-

market impression is that the café is completely open to the store, making its patrons seem displayed. On the other hand, the selection of books is very good (six different versions of the Starr report alone, number one on the bestseller list, which is pretty funny when you consider that it's free.) Altogether, though, they don't do a good enough job of hiding the very commercial nature of the place; it's somewhere you go to buy, not somewhere you go to be.

Barnes and Noble The big loser in the accessibility area, Barnes and Nobles has no parking, is not within walking distance and the bus stops running after eight. This is a problem, because this is not a bookstore so much as a nightspot. At nine o'clock the crowd is elbow to elbow and you don't even have a chance of snagging one of the chairs that they keep for their browsers. There is a broad range of topics and genres represented but less depth in most than is found in either of the above. They do manage to avoid some of the layout problems of Borders, with lower lights, higher and closer-packed bookshelves, and the occasional cranny to give the place a cozier feel. But since the place and its adjoining Starbucks are hardly ever empty, the strongest overall impression is of being in a very trendy place.

Kathryn, who suggested the restaurant in the first place, had a raspberry mousse-ish cake which was nice in a fruity sort of way. It was worth the trip.

The Cheesecake Factory. They have a lot of desserts. They have a lot of cheesecake hybrids. Go figure. If you try any of their three chocolate cakes, including the Black-Out Cake and the Chocolate Mousse Cake, expect something large. They're all 5-layer cakes. Lexi said they were quite good and she wished she could come somewhere near finishing one sometime. Fudge fans should try the Flourless Chocolate Torte, which was the size of a normal cheesecake, but too rich to finish. All their desserts, including their cheesecakes, are topped with lots of whipped cream. Lexi found the whipped cream to be the style she liked, definitely above average. Katy thought their cream was too heavy and rather sick tasting though. The cheesecakes were all very good and fun, flavors like apple streusel, chocolate zebra, and heath bar make the cheesecake into an almost different dessert. They do their cheesecake pretty well, but with a name like The Cheesecake Factory, you should

Voltron Saves the Universe Again

BY TED RIVETTE

Remember watching Voltron? Considering that the series came out in 1984, the fact that many people still do says quite a lot. Couple that with Voltron's incredible popularity among animated series of the time and success worldwide, it's no wonder that Voltron is making a comeback.

First, reruns of the 1984 series, "Voltron: Defender of the Universe" have been running on The Cartoon Network for over a year in one of their key afternoon slots. However, the big news would be the new Voltron series, airing on network affiliates in over 90% of the country, including Los Angeles' own KTTV.

The new series, entitled "Voltron: The Third Dimension," picks up where the old series left off. It keeps all of the same heroes and villains. In the follow-up chronology, Lotor, the obsessive evil prince, conveniently survived the last battle - albeit in pretty bad condition - when his Fleet of Doom was destroyed. This time around though, his father, King Zarkon, is on the side of 'good.' Entertainingly, Keith, the leader of Voltron, is now heading up the Galaxy Environmental Corps.

According to World Events Productions, the series will supposedly develop some sort of plot having to do more with the legend of the lions, the castle, and the princess. This seems a leap for the series from "Form Blazing Sword!" and will be quite a surprise if it comes to fruition, given the current state of United States television animation.

However, so far, the story is doing well in its endeavor. The Galaxy is now run by a bureaucratic computer. Half of the Voltron team have disobeyed it to go after Lotor, minus Keith. It has been implied that Zarkon might not be as good as he appears either. Also, the current rumor is that Sven, the original pilot of the Blue Lion, will be making an appearance in the second half of the series.

Another major difference between the old series and the new is the fact that the new one is produced in complete 3D CGI, making it the first series of its type to be produced solely in the United States. This is quite a change from the original Voltron series which was dubbed from the Go-lion Japanese animation.

The CGI makes for some interesting character designs. While the lions and the fully formed Voltron look superb, the cast looks quite scary.

The ability to animate humans inexpensively must still be unknown to the industry. The Voltron team looks much older than they did in the original series and the face designs are much more unique. This time around, they're wearing uniforms that match the color of their lions (no more pink for Princess Allura.) The Princess, however, wears a tiara. Pidge looks less like a short nerdy boy and more like a tall nerdy college student. Lotor, because of his near death experience in the last series, looks somewhat like a Borg wannabe. However, the once slender alien prince must have been taking steroids in the interim.

A good portion of the original voice cast is kept, including B.J. Ward as Allura, Michael Bell as Lance, and Neil Ross as both Keith and Amalgamus. An interesting addition to the cast is that of Hollywood actor Tim Curry as the voice of Lotor.

Of course, a new Voltron means new Voltron toys. The new Voltron toy looks a lot like the old one, so much that it seems they took the old design and added a few more items to its arsenal. Either way, it's still a pretty neat toy, considering the fact that it's fully transformable. Still, like the old toy, the new one is unfortunately not to scale.

Trendmasters, the relatively young company, also known for the game War Planets and the production of many movie-based toys, is producing the toy. The toy has already done very well, selling out in Trendmaster's own on-line store.

Thirteen episodes are guaranteed to run this fall. The total of 26 episodes that will be produced will be released internationally in the spring, as well as being introduced this shortly at MIPCOM in Cannes, France.

expect something a little better. Still, we drop by their pretty frequently.

Starbucks. Katy didn't actually try the chocolate cake at Starbucks because it had nuts all along the side. Lexi did however, and found that while it was passable, it wasn't anything to be impressed by. Lexi often has their

Chocolate Mini-Bundt Cake though.

Pie n' Burger. This is a very home-style cake, no frills, just two layers with a thin icing by restaurant standards. We found the cake to be a tad bit on the dry side and the icing to be on the sugary side.

Avery Grill. We don't want to talk about this...

Chocolate, Chocolate!

by Lexi Baugher and Katy Isaacs

Parents never let you have chocolate cake for lunch. Parents never let you have chocolate cake for dinner. Parents never let you have chocolate cake for breakfast. However, our parents are very very far from here, so we've done all three. Now, we bring our chocolate findings to you.

Hamburger Hamlet. This place easily made our number one spot for chocolate cake. It was rich and moist and definitely chocolate. Even though Katy didn't think it was on the sugary side, with Lexi saying "I can feel my teeth rot." Katy found the icing tolerable, which she usually hates. She was more entertained by the scoops of vanilla ice cream which covered it. Lexi, however, went right for the chocolate. The desert is so large that even though we split it, there was still a good third of it left by the time we walked out the door. The Brownie Sundae we were able to finish though, however, this time we had a third person with us. This treat lived up to the example set by their ultimate chocolate cake.

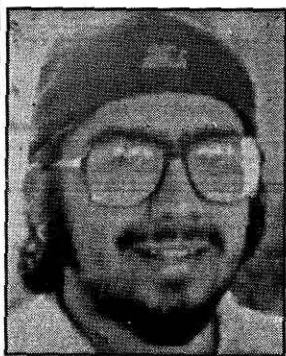
Borders. We found this lots of fun. Not only can you go there to read anything from Manga to

War and Peace to Cosmo in German, you can do this over a delightful selection of goodies. Their chocolate cake was also very moist. Katy found the icing a little sugary, but not overbearing. Lexi thought the chocolate came through loud and clear though. Most fun was the thin bar of chocolate on top. In our multiple trips back there to finish the stories we were reading and try the other treats, we also tried the Chocolate Mousse Cake. This is also a very good idea when you're looking for something nice and creamy.

The Red Door Café. Surprisingly very good and conveniently close, The Red Door has a chocolate cake just as good as Borders. Theirs was topped with a strawberry instead of a chocolate bar each time we went. Katy really likes strawberries so this was a nice treat. Lexi would prefer the chocolate. The little chocolate morsels that line the sides of the cake are also a welcome treat.

Mi Piacce. We actually didn't try anything that was straight chocolate cake here, but what we did try was very good. The tiramisu was described as "the best we've ever had." The triple chocolate cake pleased Lexi.

LETTERS FROM THE IHC



Rotation is over. You all have been spread throughout the seven undergraduate Houses. Some of you got into one of your top choices. You will soon discover that there are really [harsh language omitted by editors] in your House.

Some of you got into one of your bottom choices. You will soon discover that there are really cool people in your House. Neither of these things should be a surprise.

[Harsh language omitted by editors] and cool people are a universal phenomenon, so don't worry about it. How you ranked the Houses and where you did and didn't get into doesn't matter now.

You are in the House that you are in for a reason. A lot of time and consideration went into finding the best match between you and your House. You are now a full equal member of a House and that House will treat you as such.

Pretty soon the Houses will start with their annual initiations and traditions, all completely voluntary, of course.

These activities are meant to welcome you into the House. They are also meant to help you meet the upperclassmen and vice versa. These things will help you get rooted in the House. If you can and are willing, please participate in these activities. They are a great "bonding" experience.

While all this is going on, don't forget about the other Houses. I'm pretty sure that the friends you made during Rotation didn't all end up in the same House as you. Try to maintain these friendships.

A common regret I hear from upperclassmen is not having done this. It's not hard to do, it just requires some effort on your part.

Oh no, the "E" word. Whatever, you can still go to their House dinners, do your homework together, or become a social member.

There are plenty of things that you can do. Just remember, there isn't an invisible barrier between your House and the other Houses.

Jaideep Singh
IHC Chair

More Elections...

CONTINUED FROM PAGE 2

City of Pasadena currently operates water and power utilities. Measure Q will amend the language "shall" to "may," so that Pasadena is merely **allowed** to operate the utilities. The City may instead, however, choose to operate the utilities through an outside agency or even sell them off. There is a line in the measure, however, which stipulates that the City must present any sale to the people for a vote. Of course, Cities have been known to abuse the meaning of the word "sale" — ask this student about the hospitals in his home town. The measure is designed to provide flexibility for Pasadena Water and Power, which is losing customers to private companies.

How to Register to Vote in Pasadena

STEP 1: Become a U.S. citizen.

STEP 2: Reach the age of 18.

STEP 3: In general, the deadline for registering to vote is 29 days before the election. The next election will be in March.

STEP 4: Go to the Post Office in Keith Spalding or any other government building, and pick up an application. Alternatively, call the City Clerk's Office at (626) 744-4124, and they will mail you one.

STEP 5: Fill out the application and mail it in.

STEP 6: Don't forget to vote in March.

SENIORS: BRING PENCILS!

ARE YOU A SENIOR? DO YOU THINK YOU MIGHT BE? DID YOU MISS THE SENIOR MEETINGS THIS WEEK? DID YOU NOT EVEN HEAR ABOUT THEM? (THAT WOULD BE OUR FAULT) ALL IS NOT LOST! WE'RE MEETING AGAIN, TUESDAY AT 10:30 P.M., FOR THOSE WHO COULDN'T MAKE IT TO THE EARLIER MEETINGS. WE'LL BE DISCUSSING DITCH DAY, COMMENCEMENT SPEAKER, THE SENIOR GIFT, AND MORE. WE'VE SPAMMED MOST OF THE HOUSES SENIOR MAILING LISTS SO CHECK YOUR E-MAIL FOR THE LOCATION, ASK A FELLOW SENIOR, OR CONTACT ONE OF THE SENIOR CLASS OFFICERS. IF YOU CAN'T MAKE IT FIND US SOON TO GET A COMMENCEMENT SPEAKER SURVEY. PROF. J. MORGAN KOUSSER, CHAIR OF THE COMMENCEMENT COMMITTEE WOULD LIKE TO HAVE OUR INPUT BY THE END OF THE WEEK.

AUTUMN LOOIJEN (DABNEY 50, AUTUMN@UGCS)
ERIK STREED (BLACKER 00, STREED@ITS)
MIKE ASTLE (RICKETTS ONE HOLER, ASTLE@UGCS)

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PhD Round "0" Interviews: October 19, 1998

PhD First Round Interviews: October 27, 1998

PhD Final Round Interviews: Date varies by office

Graduating Seniors

Presentation/Case Interview Workshop: November 10, 1998

Associate Resume Deadline: December 4, 1998

Associate First Round Interviews: January 14, 1999

Associate Second Round Interviews: January 22, 1999

Associate Final Interviews: Date varies by office

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A.S.C.I.T. Minutes

OCTOBER 5, 1998

Minutes of the ASCIT BoD Meeting, 5 October 1998

Present: BoD (minus Devi), Kevin Bradley

Meeting called to order at 22:07.

Dealing With Guests

Kevin - Just chillin'.

General Business

Student/Faculty Conference - Seth Blumberg has some of the results of the conference from two years ago. Baldeep wants to turn this data over to Devi to be compiled. Jaideep suggests that we give the job to Steve instead because he wants to see it get done.

Book Market - Buy and sell used textbooks at www.ugcs/~book.

Web Council - Baldeep went to the most recent meeting of the Caltech web counsel. They are looking for feedback from students about what we want on the Caltech site. Mike suggests that the search engine from the top page be expanded to look at the entire caltech.edu domain.

Send any other suggestions to Baldeep (baldeep@cco).

Coffeehouse - Baldeep put Jen Caron in charge of grease slinging. This appointment is approved by a vote. Someone wonders aloud about the state of the TV room attached to the Coffeehouse. The equipment in there is in pretty bad shape. Mike suggests that the BoD use the unspent \$1000 from last year and the allocation for the Coffeehouse for this year to make some improvements. The buck is passed to Autumn.

IT Officer - ASCIT is employing an increasing amount of

information technology. The CLUE, little t, the Coffeehouse, and the BoD could benefit from a stronger (better-maintained) web presence. Baldeep thinks that the only way someone will do this job is if we give him or her a vote. Alan suggests that we just pay someone.

As always, there is a financial issue. Mike suggests that Student Affairs may be willing to pitch in.

Ex-Book - There will be a meeting soon between the editors of the little t, the Technique, and the Caltech Experience Book (www.cco/~ex-book) to talk about fusing their resources into an online uber-handbook.

Officer Reports

Steve - Waiting patiently for something to do.

Autumn - Andre turned

over responsibility for allocating storage space in the Winnett clubrooms to ASCIT. Baldeep turned this job over to Autumn. She reports that right now the closets are full of chairs and no keys are available. The ballroom dance people will be holding stuff their in the meantime.

Hanna - The End-of-Rotation party on Saturday lost out to some other shin-digs on the same evening. Signing power for the Social Director's account needs to be turned over. There was a meeting with folks from the Minority Student Affairs office about ensuring musical diversity at the party.

Jaideep - Rotation is over. Move day is sometime this week. Jaideep doesn't hate all of the frosh. The IHC will be sponsoring a forum soon to discuss the Rotation rules. The Student Advisors thing looks like it might get off the ground.

Jaideep will be meeting with the Deans again soon. If you have any input about the advisors system, you can contact Jen Fong (jenfong@cco), Devi Thota (devi@cco), or Marie Fox (fox@cco).

Rob - ASCIT will soon have documents attesting to the fact of our non-taxability. Our finances are being reorganized under Caltech. We will be able to charge expenses to a Caltech account that works sort of like a grant.

This system will be more convenient, have better accounting, and be covered by Caltech's internal auditing office. The taxes may or may not have been filed (probably yes). Rob is also looking into some kind of Visa thing.

Mike - An updated roster will be out soon. The Olive Walk kiosk is in need of some help. Meetings this term will be

Monday at 22:00 in SAC 33.

Alan - A summary of the issues raised in the 3rd term BoC talks will be published in the Tech. All went well at frosh camp. A bylaw amendment proposal will be coming out of the BoC after their open business meeting this term.

Baldeep - Two surveys were found in the office. One of them is for the Coffeehouse, but it has been outdated by recent developments. Another more general survey should work its way into student hands sometime somehow.

Meeting adjourned at 22:43.



Mike D. Astle
ASCIT Secretary

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Dean's Corner

The Joker, Surely

by Jean-Paul Revel

Cornell and Caltech. The reasons given for his choice were, first, he was tired of winter and having to put chains on his car; second, he was touched by his host, Caltech Physicist Robert Bacher, who thoughtfully loaned him a car, thus giving him easy access to Hollywood and the Sunset Strip; and, third, Caltech let him start off with a Sabbatical year (which he had earned at Cornell), so he could go and teach in Brazil, an experience he looked forward to, having greatly enjoyed a previous trip there.

Once at Caltech, however, and having experienced smog (it was much worse than now, in those days) he decided that winter was not so bad after all and made ready to return to Ithaca. In the end, though, being able to talk to people not in his field, like astronomers and biologists on our small campus, is apparently what got him to stay for good.

The only part of the book which even obliquely seemed to have to do with not being afraid to ask dumb questions was his

retelling of how he had to interpret a symbol on the blueprint of a Uranium enrichment plan he was reviewing with some of the designers. He was not sure if the symbol represented a valve, or a window, although that would have placed windows in peculiar locations in the diagram. As an important emissary to Oak Ridge from Los Alamos, he too embarrassed to ask directly, whether it was a valve or a window, he pointed to the squares overlaid by a cross and inquired what would happen if the valve became stuck.

As luck would have it, it was indeed a valve. Even more astounding was that, if that particular valve had gotten stuck there would have been so much enriched uranium accumulating in one spot that an explosion was possible.

Feynman seems to see his insight as luck, but in the eyes of others only a genius could so directly point to a major design flaw. Be that as it may, what counts is to realize one's shortcomings, and not to yield to the all too human fear of seeming dumb or inadequate because of it.

It may be a trite statement,

but you are here precisely because you don't know everything, or need to deepen your understanding. Why place yourself in the way of the Caltech grinder if you don't want to ask questions? Ask about the things that you do not understand. Go to classes, ask, read, and ask. Do the homework on time. If you need help, and can't find it in your lecture notes, your books, then turn to your classmates, your TA, a tutor, may be even your professor.

In my situation, with no classmates or tutors at hand and a deadline looming, I turned to the Internet where I found a quote from Bob Land, class of 1971, (<http://feynman.com/online/responses.htm>) who says: "What I remember vividly is that every lecture Dr. Feynman would begin by asking the class, 'First of all, are there any questions?' One morning when he got no response from the class, he swept his glance across all our faces then suddenly bellowed, 'Then what are you here for?' Some laughed, but he was not joking. 'You need to have questions because that's the only way we can know what answers to look for. Ask!' Hands went up right away."

There was also <http://feynman.com/online/quotes.htm>, a site where one can hear Feynman himself say "But

I don't have to know an answer. I don't feel frightened by not knowing things, by being lost in the mysterious universe without having any purpose, which is the way it really is, as far as I can tell, possibly. It doesn't frighten me."

Clearly my friend was right about how Feynman felt, even though it does not appear to have had much to do with his coming here. So in the end it was not quite like a wild goose chase. In fact I came across all kinds of relevant things while rereading *Surely you are joking...* all kinds of things I had forgotten.

For one Feynman's fascination with jokes and magic tricks including some with fire that ended painfully, and might have ended badly.

Nothing to glorify here, no, but one more reminder that fire and explosives endanger not only you, which is bad enough, but other Techers, and the Institute itself. The world would have been poorer indeed if Feynman, but I'd rather not go over that again, it is painful and I talked about it last week.

A *bientot*, my little Feynmans (apologies to Challenges & Choices).

Jean Paul Revel

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WOMEN'S CENTER CALENDAR OCTOBER 1998

October 9: He Said/She Said with Paula Goldsmid
Paula Goldsmid explores male-female communication as a cross-cultural experience.

October 13: The Future of Feminism: Lessons from Our Past with Sheila Tobias

This program is based on her recent book "Faces of Feminism: An Activist's Reflections on the Women's Movement". Sheila has also talked on the question of women in science and will be available to answer questions on the past, present and future of feminism and the status of women in science. This is a wonderful opportunity to meet Sheila and hear her thoughts on the status of women in society and the impact of the feminist movement on society. Reservations are a must as lunch will be served. Send an e-mail or call x3221.

October 22: Staying Healthy and Fit in College with Suzanna Webster

Suzanna will be discussing exercise, nutrition and eating disorders as it relates to college life.

* Programs are at noon in the Women's Center. Bring your own lunch unless otherwise noted. Women's Center Programs are open to all members of the Caltech Community. Please call x3221 for more information and to sign up for a program. We are located at 355 S. Holliston at the end of the Steele House driveway.

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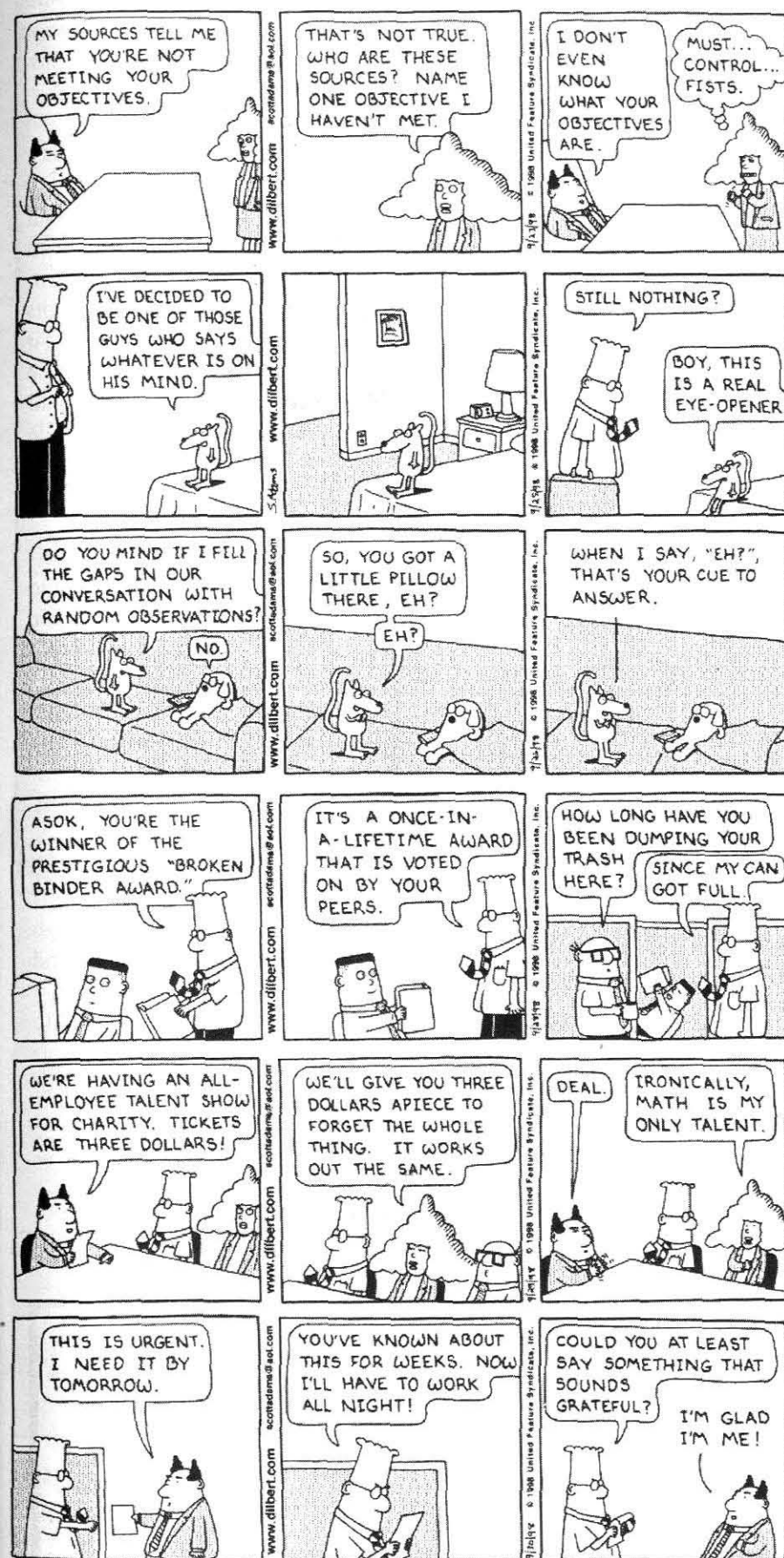
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Caltech Waterpolo makes splash!

BY GERALD PALMROSE

As an observer, water polo seems simple enough—pass the ball around and take a shot at the goal, much like soccer. But as I watched our water Beavers fighting it out, I realized that this game was a full force thrash and battle game.

As Aaron Hicks put it, "Water polo is like football, only it's more of a contact sport."

Last Saturday, the Water Polo Team opened up its inter-collegiate play hosting the Caltech Classic Tournament.

In the first game, Caltech, led by Mike Grebeck's two goals, took an early 3-2 lead in the first period.

Then just before half-time Biola scored on a nice lob shot to go up by one, 5-4.

But in the third period, the Beavers bounced back with two goals scored by Brian Collins

and Eagle Jones.

One minute later, Biola skipped a shot past Vladimir Fedorov and the game was again tied. However, with 0:34 remaining in the third, Matt Higbie buried a long shot right into the corner of the net.

This shot was worth two points, the water polo equivalent of a deep three-pointer in basketball. This put the Beavers up 8-6.

In the fourth, Biola tied the game on a quick inside shot, but were then shut down for the rest of the quarter by the excellent play of Tech's goalie, Vladimir Fedorov, and a very tight defense.

Tech then exercised some of their set plays and scored three consecutive goals to put the game out of reach, 11-8. Biola scored once more with 0:38 left to close the gap, but by then the Beavers had sealed the game up.

"Jones handled the set position very well and drew many kickouts and penalty shots," related Coach Dodd.

Other good play was turned in by Tom Daula, who handled mid tank and played solid defense, and Adam Thomason, who scored one goal and was a key component in the Beaver offense.

The other two matches found Caltech playing well at times but shooting poorly. The results were Caltech 6, Chapman College 15; and Caltech 6, Occidental 12.

Scoring for the two games were Jones 6, Grebeck 5, and Daula 1. Picked from Caltech for the "All Tournament Team" were defensive standout Mike Grebeck and play-maker Brian Collins.

The next home match is October 15, a rematch against Biola.

Running Towards Conference

BY TIM RAUB

Over hill, over dale, they hit the dusty trail... and start running. These are the eight kilometer animals — the athletes sucking ozone after endless intervals through San Marino. These are the cross-country runners.

Twenty-three Beaver athletes travelled to Biola last weekend to represent Caltech at the gruesome Biola Invitational.

Over a distance of five kilometers for women and eight kilometers for men, they measured their strength and endurance against runners from UCLA, CMS, LaVerne, Cal Lutheran, and twelve other teams.

The Beaver men turned in a strong ninth place performance while Caltech's womens' team beat LaVerne for the first time this season.

Sophomore Adrian Seymour led the mens' team, finishing 26th

in a field exceeding 200 runners and clocking a 27:51 over the hilly course.

Senior Conrad Ziesler put in a strong kick and junior Arjun Meniratta finished close behind, while freshmen Tim Raub and Kenny Higa rounded out the Beavers scoring five.

Several more runners ran promising times in their first race of the season.

Phyllis Chen led the womens' team again, covering 3.1 miles in 21:53. Freshman Amy Kelly followed her by a minute, and Paula Whitten, Aimee Pierce, and Tory Sturgeon also placed.

Coach Jasper Simon beamed, "It was a slow course but everyone ran solid times."

His Beavers are running far better than last year, despite an injury that has kept junior Ian Shapiro busy taking splits rather than running.

Asked to what he attributes

this year's series of strong races, Simon muttered something about "Reindeer Milk".

With a week until Conference Multi-Duals, the team will run shorter but more intense workouts in preparation for November's important meets.

With Shapiro back, several new runners in the mix, and two more weeks of training, the mens' team hopes to finish in the top half of the SCIAC and the women look to improve their place too.

Upcoming Sporting Events

Friday, October 9

4:30 pm Men's Soccer v. Stevens Institute of Technology

Saturday, October 10

11:00 am Men's Soccer at University of LaVerne

Tuesday, October 13

7:30 pm Women's Volleyball v. Life Bible

Wednesday, October 14

4:00 pm Men's Soccer v. Pomona-Pitzer

Thursday, October 15

4:30 pm Men's Water Polo v. Villanova

Recent Results

Men's Cross Country

9th at Biola

Invitational Women's Cross Country

13th at Biola Invitational

Men's Soccer

Whittier def. Caltech 5-1

Women's Volleyball

Occidental def. Caltech 3-1

Whittier def. Caltech 3-0

USC Club def. Caltech 3-0

Men's Water Polo

Caltech def. Biola 11-9

Chapman def. Caltech 15-6

Occidental def. Caltech 12-6

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First Round Interviews: November 19

Please send resume, cover letter and office preference:

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Mints

Announcements

Lost and Found Items from Frosh Camp: (1) Swiss Army Knife (1) B.U.M. Equipment Pocket Watch (1) Navy Blue Hooded Sweatshirt (1) Black Nylon jacket (1) Burgundy pillow case with pillow (1) Blue and tan plaid quilted jacket. Please contact Suzette Cummings, Assistant to the Dean of Students, Caltech 102-31, Pasadena, CA 91125. 626/395-6351 or Fax 626/577-4215. Please note new email address: suzette@caltech.edu

Come join the **Caltech Toastmasters Club** at our next meeting and find out how to improve your public-speaking skills. The Club meets every 3rd Thursday from 12:00 - 1:00 pm in Beckman Institute, room 121. The next meeting will be held on Thursday, October 15th. For more information please contact Louisa Toot, x3408, louisa@library.caltech.edu.

Caltech Guitar Classes for the Fall quarter will meet on Tuesdays, starting October 6 in Room 1 of the Student Activities Center (SAC) as follows:

Beginning Guitar Class
4:30 - 5:30 PM
Intermediate Guitar Class
3:00 - 4:00 PM
Advanced Guitar Class
5:30 - 6:30 PM

Classes feature a classical technique which can be used in many forms of guitar. Classical, flamenco and lighter pieces are explored including a jazz/folk chord system in the Beginning Class. Classes are free to Caltech students and other members of the CIT Community (space permitting). Undergrads can receive 3 units of credit if desired. Private instruction can also be arranged. The instructor, Classical Guitarist Darryl Denning, has an international background in teaching, performing and recording. For further information email Denning at ddenning@caltech or telephone (323) 465-0881.

GREEN CARD LOTTERY BEGINS IN OCTOBER The instructions for the 2000 Diversity Immigrant Visa Lottery have been announced. The dates for this lottery are October 1 through October 31, 1999. Nationals of China (mainland and Taiwan, except Hong Kong S.A.R.), India, the Philippines, South Korea, Vietnam, United Kingdom (except Northern Ireland) and its dependent territories, Poland, Colombia, Dominican Republic, El Salvador, Haiti, Jamaica, Mexico and Canada are not eligible for the program.

To pick up a copy of the procedures on how to apply for this Lottery, please stop by the International Students Programs office (Lloyd House, Olive Walk) if you are an international student, or the Faculty and Postdoctoral Scholars Office (Parsons-Gates 010) if you are an international postdoc, professor, researcher, or staff member.

Low-cost and free mammograms and Pap tests will be available at

hundreds of approved facilities throughout October and November. These facilities are listed in the free *Breast and Cervical Cancer Health Services Directory*. An English/Spanish directory is available by calling 1-(800)-706-3131 or visiting an American Cancer Society Office.

The **Los Angeles Philharmonic** is offering \$10.00 student rush tickets for the 1998/99 winter season. Current full-time students may purchase one ticket per ID at the box office prior to the performance. For current program information or a free schedule, please call 313-850-2000.

The **AIDS Service Center**, located at 1030 S. Arroyo Parkway, Pasadena, gives free anonymous HIV testing every Monday evening from 6:00 pm to 8:00 p.m. Walk-in are welcome but appointments are preferred. Call 888-448-9242.

Events

Lifeguard Project -- S.A.N.D. (Single and Now Dating), at the AIDS Service Center in Pasadena will take place on Thursday October 15th, from 7:00 p.m. to 9:30 p.m. Learn communications skills that will get you what you want. Learn how to say no to spending the night. Call 441-8495 ext. 263 for details.

Goodwill Industries of Southern California Book Sale and Preferred Merchandise Sale will take place on Saturday, October 17th from 8:00 a.m. to 3:00 p.m. and October 18th from 10:00 a.m. to 3:00 p.m. at 342 San Fernando Rd in Lincoln Heights. The event will feature over 40,000 books, in addition to the hundreds of household items that already are sold at the address.

Pulitzer Prizewinner Jules Feiffer will be lecturing Wednesday October 28th at 7:30 p.m. at the Skirball Cultural Center as part of the "Cartoon Art" Lecture series. For tickets call 213-660-8587.

"Corporate Tyranny: A Call to Action," sponsored by Mobilization for the Human Family will occur Saturday, October 17 from 9:00 am to 12:30 pm at the Immanuel Presbyterian Church, 3300 Wilshire Blvd. Registration starts at 8:30 am. There is no fee and child care is available. For more information, call the Mobilization Office at 909-625-8722.

The next **Watson Lecture Series** presentation will feature Kenneth H. Nealson, Senior Research Scientist, Jet Propulsion Laboratory, in a talk entitled "The Search for Extraterrestrial Life: Lessons from Earth." The lecture will take place on October 21st at 8:00 p.m. at Beckman Auditorium. The lecture is free and seating is based on a first-come, first-served basis.

The **World Acappellafest** will be held Saturday October 17, 1998 at

the John Anson Ford Amphitheatre in Hollywood. There will be an afternoon concert at 3:00 pm and an evening concert at 7:30 pm. For information and tickets, call 877-222-7352.

The San Gabriel Valley Chapter of the Red Cross is holding their first annual **Haunted Mansion** event Halloween weekend; October 29th from 6:00 p.m. to 9:00 p.m., October 30th from 6:00 p.m.-10:00 p.m. and October 31st from 5:00 p.m. to 10:00 p.m. It will be held at the Red Cross Headquarters, 430 Madeline Drive in Pasadena (corner of Orange Grove Boulevard & Madeline Drive).

Fellowships and Scholarships

NSEP Scholarships for 1999-2000

Applications for National Security Education Program (NSEP) undergraduate scholarships are currently available for study abroad in summer 1999, fall 1999, and spring 2000. Scholarships are available to U.S. citizens enrolled at two- and four-year institutions who wish to study abroad in critical world areas in Africa, Asia, Eastern and Central Europe, Latin and South America, and the Middle East. Scholarships are not available for study in Western Europe, Canada, Australia, and New Zealand. Sophomores and Juniors majoring in science and engineering may apply to study for a summer. This summer, Walt Ogburn '99 studied Russian language in culture in St. Petersburg under an NSEP Fellowship. During the summer of 1998, Jeanne Wilson '98, who is now on a Watson Fellowship, studied Turkish language and culture in Istanbul.

The maximum scholarship is \$8,000 per semester and \$16,000 per academic year. **The campus application deadline for the 1999-2000 academic year is January 25, 1999.** Turn all materials into the Fellowships Advising Office, Room 25 of the SAC. All applicants must undergo and endorsement interview with Lauren Stolper, Director of Fellowships Advising Applications will be available in Fellowships Advising by mid-October. Additional information on preferred geographic regions, languages, and fields of study and application procedures can be found at <http://www.iie.org/nsep> (FAR)

Watson. There will be an information meeting on the Watson at which the current director of the program, Noreen Tuross, will speak. We encourage seniors and juniors to attend this meeting. Note that only seniors can apply this year. However, we cannot guarantee that the director will be on campus to speak next fall, so take advantage of this opportunity to get information now if you are a junior. Friday, October 2nd, 1998 at 12 noon in the Winnett Club Room. We will be serving a nice buffet luncheon.

Please RSVP to fellowships@cco.caltech.edu by October 28. Give us your name, your board contract number if you are on board, and state if you are a junior or senior. If you have special food needs (we will have a vegetable item) please call Karen Johnson at ext. 2150. Note that the Watson deadline is Monday, October 12 at 12 noon. You can read essays of former winners in the Fellowships Advising Office. Contact our office if you have questions. (FAR)

NSF. Applications for the NSF are available in Fellowships Advising or on the Web at <http://www.fastlane.nsf.gov>. Click on the GRFP icon. The application submission deadline is November 5. U.S. citizenship or permanent residency required. (FAR)

Hertz Fellowship. Applications for the Hertz are only available on the Web at <http://www.hertzfndn.org>. The application submission deadline is October 23. Applicants must have a 3.75 GPA and U.S. citizenship or permanent residency is required. (FAR)

Attention Senior Women and Minority Seniors. All female and minority seniors seeking to pursue doctoral degrees in either astronomy, chemistry, computer science, geology, materials science, math, or physics and related fields should apply for the National Physical Sciences Consortium Graduate Fellowships in the Physical Sciences. Applications are available at <http://www.npsc.org>. The application deadline is November 5. Applicants must be U.S. citizens with a minimum 3.0 GPA. (FAR)

The Hispanic Scholarship Fund (formerly the National Hispanic Scholarship Fund) is accepting applications for scholarship awards ranging from \$500 to \$2,000. Applicants must be U.S. Citizens or permanent residents of Hispanic heritage, full-time undergraduate or graduate students, and already

completed at least 45 units of undergraduate work with a minimum 2.5 GPA. Applications are available in the Financial Aid Office. The deadline is October 15, 1998. (UFA)

The Southern California Chapter of Women in Cable & Telecommunications is offering a \$1,000 Jeanne Cardinal Grant to one female junior or senior student residing in Southern California. Applicants must plan to pursue a career in the telecommunications field, have a 3.0 or higher GPA, and be active in at least one school approved campus organization or in community service. Applications are available in the Financial Aid Office. Applications are to be completed and sent to: The Southern California Chapter of Women in Cable & Telecommunications, c/o Pamela Drake, Avenue TV Cable Service, Inc., PO Box 1458, Ventura, California, 93002. The deadline is December 31, 1998. (UFA)

The Northrop Grumman Corporation is offering a \$3,000 scholarship to an undergraduate who has a career interest in the Aerospace/Defense Industry. Applicants must be U.S. Citizens, full-time students in 1998-99, and must have a 3.0 or higher GPA. Applicants must also be majoring in one of the following fields: Electrical Engineering, Mechanical Engineering, Aerospace Engineering, Computer Science/Engineering, or Manufacturing Engineering. To apply, submit a resume and academic transcript to the Financial Aid Office by October 16, 1998. (UFA)

For information on the listed fellowships, assistance with essays, for clarification of questions, contact:

FAR - The Fellowships Advising and Resources Office.

For information, please contact lauren_stolper@starbase1.caltech.edu. To make an appointment, call x2150

UFA - The Undergraduate Financial Aid Office.

For information, call x6280, or stop by 515 S. Wilson for an appointment.

To submit an event for the Mints, contact mints@tech.caltech.edu or Mail Code 040-058 by noon on the Monday prior to its inclusion. Submissions must be brief and concise. Please do not send Mints in difficult formats like binhex or word document, .rtf and ASCII are best. The editors reserve the right to edit and abridge all material.

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