A Family of Explorer's Telescope and the Mars Global Surveyor combine into the rowing figure of a space explorer. "Our goal was to try to represent as many of the missions that have been flying this year [and] represent the work of as many of our employees as we could fit on," O'Toole said. The float, at a height of 50 feet and width of 18 feet, will be covered in a colorful array of plants and flowers. Static, carna­ petal, silver leaf, eucalyptus leaf, onion seed, sesame seed and crushed rice will make up the spacecraft, while roses, orchids and gladiolus will cover the base of the float. Fresh flowers and petal will represent the flames from the explorer's rocket. In addition to colorful pre­ sentation, the float will also be an­i­mated. The explorer's head will...
Float Passes Function Test, Moved To Permanent Site for Decorating

Continued from Page 1, Column 5

Ever since the project was first brought up in February, excitement and interest surrounding the float has been high, according to O’Toole. A “float day” at JPL in September introduced the design. “We served root beer floats and showed the design to our employees and everyone had a good time,” O’Toole said. “That was a good first exposure.” Since then, construction on the float has been extensive; only the decoration is yet to be done.

A recent safety and function test also brought more excitement to the float. The test, on November 10, was open to all those interested, according to Campus Life Assistant Float Committee. The undecorated float was tested for its ability to stand up properly, spend evacuation time and other functional aspects, according to O’Toole. “It all worked fine,” he said and everyone had a good experience, O’Toole predicted. “You spend all this time and it’s still going to wow you when you see it,” he said.

Dr. Richard O’Toole is heading the organization committee for the float.

Fleming Glides to Victory During Interhouse Swimming and Diving

Men’s backstroke racers kick towards the finish during the Thursday finals of the Interhouse swimming meet.
Women's Basketball Breaks 41 Game Losing Streak, Swim Begins Season

By MIKE RUPP
Caltech Sports Information
Weekly Roundup
November 29, 2004

Basketball

Athlete of the Week: Women's Basketball's Lindsay King

The Freshman Forward from Bedford, New Hampshire repeat­ed as Caltech Athlete of the Week as she averaged 13.5 points, 8.0 rebounds and two assists at the 2004 Caltech Women's Basketball Thanksgiving Tournament this past weekend. King helped the team to its first win in 41 games. The 53-44 triumph over South­western College on Saturday led to a third place finish for Caltech.

Swimming & Diving opens season with split against Whittier

The Swimming & Diving program opened its season last Tues­day against Whittier College. The Men's team triumphed over the Whittiers opponents with a score of 170-43. The team domi­nated with wins by Sophomore Daniel Oliver in the 50 and 100 yard Freestyle, Freshman Tim Curran in the 200 yard Freestyle and 100 yard Backstroke, and Senior Jason Lee in the 100 yard Butterfly. All three were also members of the winning 200 yard

Free Relay. The Women's Team lost a nail­biting to Whittier, 108-114. Victories in the Three Met­er and One Meter Diving events by Sophomore Eason, in the 100 yard Freestyle by Senior captain Beth Dorman and the 100 yard Backstroke by Lisa Seeman kept Caltech in conten­tion until the very end. The team will swim next this Friday-Saturday at the Mudd-Scripps In­vitational.

Men's Basketball beats Life Christian; loses to West Coast Baptist

The Caltech Men's Basketball team opened its season with a thrilling 51-49 win over Life Pa­ther College. The win snapped a 47-game losing streak as Caltech held on for a one-point victory. Freshman Bryan Hires had 10 points.

The team took its first loss of the season on Saturday night against West Coast Baptist, los­ing 67-66. Junior Jordan Carlson and Drake are tied for the team's lead in average scor­ring with a 13.5 average despite missing all but 16 minutes of the Southwestern game with an injury. Freshman Rene Davis averaged 10.5 points and 3.0 rebounds with seven as­sists and six steals. Junior Shelby Montague averaged 5.5 rebounds and three steals.

The program's last win dates back to January 8th, 2003 and was also against Southwestern College.

Women's Basketball plays next Wednesday night at Chap­man University. Their next home game is Saturday, December 4th at home against La Sierra Uni­versity. The game begins at 7:30 PM.

Women's Basketball hosts Thanksgiving Tournament; claims 3rd place

Freshman Lindsay King wins her second Ath­lete of the Week honor for her stellar performance in helping her basketball team to victory against Southwestern College.

Caltech's Women's Basketball team snapped a 41 game losing streak at their 2004 Thanksgiving Tournament this past weekend. The team defeated Southwestern College by a score of 53-44 in the Tournament's Consolation game on Saturday.

The win came after Friday night's 38-75 loss to Emerson College in the opening round. Emerson eventually made it to the Championship Game where they lost to Simpson University by just five points.

In addition to Freshman Lindsay King repeating as Caltech Athlete of the Week, several players had standout performances. Fresh­man Jessica Roberts tied for the team lead in scoring with a 13.5 average despite missing all but 16 minutes of the Southwestern game with an injury. Freshman Rene Davis averaged 10.5 points and 3.0 rebounds with seven as­sists and six steals. Junior Shelby Montague averaged 5.5 rebounds and three steals.

The program's last win dates back to January 8th, 2003 and was also against Southwestern College.

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Religious Freedom According to the ACLU

By SIMON QUE

It's Christmasmastime again. That means you can expect certain greetings in the mail from the American Civil Liberties Union to launch another round of attacks on government against public religious displays. One of the latest was a case brought by the ACLU against the Cranston, Rhode Island, for allowing privately owned Christmas displays on city property. And that's not the only thing the ACLU is fighting against. They're also fighting against any religious beliefs, they define it as anything and everything, the meaning of freedom and liberty, that doesn't make non-English speakers feel comfortable. It is unreasonable to expect the government to free non-English speakers. It is unreasonable to expect the government to feel comfortable with religious beliefs. Some people are less comfortable with religious beliefs; others are not. To expect the government to have to keep down personal religious expression for fear of offending someone is asking for too much. Individuals are free to ignore it, and free to continue working to ensure others feel like second-class citizens?

The ACLU states on its website (www.aclu.org) that it is interested in protecting the First Amendment. "The ACLU's mission is to protect and defend the civil liberties of all Americans. The First Amendment guarantees the right to practice religion freely, to express religious belief in public or private, to worship or not to worship, to be an adherent to a religious church or sect, or to be an atheist. Whatever an individual may believe or feel is protected by the First Amendment."

The ACLU also uses the phrase "separation of church and state." The phrase is found nowhere in the Constitution. While the phrase is often misused, it is not easy to explain how the ACLU uses the phrase to justify their stance. Freedom of religion means one can choose what religion they want to follow and, of course, they may be free to ignore it. This is freedom of religion. Freedom means one can choose what religion they want to follow and, of course, they may be free to ignore it. The phrase is used by groups such as the ACLU and its ideological cousin groups to describe something that is not religious in nature.

"Freedom means an individual can choose to do something without threat of force from the state or other individuals. It doesn't mean they have to be protected from all emotional and psychological discomfort that comes withnessing someone else's religious expression." -- From the Guru of Advice

The Christmas season is getting here (or has gotten here, depending on how much your perception is decided by commercialism) and many people I know have already started asking me: "Hamil Tony, I need a gift for my friend or loved one, but I don't know what to get them. What should I do?" I usually suggest waiting til just after Chanukah, but before Christmas, and converting to Judaism. But, I've decided to share with everyone my suggestions for actual gifts to give people you may or may not like during the holiday season.

For the cheap people out there (if you have any) I suggest giving away a gift too, not to offend anyone but to avoid spending any cash, and just give someone a homemade present. These are great, because they're free for you, and are, meaningful, because of the thought. Or something like that. I'd recommend things such as burning a CD with music you've legally acquired without using some sort of pirating software, making a gift of souvenirs you don't want anymore, or writing a poem or story. I've found many interesting things, and the person receiving the gift will never find out. Other free things you can give are a gift card for a restaurant with the words "remember" you with. A lock of hair, a wallet size photo, or even a pulled tooth can help someone who doesn't have anything to keep in their thoughts, even if they don't want to. There's always the option of just passing on gifts you don't want, a convenient and legitimate way to give someone else, and get rid of that useless solar powered electric tooth brush your cousin got you last year.

If you think you're ready to take the next step to something that costs money, but no thought, there are plenty of gifts here too. If you're shopping for a child, what they really want is a Pony. And Ponies are expensive, so I'd recommend a videogame, the more violent the better, since this will teach the child about the real world. For adults, things are trickier, unless you're rich. If you're rich, everyone enjoys a car, most women will find expensive jewelry thoughtful and most men don't like you anyway, you rich snob. However, for those of us who are a little more pinched for cash, Art is always a safe gift, since no one can admit to not liking it without seeming unappreciative, and it's very often hard to tell the difference between a $10 painting and one that you stole from the Metropolitan Museum of Art. Then of course there is one of the best ways to give someone a gift, having no idea what to get and then donate the cost of it to Charity. When you tell the person this, they get the pleasure of depriving them of what they want, but also knowing that it was for a tax deductible, good cause, and if they're unhappy with it they're a fundamentally bad person to be pitied. If you're a complete sieve, or very poor, you can suggest giving to a good cause, and keep the money. If you're looking for a gift and you're willing to spend some thought into it, then I guess you don't need any suggestions. But I will give you an idea to get you on your way. Space pants. Now that your holiday shopping is all planned out you can enjoy the holidays, and if you're feeling up to it, leave a little something for me.

(1.) No one actually asked me this, but I bet some people wanted it.
(Comments or requests? E-mail HamiToney@HamilToney.mail.com)
ASCIT Minutes: Funding for House Pranks, Bagels

November 23, 2004

Present: Meng-meng Fu, Ga­len Loram, Shaun Lee, Kelly Lin, Kim Popendorf, Corinna Zy­gourakis

Absent: Ann Bendfeldt, Ryan Farmer (out of town), Claire Wal­ton

Introduction:
1. Call to Order, 12:15 PM
2. Tobey Huang asks to take the Rotation Survey, which will be posted on the donut web­site before the end of the term.
3. Todd Gingrich requests $100 to replace lights for the an­imal Lloyd House prank to trans­form Milikan Library into a gi­ant Christmas tree. Note: A $100 (Shaun abstains because he feels that this event is a house-based one that should be funded by ASCIT)
4. Other Business:
   a. The BoD discusses whether ASCIT should fund house pranks, wedges the Lloyd House Christmas tree or a recent prank in which Scarves turned the apartment of the Ricketts RA into a mini disco. The issue remains open-ended, although several members express their desire for the Lloyd Lights to be available to other houses that may need them for various occasions.
   b. Galen Loram asks BoD members to look at the bylaws and consider whether any changes or updates need to be made. The BoD should bring suggestions to the next meeting.

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Other Business:
5. Kim Popendorf and Corinna Zygourakis note that they attend­ed a recent meeting on gender issues. The goal of the task force is to come up with an education plan for the Caltech campus centered on gender issues. Students with opinions or ideas about gen­der issues should email Kim at kmzgourakis@caltech.edu.
6. ASCIT minutes note that the search for a new ASCIT secret­ary is underway. Three candidates will be interviewed this week, and a replacement secretary will be selected by the ASCIT BoD at its January meeting to replace the interim ASCIT secretary.
7. The next ASCIT midnight donuts will be on Wednesday, De­cember 1. Hope to see you there!

Meeting adjourned 12:35 PM.

November 30, 2004

Present: Ryan Farmer, Meng­meng Fu, Giten Loram, Shuan Lee, Kelly Lin, Kim Popendorf, Corinna Zygourakis

Absent: Ann Bendfeldt, Claire Wal­ton

Guests: Todd Gingrich, Tobey Huang

Introduction:
1. Call to Order, 12:13 PM
2. Tobey Huang asks to take Professor Ken Binmore out to lunch at the Alt. Vote: 5-0-0 (1 abstain­ment)
3. Tobey Gingrich requests $100 to replace lights for the an­imal Lloyd House prank to trans­form Milikan Library into a gi­ant Christmas tree. Note: A $100 (Shaun abstains because he feels that this event is a house-based one that should be funded by ASCIT)
4. Other Business:
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Meeting adjourned 12:35 PM.

Respectfully submitted, Corinna Zygourakis

Engineering and Science Majors:

Would You Like to Be A College Professor? Or a researcher at National Labs or NASA? Would you like to manage a team in a consulting firm? Or have a plethora of other professional opportunities?

If so, get to the frontiers of engineering science and tackle challenging questions that will make a difference in the real world.

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Would You Like to Be A College Professor? Or a researcher at National Labs or NASA? Would you like to manage a team in a consulting firm? Or have a plethora of other professional opportunities?
Mu27 is the first of three music theory courses (the entire three-course series will be offered in 2005-2006 so students can take one or two terms this year and one or two next). Classes consist of lecture/demonstration, in-class theory and listening exercises and sight-singing practice. Concert field trips will tour the L.A. Phil at Disney Hall and the Pasadena Symphony.

- **Music and the Late Romantics**


**TRIM-TRIMMING CONTEST**

The Tech Express will be hosting its second annual Tree Trimming contest. The contest starts on November 20th, and judging will take place on December 8th. Last year’s winners are on display. Wonderful prizes will be given out to the winners.

**Ballerino Dance Team**

Our intermediate international style class is taught Thursdays by Celsius’ Tudor Stonehouse and Gwyneth Card. Class begins at 8 pm in Winnett Lounge; the first hour will cover standard technique and the second will cover latin. The series runs for ten weeks and the cost is $25 for Caltech students, $40 for non-students.

**Ballroom Dance Team:**

will be offering Team Practice, held every Tuesday in the Braun Gym multipurpose room from 9 to 11 pm. The practice will feature the assistance of a professional coach so that team members can get advice and tips to improve their dancing. Team membership is required and a $5 fee is to enter the gym if you do not have Caltech/JPL issued ID.

**THE MONTICELLO FOUNDATION AND ROBERT AND DELPHA NOLAND SUMMER INTERNSHIPS 2005**

The Deans’ Office is accepting proposals for the Monticello Foundation and the Robert and Delpha Noland Internships. Thirteen to fifteen Caltech undergraduate women (current freshmen, sophomores and juniors) will be given an opportunity to participate in research projects outside the JPL-Caltech community for ten weeks during the summer. Each student will receive $1,500 stipend. Applicants are required to identify the projects in which they wish to participate. All arrangements with the principal researcher will be the responsibility of the student.

**INTERESTED IN MUSIC?**

Music Offerings in Winter Term

Mu27 - Fundamentals of Music Theory and Elementary Ear Training

Want to better understand how music works? Want some of the tools to help you write your own music? Want to improve your sight- singing ability? Want to be better at hearing intervals and chord quality (major, minor, diminished, augmented)?

- **THE MENSU HEALTH & WELLNESS SERIES**

December 16 - Feng Shui Your Way To Balance

Time: 12-1pm

Location: Women’s Center, Center for Student Services

Pizza lunch provided. Join us as lifestyle coach, author, and feng shui consultant, Pat Sendree, describes the Chinese wisdom of feng shui, and learn how space planning, color enhancement, and the use of positive energy enhance your environment and overall well-being. RSVP required! To sign up please call ext. 3221 or email: wcenter@studaff.caltech.edu

- **Mensa Education & Research Foundation Scholarship Essay Contest**

The Mensa Education & Research Foundation Scholarship Essay Contest is available to students who will be or are enrolled in any accredited U.S. institution of post-secondary education for the 2005 fall term. Scholarships range from $300 to $4,000. Additional information and the essay form are available via the internet: mensa.org. The deadline to apply is January 1, 2005.
Admissions Seeks To Improve Reputation

Continued from Page 1, Column 2

like Caltech. The house system is also a special aspect of undergraduate life here. Describing a recent dinner he had during Lloyd House’s fall term formal, Mr. Bischoff commented on the way people “know each other...there’s something very special. People know everybody and call each other by name. It’s a very different environment from a typical college.”

Commenting on the admissions process, Mr. Bischoff emphasized that the Institute seeks to admit people based on what they will do. “Given the opportunities at Caltech, who will you be when you walk out the door into the world and become a Caltech alum? There’s this mythology of admissions. Prospective students talk about admissions as if it’s all about what they have done. But admissions is like the stock market: we don’t care about what you’ve done. We care about what you will do. We’re also like the stock market in that previous performance may indicate future performance.”

Mr. Bischoff also mentioned that 75% of the class of 2008 also applied to MIT. Although Mr. Bischoff noted that not as many high schools students are aware of Caltech as there should be, 80% of the current undergraduate came from a public high school.

“Amissions are part-antropologist, studying the culture of the place and thinking how to explain it. It’s great to watch this interaction here. The students here are so bright and talented and focused on what they’re doing,” Mr. Bischoff observes.

The amazing research being conducted here also aids the admissions committee in attracting students. Describing his recent tour of the T-5, the 200-foot long super-sonic wind tunnel on the fifth floor of Guggenheim, Mr. Bischoff exhibits the excitement of the research process.

Mr. Bischoff emphasized that “we’re one little piece of Caltech, which is a large enterprise. The continuing challenge is to explain this place to people who don’t have much of an understanding of what an amazing place Caltech is.”

 Provost Paul Jennings says that good rankings confirm that Caltech is headed in a good direction.

Rankings Unlikely To Influence Any Change

Continued from Page 1, Column 5

“For a small school focused on science, it is not realistic to be listed number one worldwide,” Goodwin said.

In another survey performed by scholars of the institute of higher education at Shanghai Jiao Tong University, Caltech was placed sixth. This survey was based on six criteria, such as the number of research citations by academic staff, the number of Nobel prize or Fields prize winners among the staff and alumni, and how well the institution performs academically relative to size.

Caltech was ranked behind Harvard, which again clinched the top spot, Stanford, Cambridge, Berkeley, and MIT. It is placed directly above Princeton, Oxford, Columbia, and Chicago. American universities dominated the upper parts of the list.

While surveys such as these and that done by the U.S. News and World Report each year are influential among the general public and might influence admissions for the coming year, Caltech will not respond to the results with any change. However, the administration does consider the results of more serious surveys, such as that performed every ten years by the National Academy of Science and the National Research Council. Surveys such as this consider admissions standards and results, the reputation of faculty, the success of graduates. They concentrate on the goals of Caltech and the qualifications of the people at the institution.

Responding to more serious surveys, Caltech may consider where the school is placing emphasis and the areas where it wishes to be perceived as strong but is not. Furthermore, they provide reassurance and recalibration of internal judgments, determining how well the opinions of the members of the Caltech community match those of the public.

AIDS Memorial Quilt Sections Displayed for World AIDS Day

The Athenaeum is made into the Emerald City and the Olive Walk into the Yellow Brick Road as part of the annual Blauer Frosh Project.

People of the AIDS Memorial Quilt are designed to remember victims of AIDS. Sixty four panels, of over 45,000, were displayed in Brown Gym on December 1-3 in recognition of World AIDS Day.
Proposed ARTS Route Structure

**PASADENA**
Area Rapid Transit System

Proposed changes to the Pasadena Area Rapid Transit System include changing Route 10 to stop on Wilson and Del Mar and provide direct access to the Gold Line station on Allen. The change will make it easier for students to reach LA using the Gold Line. Unfortunately, the change will be cutting hours to save money.

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**Pasadena ARTS Proposes Route Changes to Bring Buses Nearby**

By BRIAN ZHOU

Proposed changes to the Pasadena Area Rapid Transit System (ARTS) will increase service to the Caltech campus. A redesign of Route 10 will move stops to just outside campus on Del Mar and provide direct access to Allen Station on the Gold Line.

In a presentation entitled "Proposed Service Improvements to the Pasadena ARTS," the Pasadena Department of Transportation delineated thirteen modifications before the city's Transportation Advisory Committee. Of these thirteen, seven were endorsed by the Advisory Committee, among which the key note was the reconfiguration of Route 10. In late November, the City Council green-lighted the endorsed proposals and set them to go into effect in February, 2005.

Irina Cruz of Security and Parking Services played a crucial role in lobbying for expanded coverage of the campus. She explains, "It just didn't make sense why the ARTS buses weren't coming to campus and we were interested in opening up discussion." Initially, the closest stops were on Green and Lake, but with the rerouting of Route 10, stops on Wilson and Del Mar on the west and north edges of campus will greatly cut the distance to ARTS access.

Another major motivation, reveals Cruz, was to make access to the Gold Line, the metro-rail to downtown Los Angeles and Union Station. Currently, students must walk to Lake to take Route 20 to either Fillmore or Lake Stations. However, due to the insufficient nature of Route 20 at around thirty minutes between buses, most students skip the buses altogether and prefer biking to the stops themselves.

Initially, simply a straight loop around the two major thoroughfares of Colorado and Green, Route 10 now cuts across Wilson rather than Hill and then travels down Del Mar before finally turning north to Allen and looping at Allen Station. The presentation recommended this reconfiguration specifically for its "connection to Caltech" and "service to Allen Station." Moreover, by turning onto Wilson rather than Hill, the route avoids running into or creating jams at the high-flow intersection of Colorado and Hill.

However, with the added miles of the extension, the frequency of Route 10 will be reduced from 12 minutes to an acceptable 21 minutes between buses. Moreover, service will end at 8 PM instead of at 10 PM on Friday and Saturday nights, resulting in an annual savings of $27,000. Statistics support this cut as minimal impact, for only four to five riders use the Route 10 buses per hour during the scrapped time frame.

Cruz explains, "There was no resistance to the changes, just government processes. The Department of Transportation was very enthusiastic that we were looking for service, since it meant interest." Praising the reachfulness and inspired work of the transportation officials, she adds, "The city of Pasadena wants Pasadena to be a car free city. The ultimate goal is to promote that." Indeed, the overhaul of the ARTS system aimed to increase performance to reflect changing ridership patterns and new demand. One modification that will have little consequence on the west-facing Caltech campus is the rippage of the start of service for several routes including Routes 10 and 20 to 6 AM from 7 AM with the goal of reducing the morning rush.

The presentation billed Caltech as "a major trip generator." Indeed, with the majority of the resident student body without cars, this assumption appears well founded. However, due the history of neglected service, some Caltech students are currently unfamiliar with the Pasadena ARTS. Sophomore Ken Ho, who says he usually walks to Old Pasadena, responds to the closer stops of Route 10, "Yeah that sounds good. It's better than walking down there." Junior Tim Barnes, however, raises some doubts. "For Caltech students, when you want to go somewhere by yourself, you don't have time. When you go somewhere in a group, you can usually find someone with a car." Nonetheless, with these improvements in accessibility and usefulness, ARTS certainly has become a highly practical alternative and will become more so with positive interactions and spread of knowledge. Additionally, frequent use of ARTS will contribute towards a more pleasant and harmonious Paso-