**Class of 2007 Survives Frosch Camp**

**By TAMMY MA**

Shy and confused students, excit-edly gripping their sleeping bags and thinking that the whole thing could be inside a camp? For the fourth consecutive year, Caltech welcomed a new genera- tion of incoming freshmen at Astracamp Desert Sun Science Center located in the hills of Idyllwild, California. Over the course of three days, beginning on Monday, September 22nd, the class of 2007 along with the new transfer students were treated to a mix of outdoor activi- ties, team-building exercises, Chal­lenges, and Choices skits, and talks from members of ASCiE, the BoC and IHC. The idea was to allow the new incoming undergraduates to become familiar and comfortable with the Caltech atmosphere and to introduce them to members of the Caltech community. Because Frosch Camp was slightly shorter than in previous years due to convocation early Monday morning, the freshmen were kept very busy moving from talk to talk and activity to activity. Similar to the previous three years, Challenges and Choices skits illustrated academic and so­ cial problems and solutions, fol­lowed by group discussions of im­portant issues faced by Caltech stu­dents. Said Challenges and Choices coordinator, Susan Comer, “We tried something new this year with the small groups. I think it worked really well because it gave the freshmen and Choices counselors more interaction with each other. We hope this gives our new students a heads up so there aren’t quite as many surprises for them going into their first year.” The video “Codigo” was given by Galen Larson ’05, ASCiE Vice President and BoC Chair. Although the video was serious in topic, it made a little more interesting Galen went so far as to set his own shirt on fire to demonstrate the difference between a BoC-offable and a CRC one.

**Improving the Tech Ratio**

**By JANET ZHOU**

“The ratio” is a perpetual prob- lem that has plagued Caltech since women were first admitted. But it is a problem we are now working to improve. Candice Liebau, As­sistant Admissions Advisor, is now concentrating her energies and ef­forts on the recruitment of women to Caltech.

“I should think that there would be no difference between the yield for men and women,” said Liebau, whose short term goal is to raise the yield for women up to, or higher than, that of men.

Over the summer, Liebau held two focus groups to discuss effec­tive strategies for the recruitment of women students. The discussions were also attended by Candice Ryppi, director of the Caltech Women’s Center, and undergra­duate women students. The two groups had overlapping observa­tions and suggestions for increasing yield.

Personal contact was seen as the single most important strategy for recruiting women students. Stud­ents suggested continuing the ex­isting methods of calling applicants and admitted students, and in-person interaction with current stu­dents, such as during school breaks, at Prefest Weekend, and admitted student receptions.

Liebau is working to build the network necessary to increase the level of personal contact. She is currently writing a letter to Caltech alumnae asking for their participa­tion. “I look forward to working with Caltech undergraduates and alumnae to encourage girls to pur­sue their interests in math and sci­ence, and where appropriate, to consider Caltech for their under­graduate studies,” expressed Liebau.

New suggested strategies in­cluded an email contact program, where a list of Caltech students are sent to prospective students to serve as resources, and instant messaging nights, where a chatroom could be set up for a question and answer session.

The focus groups decided against publishing a brochure targeted to recruiting prospective women stu­dents. The groups decided it was better welcoming ceremony. Since many people were interested in having a Convocation, which had been witnessed at other universities, planning began in earnest in the spring to bring the ceremony to Caltech with the time by the fall being finalized.

A few words of welcome to the newcomers. President David Baltimore followed her greeting with a short talk titled “A Passion For Science.” Despite all the information available about Caltech, President Baltimore seemed surprised with what he found when he took the helm seven years ago. Saying, “It’s hard to believe this place exists,” Caltech’s President greeted the unique institution and went on to share his view on what the right person for Caltech would be like.

**Caltech Welcomes Students With Inaugural Convocation**

**By MATTHEW WALKER**

The first day as Techers began with a light Continental breakfast at 8 a.m. in front of Beckman Au­ditorium. Enjoying an assortment of breads, pastries, and fruit, those that arrived early mingled for an hour while they awaited the nine o’clock opening of Caltech’s first Convo­cation. For the freshmen, first year grad students, new faculty, staff, and visitors alike, the ceremony would mark the beginning of a new chapter of their lives.

Convocation is perhaps best de­scribed as the counter-part to gradu­ation. While a fairly common oc­currence among colleges, this year marked Caltech’s christening of such an event. Lacking the formal­ity of graduation, Convocation serves as the sort of official wel­come to newcomers to the Caltech community.

After last year’s Rotation, the ad­ministration started pondering a better welcoming ceremony. Since many people were interested in having a Convocation, which had been witnessed at other universities, planning began in earnest in the spring to bring the ceremony to Caltech with the time by the fall being finalized.

A few words of welcome to the newcomers. President David Baltimore followed her greeting with a short talk titled “A Passion For Science.” Despite all the information available about Caltech, President Baltimore seemed surprised with what he found when he took the helm seven years ago. Saying, “It’s hard to believe this place exists,” Caltech’s President greeted the unique institution and went on to share his view on what the right person for Caltech would be like.
Caltech: No CD Player, No Seats, No Driver, No Sweat!

By MARK WHEELER

Interstate 15 is a virtual race track on any given Friday night, as road warriors from Los Angeles speed to cover the 250 miles to the neon-lit towns way refer to as “Lost Wages” (that is, of course, Las Vegas).

Making that same journey off-road across the Mojave desert would be a little insane for these folks. Making that same journey without a driver would be crazier still, but that’s exactly what a group of undergraduates at the California Institute of Technology plan on doing. Talk about gambling.

The team of 23 Caltech students is competing for a $1 million prize in the DARPA Grand Challenge autonomous ground vehicle race, sponsored by the Defense Advanced Research Projects Agency. This will not be a remote-controlled vehicle driven by a student wielding a laptop at a distance, but a completely autonomous car that will drive and navigate itself at speeds as fast as 55 mph; to win, says project manager and Caltech staff member David van Gogh, the car will need to average between 25 and 30 mph. “It’s an historic opportunity,” he says, “similar to the crossing of the Atlantic by Lindbergh.”

That’s because, while autonomous vehicles have driven successfully on paved highways, none has done so off-road, at high speed. The Caltech vehicle, a 1996 Chevrolet Tahoe 4x4 (nicknamed “Bob”), will be equipped with navigational software from the Jet Propulsion Laboratory, NASA’s lead center for robotic exploration of the solar system. That software is used on slow-moving planetary rovers, like the ones currently en route to Mars. It will have to be refined for this race, which is the responsibility of the students, who over the summer are engaged full time in making Bob race-ready for the March 13, 2004, starting gun. The race will leave from an as-yet-undisclosed location somewhere near Los Angeles and follow a course that won’t be announced until two hours before the race begins.

The students, selected last spring, are divided into three teams: computing (hardware and software), sensors, and mechanical infrastructure. Bob’s interior has already been stripped; a batch of computers will be installed in the rear, suspended in air to avoid jolts. A spare gas tank will be installed, and the tires have been filled with a special foam to prevent a dreaded flat. Actuators—mechanical devices for controlling steering, acceleration, and braking—are also being installed; as is vision in the form of stereo cameras, infrared sensors, and lasers that will give Bob a three-dimensional view of the environment. Global positioning software will provide the vehicle with the “picture” of its desktop environment.

It is a demanding race. Bob will have to navigate a variety of rocky, gullied, and other race cars, and must navigate over so-called “whop-de-doos”—washboard-like ruts on a dirt road that any off-road vehicle are challenging for a human to drive over, let alone a computer: The vehicles also have to stay within a designated corridor that will vary in width from tens of feet to possibly miles. There will be no series of checkpoints every car must pass through while en route.

It is a student-run event, with the under-graduates, mostly sophomores, making the decisions. Advice and oversight is provided, however, by experts from both Caltech, JPL, and Northrop-Grumman—“Sanity checks,” says van Gogh.

The fastest team to complete the race in less than 10 hours will win the $1 million prize. (If the Caltech team wins, the money will go to an undergraduate student fund.) DARPA imposed the time constraint to push the limits of existing technologies. The prize will be available through 2007, so if no one wins the first time out, two more races will be available.

The total cost of the Caltech project is estimated to be several hundred thousand dollars; a number of corporate donors have contributed equipment to the Caltech team. DARPA is sponsoring the challenge to encourage innovation in driverless technology, which the Department of Defense believes will be critical to future military endeavors. Because it wants to support creativity, DARPA has placed few restrictions on the type of vehicle, though it expects most will be modifications of existing 4x4s.

The keys will be the software and integrating all these different components to work together,” says van Gogh.

Caltech Admissions Examines Ways to Increase Female Matriculation Rate

Continued from Page 1, Column 2

sent to prospective students to serve as resources, and instant messaging nights, where a chavron could be set up for a question and answer session.

The focus groups decided against publishing a brochure targeted at recruiting prospective women students. “We want to be treated in the same way as prospective male students,” said one student member. Instead, the panel suggested other options: a publication describing the resources available to women students, a publication addressed to parents of prospective women students at Caltech or a publication addressed to parents of prospective women students at the 250 demanding the admissions officer that there will be a so-called “Bob,” lovingly nicknamed “Lindbergh.”

Women Center make girls feel comfortable and wanted, and play a de-

Students are hard at work during a testing of “Bob” at the El Mirage dry lake bed on August 20.

The Women’s Center offers a variety of activities for girls, including surfing lessons. Females say resources such as the Women Center make girls feel comfortable and wanted, and play a fairly large role in encouraging females to come to Caltech.

The California Tech

NEWS

SEPTEMBER 27, 2003

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The advertising deadline is five p.m. Friday; all advertising should be submitted at least three days in advance. No advertising inquiries should be submitted after the advertising deadline.

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THE CALIFORNIA TECH COMMENTARY
SEPTEMBER 27, 2003

Student Government Update: Welcome, Surveys and little’s
By TOM FLETCHER
Welcome Back
I do not mean to be blunt, but there’s a lot of business to cover in this first column of the year. For those of you who are freshmen, I’ve already greeted you at Freshman Orientation. For you upperclassmen, and especially freshmen, I hope your summer was awesome; now, on to more business.

The Two-Minute Rundown on What Happened This Summer
1. Our health insurance has changed. You can read about the new policy here: http://www.chickerling.com/stu_con/ schoolinfo.asp? (policy #812843). If you have any comments or concerns, please direct them to your health committee representatives Esther Lee and Binghai Ling.
2. The first round of Moore-Hofstander proposals ended on September 12. The next round of proposals is due on October 14. The guidelines for submitting proposals are online at http://www.its.caltech.edu/~mhf. During the last round of proposals, ASCIT submitted three proposals, one for a stop comedy event, one for renovating the Coffeehouse (lights, new registers, more DVDs), and one for buying air conditioning units for the houses. We are still waiting to hear back which (if any) of the proposals have been approved.
3. ASCIT is in the hole approximately $3,500 due to paying for the Toteens. We are trying to recoup the expense from contributions, selling copies in the bookstore, and cutting costs on other projects.
4. There is an on-line survey for the entire Caltech community to vote on what you want to see in the proposed Caltech Campus Center. The link is (http://donut.caltech.edu/vote/vote.php?SID=6&survey_id=99). You will receive a 0.33 gift certificate for Bennet Caltech for filling out the survey, and a chance to win truly fabulous prizes!

If you are interested in an interdivisional committee of admissions director and an interdivisional registrar. A search committee is looking for a new admissions committee director; we will soon be asking for volunteers to serve on a new registrar search committee.

Fireside Chat
We are still negotiating with the faculty over last year’s resolution about committee reporting. The faculty will vote on it at the next board meeting June 4, 2003. If you want to read the minutes of the discussion, go to http://www.its.caltech.edu/~mhf/index.html and look for the minutes. The objection raised by a few faculty members revolved around discussing sensitive proposals in a public forum. My committee was the first to discuss sensitive issues while they are still new; now still not too late to move off.

Wanted: Motivated Director of Social Events
Our fearless formal-organizing social director Kim Hiscock is living it up at Duke, which she has accurately described as “hot, easy, and calm.” Interpret as you will. What this indirectly means is that we need a new social director to organize events for the next term and a half. With formal done, the social director’s responsibilities are considerably less than normal (for those of you who are less motivated). Sign-ups will go up soon.

One event that you may have to organize as social director will be the rocking return of the Dabney Lounge last spring and loved playing Caltech so much that they’re trying to find a way back to Los Angeles. (This is a 3,000 mile trip for them). We’re negotiating with them to play in late October.

Where’s my little t’s?
Yes, you are probably curious where your little t’s is. The full story is that due to a snafu at mailing services, advertising solicitations were significantly delayed. This in turn delayed the production of the book. At present, we’ll be on campus October 14th.

You specialize in solving complex issues. So do we.
Currently, IDA is seeking highly qualified individuals with degrees at the doctoral or master’s level in the following:

- Aeronautics
- Anthropology
- Biochemistry & Molecular Biophysics
- Biophysics
- Bioengineering
- Chemical Engineering
- Chemistry

Along with competitive salaries, IDA provides excellent benefits including comprehensive health insurance, paid holidays, 3 weeks vacation and 5 personal days, a 401(k) plan with company match and individual thinking and produces concrete results. Applicants selected will be subject to a security investigation and must meet eligibility requirements of the U.S. government.

IDA will be on campus interviewing qualified candidates on October 14th. For consideration, submit your resume by October 12th through the Career Services Center/MonsterTRAK.

For more information on our specialized opportunities, visit us online at: www.ida.org

We’ll Be On Campus
October 14th

IDA INSTITUTE FOR DEFENSE ANALYSIS
www.ida.org

Bushi’s War in Iraq: What is it Good For? Absolutely Nothing
Responding to 9-11 With Violence Gets Us Nowhere
By XIAO WANG
September 11th, 2001, one of the defining moments in the lives of every American. It’s a moment that every future generation will remember. On the day of the attacks of 9-11, 2001 was marked with patriotism and our, as a country, our resolve to fight terrorism and come together as one American people. For a moment we all forgot our differences and were just Americans.

Now on the second anniversary of 9-11, I can’t help but wonder how we will continue. Will we have a bad feeling that when our children read about this chapter in their history classes 50 years later, they’ll hang their heads in shame at everything we’ve done in response to 9-11.

Two years ago we had so much good faith from the rest of the world, sympathetic to the horrible thing that happened in our soil. The president had so much good faith from the American people, from Congress, who de­ cided to put aside petty partisan bickering so we’d be a people united in the face of adversity. Two years ago I can’t help but feel America is headed in the worst possible direction, that our government, administration, has taken advantage of the good faith of the people to pursue a partisan, unAmerican and immoral agenda.

Let’s summarize America after 9-11: Terror­ ism is now a buzzword. It invokes memo­ rials of the Joe McCarthy era, when “Com­ munist” was synonymous all that was evil and unhygienic in the world. Now in George W’s America, we have an ongoing witch-hunt for “Terrorists” in America, which leads to some despicable actions, like the illegal imprisonment of hundreds of suspected “Terrorists” at Guantanamo Bay. This is due in part to face military tribunals that make a mockery of the notion of due process. Not to mention the massive violations of human rights that went on there. But it’s all ok right? Since those people are “terrorists.”

We went to war in Iraq, bringing in a whole new era of US policy and international policy. In Iraq, we saw a supposed threat to security and liberty of life. We cited Iraq’s arm­ ary of chemical, biological and nuclear weapons. The reason we absolutely HAD to invade it, for the good of all Americans. As Condoleezza Rice put it, “we wish, with whatever gun to be a mushroom cloud.”

By invading Iraq in spite of every American’s wish, we moved from a policy of contain­ ment to a policy of pre­ emption. This policy of pre­ emption assumes that we believe in solid intelligence. However, the very disquiet­ ing thing is the administra­tion has shown a complete disdain for objective analy­ sis of intelligence. Through­ out the President and Congress, I had the feeling that this ad­ ministration was looking for any justification to go to war, that they had already decided on the step that is just plain wrong. The reality is that the war of George W’s Iraq wasn’t a terrorist haven before the war, it is now. Of course, we can’t miss the point that the war is just a cover because of the oil... wait... to make the world safe for America.

It’s funny how the neocons reasoned that the way to make America safer from terror­ ists is to want the United States to invade­ Iraq, supporting Israel, the criminal Ariel Sharon and his government’s policy of state­ sponsored assassination and terror campaign against Palestinians, one-sided berating of Hamas when Palestinians carries its horrible consequences. We want to go to war with our own people, but let’s just engage with the war we have with Saddam and Osama join­ ing with Iran, China, Russia and any other country in the world. How, we can say, have we not gone just to war with Israel as we are with Palestine, since both sides are equally responsible for the cycle of violence and war. We have the enemy of both sides? Maybe if we did that in the first place, 9-11 wouldn’t have happened. Keep going down this path, and I’m truly afraid about what history will say about America in the post-9-11 world.

I hope next year American will come to its senses about the world, and see it from a truly global, objective perspective. We can’t look at the world through our Red White and Blue colored goggles.... this is a multilateral world, and nations actually do exist and their opin­ ions matter, contrary to what this adminis­ tration would like us to believe. America truly accept and work with this world, we need to get rid of Bush and the rest of his necon White House. Here’s to Dean, Kerry, or any­ one else looking to replace George W. In 2004, after all, our history has not been with­ out its share of lessons; that’s why it’s still too late to go off the self-destructive course we’re on.

Continued on Page 10, Column 4
Welcome to Rotation! A Message From the IHC

By JEREMY PITTS

Welcome to Caltech! You may be a bit overwhelmed by now with all of the information that has been thrown at you since you arrived. That is why I would like to take this opportunity to summarize the information that we presented to you at frosh camp concerning Rotation.

Many upperclassmen will agree that Rotation is the most important activity you will do here during your first week. Please refer to the schedule in this paper to find out which House you are taking each of your meals in. For lunch, show up to the House that you are assigned to at noon and be prepared to wait in line and be served cafeteria style. Dinners are served and served family style. Each House has dinner at a slightly different time, however, you should show up to dinner a half an hour early as each House will be holding a brief reception before dinner. After dinner, the House will also have receptions in which you should try to meet the upperclassmen in that House and get as good of feel for a House as possible.

At every one of your meals, both lunch and dinner, there will be a nametag waiting for you. You must pick up your nametag. We keep track of who does not show up for a meal by the nametags that were not picked up. If, for some special circumstances, you must miss a meal, please attempt to talk to either the president of the House whose meal you are missing or the RA before you miss the meal. Missing any meal without an acceptable reason may result in you being considered to have rated all of the Houses equally.

By the end of the week, you will be sick and tired of shaking hands and small talk, but sick with it. Give all of the Houses an equal chance. On Saturday, you will each have lunch in the House that you are living in. After this meal, the House's RA will make available to you a rating sheet (sample sheet included on this page). Between 2 and 4 p.m., the RA will be available in a place made known to you. You must go to the RA during this time and give him or her your rating sheet. At that time, the RA will input your ratings and show them to you to confirm that they are correct.

The next thing that will happen for you will occur on Sunday at 5 p.m. The cannon will fire and then, if you so choose, you can run to your first-choice House. Each House will have some sort of initiation set up that you can go through. This process will let you know whether or not you got into that House. If, after going through the initiation process at your first choice House and discovering that you did not get in, there will be someone standing by to tell you which House you did get into. You can also choose to not find out which way and, instead, to go to your second-choice House and try again.

If you would rather not participate in the initiations, a list of House assignments will be posted on the Olive Walk at 5:30 p.m. The initiations are not something to be afraid of; they are merely good-spirited traditions of the Houses. Hazing is a very serious issue which is not tolerated. If at anytime you feel uncomfortable with what is happening, just say "STOP!" and everyone will listen.

The Wednesday after Rotation week will be moving day, at which time you will all move from the temporary assignments in which you are currently living in your permanent House. In some Houses, you will move directly into your permanent room; in others, you will have a second temporary room for a few days to give you a chance to meet the other residents of the House and choose a roommate. Just remember that the House that you are in will affect your entire time here at Caltech.

That said, you should try your hardest to get a good impression of each House and submit your unbiased ratings. You probably shouldn’t completely blow off your Ch 1 G, but just remember that it is not the most important thing that will happen this week. Above all else though, try to have fun. I look forward to meeting you all.

A Note From Dining Services:

Rotation meals begin with dinner on Sunday September 28th and finish with lunch on Saturday October 4th. All meals will be waited family-style. Guests are welcome and encouraged, however each guest must be paid for. During the week, lunches will be served cafeteria-style in both North and South Kitchens. Students who are on-Board do not need to swipe their cards for lunch or dinner (but may swipe for a guest). During Rotation Week, on-Board students will not have access to declining funds. Per IHC, Board Students will be eating in their House with the incoming Frosh. Declining funds will be available Monday, October 6th. The North and South Kitchens will return to their regular hours of operation and function on Monday, October 6th; the North will be running Open Kitchen only and the South Kitchen will be open for a la carte lunch.

Dinner Times

Please show up to all dinner 30 minutes early to attend a pre-dinner reception.

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**Note: On Friday, dinner starts half an hour early.**

Saturday Lunch Times

Pre-meal receptions will also be held for the Saturday lunches.

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Please circle the rating appropriate for each House. Remember that you must go to the RA of the House you are rotating out of with this sheet completed between 2 PM and 4 PM on Saturday October 4.

Love Like Okay

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Rotation Rules 2003

(Interpretation in italics)

I. Preamble
The Rotation system has evolved over the years as the best method to distribute new students among the Houses. Each new student is given a voice in selecting the House he or she will join, and the House has some say in choosing its members. The motivation behind these rules is the House System. The intention is to prevent both the Houses and the new students from taking unfair advantage of any other House or new student. All undergraduates are responsible for understanding and following these rules, and just as with the Code, ignorance is not an acceptable excuse for violating them. Keep in mind that the spirit of the rules is at least as important as the letter of the rules, and the IHC reserves the right to interpret the spirit of the rules as necessary.

II. Procedures
1. Rotation week begins on the Sunday prior to the first week of the term and ends with the following Saturday.
2. Throughout the course of Rotation week, new students will remain in residence at a randomly determined House or New House (as stipulated at 5:00 pm on Saturday of Rotation week) and submit ratings to the Resident Associate (RA) of the House in which they are residing. This information will be given to each House President and shall be made available, only with the RA's consent, after all changes are finalized. The Houses are not required to follow the ratings submitted by each student, except that no House may choose a student that another House has rated a House (not specific numerical information) may also be disclosed to other House members when necessary.
3. On the Saturday of Rotation week, the R.A. of each House will provide rating sheets to all of the new students dining at their House that day. From 2 to 4 PM, the R.A. will be available at a place made known to the new students. During that time, the new students must give their ratings to the R.A. of the House in which they are residing, and then confirm these ratings at the R.A. of the House which they visit on Saturday of Rotation week. Students may be picked by any one of the Houses if they do not submit a House preference list. In exceptional circumstances, new students who participate in the DoCo for whom the Spirit of the Rules is the most important.
4. All new students must choose at least four of the seven Houses which they would prefer to join and submit a list of those preferences to the Resident Associate (R.A.) of the House in which they are residing. This information will be given to each House President and shall be made available, only with the R.A.'s consent, after all changes are finalized. The Houses are not required to follow the ratings submitted by each student, except that no House may choose a student that another House has rated a House (not specific numerical information) may also be disclosed to other House members when necessary.
5. At the end of Rotation week, the R.A.'s of each House will provide a list of those students who have not given their ratings to the R.A. of the House in which they are residing, and then confirm these ratings at the R.A. of the House which they visit on Saturday of Rotation week. Students may be picked by any one of the Houses if they did not submit a House preference list. In exceptional circumstances, new students who participate in the DoCo for whom the Spirit of the Rules is the most important.
6. Selection of new students will take place at a closed meeting of the Interhouse Committee Chairpersons. New students will be picked, up to four from Rotation chairs from each House, the Director of Campus Life, the Senior Administrator for Campus Life Programs, and the Master of Student Houses. The R.A.'s may attend the meeting as guests of the Director of Campus Life. This meeting will occur on the Sunday immediately following Rotation week. All information related to this meeting will not be made public. All such information in electronic or written form must be destroyed immediately following the meeting.

III. Regulations
1. Rotation rules are in effect for any contact with new students from their initial acceptance (as stipulated at 5:00 pm on Sunday of Rotation week). These rules are in effect now and will be until October 4th, 5pm.
2. Throughout the rules the term “House” refers to both the organization as a whole and any of its members.
3. People who could be construed as representing the House:
   a. full undergraduate students who are currently registered as undergraduates
   b. full house guests
   c. full house guests who are currently registered as undergraduates
   d. full house guests who are currently registered as undergraduates
4. Social members who are not currently registered as undergraduates, but plan on coming back
5. Alumni and former students
6. Unaffiliated students
7. RAs
8. Others (grad students, friends of students, non-Caltech affiliated people who hang around)
9. House members who are not currently registered as undergraduates, but plan on coming back
10. Alumni and former students
11. Unaffiliated students
12. RAs

This rule is intentionally left vague with respect to social members, etc. because House/a is used in different places throughout the document. Consider the case of those people falling under categories (2-3) who hang around in the House, but who are not present during dinner or after-dinner-reception, but who actually want to leave (Security will remove them instead), but the House will not be held responsible. This situation will have to be dealt with on a case-by-case basis because these people could still cause an unfair bias.

1. New students are specifically prohibited from unfairly biasing other new students toward or against a House.
2. Houses are specifically authorized to do the following during Rotation:
   a. have receptions after dinner
   b. serve refreshments and exceptions
   c. prohibit those who are not full House members from attending these receptions without the prior permission of the House President.
3. Member of a House is defined as a full dues paying currently registered undergraduate. Anyone who does not fall under this definition of Member must get explicit approval from the House President. If a House President approves someone, the House is responsible for that person's actions.
4. d. have open presentations anywhere on campus
   This includes unofficial tours of campus such as tours of the steam tunnels. Pranks that don't de-
   grade other Houses are also acceptable.
   e. publish and distribute informational literature which is inexpensively reproduced
5. This refers to posters, literary journals, Rotation videos, and propaganda sheets among other things.
6. All such documents must be approved by the IHC.
7. Students may accompany or transport new students to any place open to the public, if no transport services are provided, as long as the trip does not last longer than four hours, and as long as the excursions remain within the spirit of the Rotation Rules (the restrictions on Houses organizing social events and students providing extra services).
8. Longer trips will require approval of the IHC.
9. Please note that this rule applies to new students who are not on the pre-rotation check-in day, although athletic and scheduled FSL events are still exceptions to the rule. The purpose of this rule is to allow flexibility for reasonable, spontaneous events that involve food, movies, or fun. Rotating the spirit of the Rotation Rules will disallow new trips to become routes for recruiting freshmen for any House.

5. Houses are specifically prohibited from doing the following during Rotation:
   a. making a trophy or alley challenge
   b. publishing a social calendar or relating in any fashion future social events, except during prefrash weekend.
   c. organizing and sponsoring a social event
   d. attending a reception of a House of which you are not a full member without the permission of that House's President
   e. discussing with new students anything at all to do with rating strategies and past or future new
   students that it is not in the IHC's interest to make public.
   f. providing alcohol or other controlled substance to a new student
   g. spending money on a new student or providing extraordinary goods or services on credit or
   h. otherwise unfairly biasing a new student toward or against a House.

This rule is completely open to interpretation by the IHC. This one again refers to the idea of the spirit of the rule. Individuals are not prohibited from speaking about a House of which they are not a member, but House/a is strongly encouraged not to talk about it in any House.

11. House visits will occur on the Sunday immediately following Rotation week. All information related to this meeting will not be made public. All such information in electronic or written form must be destroyed immediately following the meeting.

12. It is important that a new student get as much information as possible in order to make the
   choices. New students must be given some credit for discerning a highly biased positive or
   negative opinion.
13. One should follow these guidelines when speaking about any of the seven undergraduate Houses:
   a. do not provide any specific numerical information.
   b. publishing a social calendar or relating in any fashion future social events, except during prefrash weekend.
   c. make a decision in which you are not a full member without the permission of that House's President
   d. attending a reception of a House of which you are not a full member without the permission of that House's President
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The IHC Committee

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No More Excuses to Stay
In: A Local Transit Guide
Getting Around Your Car

BY AMEREA CHOWDRIY

The Metro Gold line, starting from Sierra Madre Villa, and ending at Union Station in downtown LA provides versatile and cheap transportation for the Caltech student.

The Metro Gold line, running from Sierra Madre Villa to Los Angeles Union Station, is a light rail service that connects Caltech to downtown Los Angeles and other major transit hubs in the region.

The Gold line is one of the most convenient ways to travel between Caltech and downtown LA. The Gold line runs from Sierra Madre Villa, through Pasadena, Glendale, Los Angeles, to Union Station.

Getting to the Gold Line

The Gold line provides service from Pasadena to Union Station in downtown LA, where you have a variety of transit options including Amtrak, Metrolink, and the Metro Red line. Popular destinations along the Gold line are South Pasadena's Mission Station, Chinatown, and Union Station. The closest Gold line stations to Caltech are Allen (3.5 mi), Lake (1.5 mi), Lake Mar (1.75 mi), Del Mar (2.5 mi), and Memorial Park (2.3 mi).

To travel to Union Station by Gold line, you can take the Gold line from Sierra Madre Villa to Union Station. The Gold line runs from 4 a.m. to 1 a.m. and comes every 10 to 20 minutes.

Bicycles are the most convenient mode of travel between the Gold line and Caltech, especially at night and on weekends when public transportation is less frequent. Bikemetro.com can map a bike route between Caltech and any Gold line station. Inverted U bike racks will be available at all the Gold line stations. If you're uncomfortable with bike racks and travelling to downtown LA, you can mail you an application or you can carry a bike on the last car. For more information, see the Riding Metro section of MTA's website.

Getting home from campus

If you don’t use public transit frequently, you may not be aware of how to best use it. The biggest times losses occur when waiting for a connection, especially if you miss the previous one. Consequently, try to rely on Metro Rail and Metro Rapid buses, which come as often as every 5 to 10 minutes. If you have to take more than one bus, pay attention to the times, as each bus has a different schedule. After that you’ll have to pay full fare.

How to Avoid Waiting

Although MTA’s Trip Planner can pick up for you, your destination, it may not be the best use of your time. The biggest times losses occur when waiting for a connection, especially if you miss the previous one. Consequently, try to rely on Metro Rail and Metro Rapid buses, which come as often as every 5 to 10 minutes during peak hours. Metro Rapid lines (2) are covered by traffic congestion, and Metro Rapid buses are especially Griffith Community College which connects students to Griffith Park, Los Angeles, and other areas.

The best bus routes to take between Caltech and the Gold line are on weekends nights as MTA’s A11 from Mission Park, MTA’s A12 from Del Mar or Allen, and MTA’s A45 from Del Mar, which comes as often as every 20 minutes.

Information and schedules can be found on the MTA website. You can also check to see if your destination is near a Metro Rail or Metro Rapid stop by consulting the MTA System Map, which you can find on the MTA website or at the Caltech Student Center in Union Station.

The system map can be downloaded from the Riding Metro section of MTA’s website. You can also check to see if your destination is near a Metro Rail or Metro Rapid stop by consulting the MTA System Map, which you can find on the MTA website or at the Caltech Student Center in Union Station.
Aero Association of Caltech (Caltech Flying Club). Want to learn to fly? AAClT offers aircraft rental and flight instruction, and organizes flyouts and flying related activities. Join in on Sunday, September 28th from 1-6 PM at the El Monte Airport for the Annual AAClT BBQ. Meet our flight instructors, enjoy FREE introductory flights to scenic spots in LA (for CIT students), view our fleet of seven aircraft, and enjoy some great food. Rides to/from the airport are available. For more information visit our web page www.itc.caltech.edu/aacit or contact Eric Fechter at fechter@its.caltech.edu.

The Seminar on Science, Ethics, and Public Policy (SEPP) has been renamed: Caltech Humanities presents Seminar on History and Philosophy of Science (HPS).

7 October 2003 (8:00 pm Beckman Institute Auditorium): Brenda Maddox, "Rosalind Franklin: The Dark Lady of DNA" co-sponsored by the Caltech Women's Center, President's Office, Caltech Public Events, Office of the Faculty, Biology Division, History and Philosophy of Science Program, Caltech Bookstore. Contact Caltech Ticket Office 626-395-4653 or 626-395-8888.

7 October 2003 (4:00 pm 25 Baxter): Michael Ashb (USC), "From Monkey-like Action Recognition to Human Language: An Evolutionary Framework for Neurolinguistics" Please note the following Munro seminars as well: 17 October 2003 (4:00 pm 25 Baxter); Jonathan Israel (Institute for Advanced Study, Princeton), "The Radical Enlightenment" 7 November 2003 (4:00 pm 25 Baxter); Gideon Yaffe (USC), "The Government Beguiled Me, and I Did Eat!: Responsibility and the Entrapment Defense" Seminars on the Caltech campus are open to the community at no charge. For information, contact Moli Feingold at 626-395-8666 or feingold@lux.caltech.edu.

The California Tech is looking for an undergrad to serve as our computer administrator. This person should be familiar with both Macintosh and PC systems, who would be able to keep our computers up to date, install software as needed and assist with the tech website.

The Caltech Women's Center is located at 265 Center for Student Services. Our mission is to promote the advancement of women in science and engineering. The Women's Center works to support the central research and educational mission of Caltech, while providing students, postdoctoral scholars, staff, and faculty—women and men—with opportunities, programs, and services that address gender issues and promote success, equity, and safety. Some of our programs include Academic and Professional Development; JUMP, the JPL Undergraduate Mentoring Program; Women Mentoring Women; Technical Tours Series; and Seminars and Workshops. Coming up on September 30 is the Graduate Women's Discussion Group. October 7, we will host "Rosalind Franklin: The Dark Lady of DNA." Lecture and Book Signing with author Brenda Maddox. For a full list of programs and services, visit our webpage at www.womenscenter.caltech.edu.

Interested in The California Tech?
We're interested in you! Reporters, Photographers, Copyeditors, Layout Artists... Wanted! Come to an informational meeting Tuesday, September 30th 11 p.m. SAC 40.
Message from the Dean: Hello Frosh
On Quarks, Quirkiness, Procrastination and Fries?

By JEAN-PAUL REVEL

...and once more...welcome to Caltech in beautiful Pasadena. At least that is how our city was described in early Caltech catalogs (vintage circa 1910) as "not only one of the most beautiful cities, with a climate of unapproached equlibrium and healthfulness, but also noted for the morality, refinement, and culture of its citizens. Being purely a residential town, 10 miles from the factories and marts of Los Angeles, it is surrounded by safeguards and privileges that fit it for the guardianship of youth. Saloons are prohibited by charter. Boys under age are shut out by statute from questionable places of amusement, of which there are few... Pasadena...has frequently been called 'the most beautiful city in the world.'

Well now you know. Things have changed a bit and luckily not all of the things that were said about the city of roses in the early XX century are still appropriate 93 years later, but this is still a great place to live and to study.

Seen from another point of view, Pasadenaans can be proud to have you in their midst, you creme de la creme of the country's, nay, maybe the world's, frosh. You'll excite me if I use the French spelling of "creme", but I feel empowered now that Rep. Shelly, Jackson Lee (D, Tx) has urged Congress to reverse "the most beautiful city in the world.’"

Continued from Page 1, Column 2

SEPTEMBER 27, 2003

A Fireside Rap
From Fletcher

Continued from Page 3, Column 2

The little l is on route to the printers, where it will take between 20 and 25 days to print. We are sorry for this delay, but please don't kill those wacky Mumh kids because they did a good job of making the little l's content and it's not their fault. In the meantime, if you're a frosh and you need to use a little l, talk to an upperclassman.

Moment of Zen

For all the upperclassmen that did not get to go to Caltech, I have rapped the closing paragraph of my welcome speech to the freshmen. Ask a freshman to see if it actually happened.

Peace out Caltech, Tom Fletcher

PS: Frosh, remember to meet awesome upperclassmen during rotation. If you only meet one, don't meet me...I'm boring and weird. Meet Brandon Ballara, affectionately B-Balla. He is the finest example to consider dropping the embargo with Cuba.

The night ended with a rousing party and dance where the freshmen took to the dance floor to get their groove on.

During camp, Dean of Students Jean-Paul Revel commented, "It's been nice, a little hot and dry, and people get thirsty, but it's been nice. The Honor Code talk was well put, the Ropes Course was fun, and Challenges and Choices did a good job. We [the administrators] have already identified all the troublemakers! Just kidding!!!"

The following day, Caltech and the new students bid goodbye to Astracamp as they came back to campus, armed with advice, warnings and bunches of new friends to start the school year.
Gray Davis Responsible for Low Quality of This Summer's Movies

By LIBIN ZHANG

Bill O'Reilly and Rush Limbaugh, plus the support of Michael Eisner, Rupert Murdoch and other media members, have convinced me that current California Governor Gray Davis is to blame for most of our society's ills. Darrell Issa has selfishly spent $1.7 million of his own money so that we the people can choose a new scapegoat in public office.

Examples of Gray Davis's negligence and incompetence are numerous. He has allowed California's budgetary situation to disintegrate. With the loss of state revenue from capital gains due to the economic recession, the state faced a budget deficit of approximately $33 billion. To get an idea how large that number is, doubling the budget deficit results in almost enough money to pay for the occupation of Iraq this year.

Adding insult to injury, Gray Davis has consistently and stubbornly opposed the use of tax cuts to boost state revenue. In fact, he prefers to use massive tax increases and cuts in public safety and education to balance the state budget. He has proposed a tax on Internet commerce companies with a retail outlet in California. Little mention of new taxes was made before the last Election Day. I do not remember the last time an elected public official raised taxes after using a campaign promise like, "Read My Lips: No New Taxes." Gray also sat idly by as Republicans deregulated of the California power industry; A subsequent California energy crisis has raised the utility bills of California residents.

However, Gray Davis's most grievous crime has been overlooked by the Liberal Media. Over the past few years, during Gray Davis's governorship, the quality of American summer movies have sunk to a new low. Some of us still fondly remember the good-old-days of Governor Pete Wilson, when movies were all critically acclaimed and we almost kept the [immigrants] out. This past summer has been especially uninspiring. Besides the usual crop of forgettable sequels (Legally Blonde 2, Bad Boys 2, American Wedding, Charlie's Angels 2, and so on), I would like to single out four comedies made by the Liberal Hollywood establishment that demonstrate Davis's remarkable incompetence in movie making. These four movies have the distinction of being on imdb.com's worst 100 movies list. 1. Gigli, a romantic comedy starring Ben Affleck and Jennifer Lopez. In the second week after release, Gigli grossed $600,000 in two thousand theaters, which translates to roughly three customers present per screening. From Justin to Kelly, a romantic comedy starring two American Idols. This movie was released on video barely two months after its theatrical release. 3. KangarooJack. Produced by Jerry Bruckheimer, who also produced Black Hawk Down, Gone in Sixty Seconds, Coyote Ugly, The Rock, and Beverly Hills Cop. 4. Dumb and Dumberer: When Harry Met Lloyd, the eagerly anticipated sequel to the original Farrelly Brothers comedy.

The quality of the aforementioned movies should be obvious. The fact that such movies were produced during Gray Davis's tenure is one of his graver crimes against humanity. Furthermore, the movie Dumb and Dumberer had a production assistant by the name of Shawn M. Gray. Coincidence? I think not.

Thankfully, we have an experienced and accomplished actor on the list of candidates to replace Gray Davis. Not only is Arnold Schwarzenegger married to the Kennedy family, he has great name recognition and supports most forms of abortion, gun control, and immigration. The other candidates are inspiring as well; gubernatorial candidate Georgy Russell sells her own line of "Georgy for Gov" thongs, and at least one candidate has been convicted of drug offenses.

Of course, there are those who are opposed against the recall election and spew typical liberal nonsense: 'We are opposed to the recall of any elected official who has not committed acts of corruption or malfeasance, and is not physically or mentally incapacitated in any way which would preclude him from serving out his term of office.' [RepublicansAgainstTheRecall.com]

Need anyone be reminded that Clinton got a blowjob in office and lied about it? UPDATE: Issa has recently suggested that if both Schwarzenegger and McClintock remain on the ballot and split the Republican vote, Issa would rather vote "no" on the recall than let Lt. Governor Cruz Bustamante be governor. I think the idea was that Davis was incompetent and could not do the job. Does Issa merely want his own party in office? I am absolutely shocked that American politicians have taken such a partisan tone.

Remember the last time an ethnic Austrian took control of a major American city? No? Well, during Gray Davis's tenure is one of his graver crimes against humanity. Furthermore, the movie Dumb and Dumberer had a production assistant by the name of Shawn M. Gray. Coincidence? I think not.

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SIRTF Returns Striking Test Images

By JANE PLATT
Nasa's Space Infrared Telescope Facility has succeeded in testing two of its onboard instruments and captured some preliminary star-studded images. The space observatory was launched from Cape Canaveral, Fla., on Aug. 25. The images were taken as part of an operational test of the infrared array camera. It will take about a month to fully focus and fine-tune the telescope and cool it to optimal operating temperature, so these early images will not be as sharp or polished as future pictures.

"We're extremely pleased, because these first images have exceeded our expectations," said Dr. Michael Werner, the Space Infrared Telescope Facility project scientist at NASAs Jet Propulsion Laboratory, Pasadena, Calif. "We can't wait to see the images and spectra we'll get once the telescope is cooled down and instruments are working at full capacity."

The most striking image is available on the Internet at the following websites:
http://sirtf.caltech.edu/newsrelease/nr-4318.html
http://pdsjournal.pi.net.nasa.gov/
montage/P5456724.html
http://www.nasa.gov/mission/roduction/starlight/sirtf_all.html

The telescope's dust cover was ejected on Aug. 29, and its aperture opened on Aug. 30. The spacecraft—now fully operational, and all systems are operating nominally. The team is very pleased with the performance of the telescope and all of its onboard systems, which were switched on for the first time in a mission's two-month in-orbit checkout, which will be followed by a one-month science verification phase. After that, the science mission will begin a quest to study galaxies, stars and other celestial objects, and to look for possible planetary construction zones in dusty discs around other stars.


"For more information about NASA on the Internet, visit NASA's PDS Project,
http://pds.jpl.nasa.gov/pds.html

Creating a Convocation Tradition

Continued from Page 1, Column 5

looks like. According to the Nobel laureate, three things are evident in everyone at Caltech: initiative, a quantitative mind, and most importantly, a passion for science, math, and technology. Passion, proclaimed Dr. Baltimore, is what keeps you going during those problematic sets and labs. He closed out his remarks adding that he "wishes he and you benefit from your time here.

Prevent Steven Kooin followed President Baltimore with his speech on "Integrity in Science." In science, declared Dr. Kooin, there is right and wrong. Things either work, or they don't. What's more, he added, is the cooperation required and trustworthiness essential to the success of science. He encouraged integrity saying, "We scientists don't fudge because science won't work if we do." One of the great things about science, according to Dr. Kooin, is the default assumption that everyone is acting with integrity.

In an earlier interview, Dean Barbara Green, expressed delight that everyone agreed to speak at the Convocation, saying it reflected that everyone shares the value in welcoming people to Caltech. Perhaps the main aim of the ceremony is to help people feel like part of a community by helping them to appreciate Caltech. To facilitate this appreciation, plants were made to highlight Caltech's culture and personality. Additionally, introductions would be made of the Deans, the Mosk, Division Chairs, student leaders, and the Chair of the Faculty.

The keynote address was given by Drs. David and Judith Goodstein, titled "The Caltech Culture and Its Origins." Speaking first, Dr. Judith Goodstein outlined Caltech's early history and some of the key figures in Caltech's development in the pre-World War II era. Outlining the efforts of Robert Millikan, Arthur Noyes, and George Hale. Dr. Goodstein traced Caltech's transformation from the little known Throop University to an academic powerhouse called Caltech. She finished her portion of the presentation with a fabulous movie produced by the Digital Media Center showing images of Caltech from the archive and tracing its changes.

Dr. David Goodstein then spoke about Caltech's changes since World War II into our Caltech of today, namely following the efforts of Lee Dubridge and of famed Caltech professor Richard Feynman. Both Drs. Goodstein related the careers of Caltech legends such as Linus Pauling, Thomas Hunt Morgan, and Carl Rich and the accomplishments of the students.

"Another important element of our program is 'community building,' where we structure a family atmosphere and support network to ensure academic and professional success," Jones continued. "We establish a system that students can stay with another after the program concludes, and we maintain contact with them after the program. We will even assist them with the college application process and with other pertinent college information.

Although the program was intense, the students did get a dash of fun in their rigorous schedules. At the culmination of the program, one of the weekend highlights was the boat races. Applying the recently learned laws of physics and engineering, and a bit of creativity and inventiveness, teams built their own boats using only cardboard and duct tape. The boats had to transport one of their team members across a pool.

Caltech's assistant director for educational programs and coordinator of the YESS program, Milton Mitchell, Jr., commented, "While most teams in previous years barely made it past the pool's starting blocks, this year three out of the five teams were able to travel the full length of the pool without sinking their makeshift boats - or accidents!"

The California Tech Caltech 40-58 Pasadena, CA 91126

High School Students Say "YESS" to Summer Research

By DEBORAH WILLIAMS-HEDGES
PASADENA, Calif. - Some of the brightest high school students in the country recently attended the California Institute of Technology's Young Engineering and Science Scholars (YESS) program. Caltech's YESS program brought together 24 students who excel in math, physics, biology, engineering, and exposed them to advanced scientific research and the methodology of the science professional.

These students are juniors and seniors in high school who have demonstrated a high aptitude in math, engineering, and the sciences. Most of the students have already begun their studies in calculus, physics, biology, engineering, and computer science.

Admission to the YESS program is competitive; the students were selected from over 100 applicants across the United States. The grade point average of the students was 3.93. The YESS students participated in interdisciplinary scientific study during the intensive three-week program, which covered molecular biology, neuroscience, engineering design, applied physics, and art technology.

To encourage the pursuit of professional careers in science and engineering, the program exposes the participants to entrepreneurial exploration, technology transfer, and graduate school opportunities.

"Another important element of our program is 'community building,' where we structure a family atmosphere and support network to ensure academic and professional success," Jones continued. "We establish a system that students can stay in touch with one another after the program concludes, and we maintain contact with them after the program. We will even assist them with the college application process and with other pertinent college information.

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