

Women's Basketball Game

2 PM

...followed by...

Page Party!

"When hell freezes over"!



TODAY: Harry Potter comes to a theatre near you!

TUESDAY: Hume speaks at Caltech

The California Tech

VOLUME CIII, NUMBER 8

PASADENA, CALIFORNIA

NOVEMBER 16, 2001

BALTIMORE RECEIVES EDDY AWARD

BY RUMI CHUNARA

On Wednesday, Nov. 14, the Los Angeles County Economic Development Corporation (LAEDC) honored President David Baltimore with an Eddy award at the annual recognition dinner. A celebration of economic development and excellence, the event is the sixth year for the Eddy awards, established to foster regional economic development, and honor those who do.

Caltech is a significant contributor to economic and technological development, particularly for the Los Angeles area; over half of start-up companies from Caltech stay in the greater LA area. Responsible for the licensing and transfer of technologies from Caltech and JPL, the office of Technology Transfer makes Caltech stand out as source of technological growth.

Although only founded in 1995, the office has seen 70 new companies come out of Caltech. In addition, since 1980 Caltech has issued over 800 US patents, and in 2000 alone over 120 patents were issued. Dr. Baltimore's involvement with the school, and its contribution to the economy was honored, adding to his many achievements.

The Honorable Michael D. Antonovich, Los Angeles county supervisor, was also awarded at the banquet, for his work in developing many aspects of Los Angeles's economic market, by serving on transportation boards to air quality commissions.

The LAEDC is led by a Board of Directors, comprised of top business and community leaders dedicated to sustained economic growth for this region. Los Angeles has the third largest port in the world, making it a gigantic center for economic activity.

Students and staff from Caltech, among many Los Angeles business community members attended the event, held this year at the Hilton Hotel in Beverly Hills; to support Baltimore, Antonovich, and the LAEDC's mission to make the world a better place, economically.

Caltech shows pride in international heritage

BY IRAM PARVEEN BILAL

This November, US schools, businesses and communities, along with US embassies around the world, are carrying out activities in support of the 2nd Annual International Education Week (Nov. 12-16). The week was jointly declared by the US Department of State and Department of Education.

Caltech is celebrating International Education Week for the first time and is incorporating a foreign film festival with the activities of the week. As many as six different cultures are being represented in the days from November 11-17. These include Italian, Cantonese, Russian, Korean, Indian and Iranian ethnicities. The remainder of the events will be held today and tomorrow.

Today at the Red Door Cafe, The Caltech C will present "Today's China - Culture, Achievement and the Future", which will be a poster presenta-

tion from 11:30-1:30pm and a noon concert by Lilian Wang, a Chinese classical musician playing the zither. In the evening at 6pm, OASIS (Organization of Associated Students from the Indian Sub-Continent) will host Diwali in the Beckman Institute Courtyard. This is the traditional Indian Festival of Lights.

There will be dancing, food and an art contest followed by the screening of the Indian film *Pushpak* at 8pm in the BI auditorium. On Saturday November 17, 2001, FICCIT will hold a reception at 7:30pm in the BI courtyard followed by a screening of the film *Silence* in the BI auditorium at 8pm. Everyone is encouraged to attend the events to be enriched by foreign culture and language.

"So far the turnouts have been very encouraging", reported Ms. Parandeh Kia, the Director of International Student Programs. The clubs that have already presented their events this week in-

clude the Italian Club, the Hong Kong Student Association, the Russian Club and the Korean Graduate Student Association.

Secretary of State, Colin Powell, in a press release, encouraged Americans to show interest in the celebration, "International Education prepares our citizens to live, work and compete in the global economy, and promotes tolerance and the reduction of conflict."

Hence, it is hoped that students will continue to show their interest in learning about the world and its different cultures by attending such campus activities. Powell also vowed that there is

no more valuable asset to America than the friendship of future world leaders who have been educated here.

Caltech International Week 2001 is sponsored by International Student Programs (ISP),



The Caltech Y, the Counseling Center and the Women's Center. For more information regarding the celebrations, contact the ISP office at x6330.

Watson Lecture: Quantum-classical transition on trial

BY JON FOSTER

"There are some things they don't tell you as you're growing up as a young scientist," Dr. Hideo Mabuchi confided at the opening of his Watson Lecture. "Sometimes, instead of running out to the great frontiers of science, you stumble across a little inconsistency. And sometimes, if you pull on that string of an inconsistency, everything comes tumbling down."

For the next hour and a half, Professor Mabuchi sat calmly on a chair on the stage and in a gentle voice explored what he believes to be a fairly important problem in modern physics, and why he has dedicated the early part of his professional life to

pulling on this little inconsistency and seeing if the foundations of modern physics would collapse around him. This conflict was the title of his lecture: "The quantum-classical transition."

Mabuchi explained that there is a curious legacy

of historical development in physics that leaves a very unclear transition between the world of very small things (governed by quantum mechanics) and the world of everyday things (ruled by classical physics). These theories are different in fundamental ways, and it is not at all clear how they should merge in the middle. Nonetheless, this problem gets relatively little attention, and Mabuchi

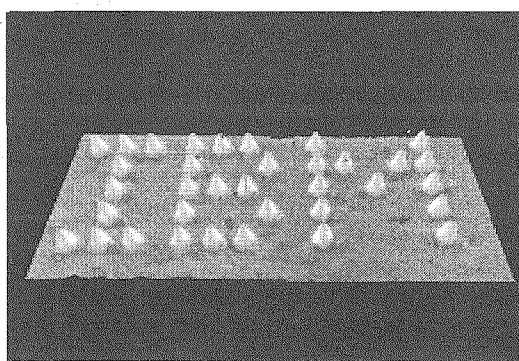
made sure to always note why many scientists disregarded this problem.

Illuminated by a red spotlight whenever he was playing devil's advocate, he noted some of the fascinating work that was being done on the very small end of physics (string theory) and the very large end (cosmology), and that these two subjects have been wonderfully dove-tailing in recent years. These are the "wild frontiers" of physics, and according to this view the size-range between quantum and classical physics (larger than an atom but smaller than a cell) is but the "middle-class suburbia" of physics.

Nonetheless, there are unanswered questions here, poten-

tially extremely important ones. The fundamental theories of quantum mechanics are completely linear and contain intrinsic uncertainty. The fundamental theories of classical mechanics are highly non-linear and uncertainty is only a measurement of ignorance. Yet classical systems are made up of quantum systems joined together. How does quantum fuzziness give way to the sharpness of classical physics? How does the orderly nature of quantum mechanics become nonlinear? Why is the transition so universal? How are we to understand the role of measurement (a classical process) on a quantum sys-

PLEASE SEE WATSON ON PAGE 2



One of the slides shown during Dr. Mabuchi's talk shows individual atoms arranged on a metal surface. Here, the atoms, which are normally described by quantum mechanics, look to be behaving perfectly classically.

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WATSON

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tem?

Mabuchi had few answers, and was more interested in convincing the audience that there was a problem here in the first place. One explanation is the theory of decoherence which says that this transition from quantum to classical happens in all systems, only it happens so fast for large systems that we never observe a quantum baseball. On the other hand, recent advances in quantum computing theory are predicting that large quantum computers could possibly be built in such a way as to maintain their

quantum nature, in effect resisting the decoherence transition.

Will the decoherence theory turn out to make everything alright, leaving only a few little things to clear up, or is our picture of the world fundamentally wrong because of these problems with reconciling these two theories? Only time will tell, but Dr. Mabuchi and his group (as well as a handful of other scientists around the world) will continue to try to answer this question.

As Mabuchi put it, "Often times you find these problems, which get to feel very personal," and it is this intense desire to solve a problem that has led to new understanding in the past.

THE OUTSIDE WORLD

by William Fong

Anti-Taliban Forces Take Over Kabul:

The offensive launched by the Northern Alliance resulted in the fall of Kabul this week. Northern Alliance troops advanced onto the capital forcing the Taliban to flee to southern Afghanistan. Reports as of Thursday suggest that the anti-Taliban groups have control of two cities to the north of Kandahar and are preparing to attack the Taliban forces in Kandahar. Also on Thursday, eight Western aid workers were released from an abandoned Taliban prison. Local leaders contacted the International Red Cross and U.S. Special Forces took the aid workers to Islamabad, Pakistan. The workers had been held by the Taliban for three months on charges of promoting Christianity.

Jet Crashes in New York City:

On Monday, American Airlines Flight 587 crashed in a Queens neighborhood where all 260 people aboard and 5 people on the ground were killed. The American Airlines Airbus 300 took off from Kennedy International Airport and shortly after takeoff, the vertical stabilizer and rudder were apparently lost. Without this tail assembly, the plane would have lost turning control and stability. Witnesses described a wobble and the cockpit recorder revealed that there was a loss of control 17 seconds before the crash. Investigations into why the tail fin and rudder fell off are underway with speculation that a strong lateral force-like "wake turbulence" could have ripped it off.

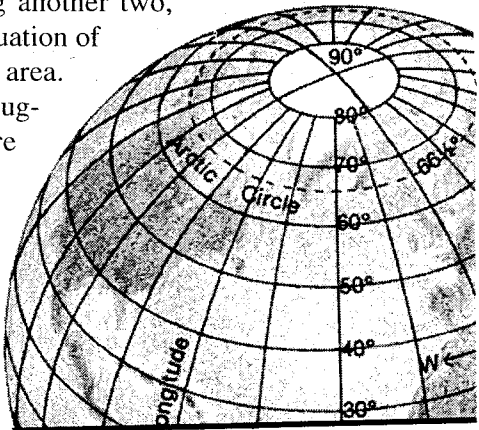
Powell To Call For Israeli Withdrawal:

When Secretary of State Colin Powell delivers his speech on Middle East policy next week, he is expected to call for a major Israeli withdrawal from Palestinian territories. This is part of a series of exchanges between the Israelis and Palestinians. This conditional withdrawal will depend on Israeli security; negotiations will only proceed when the Palestinians denounce terrorism and violent incidents. Powell will also lay out the vision of the Bush administration to create a Palestinian state. Israeli Prime Minister Ariel Sharon is expected to go to Washington on December 3 for talks with President Bush regarding the issues at hand.

Train Wreck Outside of Detroit:

Early Thursday morning, two trains crashed head-on killing two people, injuring another two, and forcing the evacuation of many homes in the area.

Early investigation suggests that the severe weather the night before may have been the culprit but a malfunction in a switch hasn't been ruled out as a cause of the crash.



Hume to visit, speak at Caltech

BY KEVIN BARTZ

As an Irish nationalist on the battlefield, he strode through tear gas and dodged rubber bullets, yet he also founded Northern Ireland's leading nonmilitant activist party. Throughout the 90s, he was chummy with both bomb-laden terrorists and Britain's quick-witted Parliament, but he also brought both to the table for a cease-fire. As a Catholic, he took the stage with a Protestant on the steps of City Hall in Oslo, Sweden to formally receive the 1998 Nobel Peace Prize.

Retired since this past September, John Hume brings over thirty years of peaceful politics with him tonight at 8pm to Beckman Auditorium, where he plans to share past experience and present outlook in "A Conversation With John Hume," a public dialogue with award-winning journalist Kevin Cullen of the Boston Globe. The appearance marks the culmination of a two-day stay in California, where Hume will meet with students at the Caltech Y on Monday afternoon and *LA Times* editors later that night.

"He's always been one of my heroes with the work that he's done in bringing peace to Ire-

land," said Public Relations Vice President Robert O'Rourke, who spearheaded administrative efforts to bring Hume to Caltech. "With all the progress that's being made today in Northern Ireland his is a very positive story of peaceful politics."

The third in the yearly Lee A. Dubridge Distinguished Lecture series, Hume's presentation features a conversational format targeting students seeking "a greater understanding of the whole process that's taken place in Northern Ireland that's gotten us as far as we are today," in the words of O'Rourke. Previous speakers ran the gamut from billionaire Warren Buffet to media magnate Walter Kronkite.

Kevin Cullen, who has covered developments in the region since 1996, will kick off the question-and-answer session with a series of inquiries aimed at "charting out the peace process, charting his political year, and seeing what [Hume] thinks now from his vaunted position of retirement." A nationally respected authority on Irish affairs, Cullen has been guest to a battery of talk radio shows over the last five years, in addition to opening the *Boston Globe's* Dublin Bureau.

"Lots of it taking us will be just

taking us through the whole peace process, looking at the results and just trying to get as many recollections as we can from his experiences over the past thirty years," explained Cullen. "While John has retired, his party remains the largest nationalist party in Ireland, so we'll be talking also about what the future holds realistically and politically for Northern Ireland."

Hume's roots in regional affairs are deep-seated. In 1970, he founded the Social Democratic Labour Party, bringing together the various strands of nonmilitant activists in Northern Ireland. And ten years later, amidst protest from his supporters, Hume staged talks with Gerry Adams, the political arm of the militant Irish Republican Army--negotiations that led ultimately to an unprecedented

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THE CALIFORNIA TECH

Caltech 40-58, Pasadena, CA 91125
 editorial desk: (626) 395-6153
 advertising desk: (626) 395-6154
 editorial email: editors@tech.caltech.edu
 advertising email: adv@tech.caltech.edu
 ISSN 0008-1582

VOLUME CIII, NUMBER 8
 NOVEMBER 16, 2001

EDITORS

Neda Afsarmanesh
 Janet Qi Zhou

BUSINESS MANAGER

Tasha Vanestian

ADVERTISING MANAGER

Dana Sadava

COPY EDITOR

Sam Yeager

COMICS EDITOR

Kenneth Kuo

STAFF WRITERS

William Fong
 Robert Li
 Jonathan Foster
 Iram Parveen Bilal
 Kevin Bartz
 Kevin Tse
 Terry Yen
 Philip Wong

CONTRIBUTORS

Jason Mitchell
 Kenneth Kuo
 Crippling Depression
 Dean Revel

TECHNOLOGY CONSULTANT

Vikram Dendi

MINTS

Tammy Ma

SYSTEM ADMINISTRATOR

Justin Kao

PHOTOGRAPHERS

Elisabeth Adams
 Jonathan Foster

CIRCULATION STAFF

Leo Rozenberg
 Chris Crabbe
 Jeff Bolz

FEATURE WRITERS

Justin Ho
 Jialan Wang
 Niky Morgan

ADVISOR

Hall Daily

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Advertising: 5 pm Monday
 Announcements (Mints): noon Monday
 Letters to the Editor: 6 pm Tuesday
 Unsolicited Articles: noon Monday

Published weekly except during vacation and examination periods by the Associated Students of the California Institute of Technology, Inc. The opinions expressed herein are strictly those of the authors and advertisers.

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What's new at the Y?

- **Noon concert.** Lian Wang will be performing today outside of the Red Door Café. The performance will be complemented with an Exhibition of Today's China, co-sponsored with the Caltech C.

- **Union Station's Thanksgiving.** Join volunteers from the Pasadena community in provid-

ing over 5000 meals to the homeless on Thanksgiving Day. Help with cleanup is especially needed. Contact bourbois@caltech.edu for more information. If you would like to help organize games for the children, please contact parakeet@ugcs.caltech.edu.

- **Joshua Tree** camping trip after Thanksgiving. Enjoy hiking, relaxing, and spending a night under the stars. The trip leaves late Friday morning and returns Saturday night (11/23-11/24). Contact homann@caltech.edu for more information.

- **Community Service Fair** Friday, November 30 from 11:30 to 1:30 outside of the bookstore. Talk to representatives of local service organizations and learn about opportunities to make a difference.

- **The Caltech Jazz Band** will be performing at noon on Friday, November 30 outside of the Red Door Café.

- **Day hike** Saturday, December 1 in the San Gabriels. Details about time and location to be determined; approximate length is 10 miles. Contact nwozny@caltech.edu for more information.

Did you know?

The Y funds club events that are open to the entire Caltech community. In addition to monetary support, the Y offers use of audio equipment and barbeque grills. For more information, please stop by the Y or email gregf@caltech.edu. Please note that funding applications are due a minimum of 2 weeks before the event.

The Y ExComm meets every Monday at noon in the Y Lounge to plan upcoming Y events. If you are interested in what we do, please stop by! The Y is located on the first floor of the Student Services Building, south of the Holliston parking structure.

News

HUME

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IRA-sponsored cease-fire.

"Northern Ireland is a region with a tradition of sectarian strife, where acts of terrorism feed off each other," offered Senior Michael Russo, who heads Caltech's student-based Peaceful Justice Coalition. "David Hume showed that you can break that cycle, and while Northern Ireland is still not perfect today, it's a hell of a lot better because of him."

Indeed, at the height of his career, Hume helped negotiate the groundbreaking Good Friday agreement, which remains the basis for negotiations in Northern Ireland. Implemented fully, it would allow for power sharing between various factions, disarmament of the IRA and "a more lasting peace." And just

last month, the IRA for the first time promised gradual disarmament, a "culmination of John Hume's idea of getting guns out of Ireland," in the words of Cullen. "He's always been the architect of the Irish peace process, bringing Sinn Fein [the unofficial political wing of the IRA] in peacefully and quietly."

In a related vein, some pegged Cullen's visit as particularly appropriate in the backdrop of America's own recent terrorist hijackings. His insight, said Cullen, "may be able to see how this all fits in the light of September 11th."

"The timing for Mr. Hume's visit is very appropriate for the negotiations in Ireland but also for our own country and the terrorism it faces," lauded O'Rourke. "After all, this is a man who's walked in this path many times in Ireland."

New director heads Beckman Institute

BY MICHELLE GIRON

Professor of Biology Barbara Wold will succeed Harry Gray as the new director of the Beckman Institute. The Institute, which has aimed during its fifteen years of existence to promote technology and research in biology and chemistry, has benefited not only the Caltech community in its sources for researchers of all disciplines, but also the scientific community as a whole in its contribution to the furthering of scientific knowledge and innovative technologies.

Wold herself is a researcher of mammalian embryonic devel-

opment and regeneration with a specific interest in skeletal muscle development. She sees the Beckman Institute's coming chal-



lenge as keeping pace with the cutting edge of biological and chemical research. Wold also notes that the Institute must optimize its use of time and facilities and cultivate ideas from scientists of all fields so as to

promote, through this "motive force," interdisciplinary connections between different areas of science.

This would require input not only from life scientists but also, for example, from geologists and

engineers. Wold foresees the life sciences coming to fruition in the near future as scientists are better understanding the role of whole genomes and proteomes, the total expressed proteins in an organism. Medical developments in this knowledge will alter the way non-scientists live for the generations to come. She also envisions the emphasis of behavior and consciousness as topics of modern biology, ones that will be addressed at Caltech although not at the Beckman Institute. The future of biological and chemical studies will prove to be exciting, and it is clear that the Institute Wold will lead will play a significant role in the future endeavors of the scientific community of Caltech and beyond.

A.S.C.I.T.
Minutes

NOVEMBER 12, 2001

Present: BoD with a Marcus, minus a Nick Knouf; Guest: Kevin Bartz

Meeting called to order at 5:09 pm.

General Meeting

The ASCIT BoD welcomes Marcus Williams as the new IHC Chairman who is replacing Dana Vukajlovich. Marcus was approved of his appointment by the ASCIT ExComm.

Joe Fassler and Martha-Helene came to the ASCIT meeting via the Faculty Board conference. Of particular interest to undergraduates-- Dr. Chris Brennan introduced a plan to formalize the procedure for resolving grade disputes outside of the faculty board grievance committee.

Joe's Parking news. Dr. Baltimore responded to the BoD's letter in an e-mail, mentioning the formation of the parking committee that will evaluate the prohibition on freshmen on-campus parking taking into effect next year. Responses from administration have been positive, but actions have not been taken to annul the policy. Joe plans to write an editorial in this week's paper to galvanize the undergraduate population about the need for demanding more student representation in these administrative decisions.

ASCIT dues. According to Paul Bellar who serves on the committee for scholarships, the ASCIT dues have not been raised in the past 15 years to account for inflation. In light of increases in health insurance and possible tuition hikes in the fu-

ture, ASCIT is conscious of the burden an inflationary adjustment would create on the student. However, if dues were to be raised, the increased revenue would be diverted directly to clubs so that students could participate in more activities without having to pay club dues. Increasing dues by even a single dollar per term would add \$2700 to annual club funding. Many prospective students choose not to come here because of the social life six feet under, but better-funded clubs have the power of augmenting social activity. Discussion over whether or not to put increasing the ASCIT dues to an undergraduate student body vote will be ongoing.

Todd. Todd enjoys getting donuts, and Martha-Helene likes donuts getting gotten by Todd. Eric Tuttle has been paid for his work on the 2001 Big Ts, which have arrived for upperclassmen and were mailed to alumni by the publishers. Erik Dill has not yet been paid, and the 2000 Big T will be arriving by the end of this week, to be taken by juniors and seniors only. Also, the little t should be arriving in student mailboxes, following autographing by the editors, by the end of the week.

IHC update. A new IHC Athletic Manager has been selected [Sophomore Shane Arney for those who don't know.-ed.]. Martha-Helene mentions that she would like the IHC Ath Man to advertise and coordinate the purchase of varsity jackets, which ASCIT will subsidize as a service to athletes.

UROH. The Undergraduate Research Opportunities Handbook is a publication that lists research opportunities through the departments. Accordingly, the faculty will be solicited for potential lab openings for undergraduates, pending approval of

a mass e-mail to professors by the Provost. As SURF applications will be on the minds of students soon, the UROH will be updated with new entries in the near future.

Budget. Ayeh has updated the budget, detailing the amount of money that has been spent thus far by the Stapleton administration. Ted's social budget has been completely spent, as last year's formal was better attended than anticipated. Most of the clubs have picked up their funding for each term, which may be a result of our new policy on penalizing clubs that pick up funding a term late. While we drafted the new policy as an incentive for clubs to be active each term, Martha-Helene opens the floor for evaluation of the penalty clause since the amount of money that we grant, divided over three terms, is already rather small. Penalizing clubs for negligent treasurers, secretaries, or presidents may be unfair. However, while half of the originally designated amount is granted to clubs that pick up their funding a term late, the other half ultimately goes to a different club since there are new clubs that form after our Budget Conference that we also provide for. The total club budget remains constant and money that isn't picked up by one club is recycled and given to another one. Again, this debate returns to the question of whether or not we should dedicate more money to clubs in general (and possibly raise dues), since students enjoying their undergraduate experience should not have to worry about whether their club has enough money to pay for sheet music or uniforms, etc.

Meeting adjourned at 6:14 pm. Evidently,

Justin

P.S. Midnight donuts were last night.

Sound alters activity of visual areas in human brain

Scientists at the California Institute of Technology have discovered that hearing can significantly change visual perception, and that the influence of hearing on visual perception occurs at an early perceptual level rather than at a higher cognitive level.

Ladan Shams, a Caltech postdoctoral researcher, and Shinsuke Shimojo, a professor of computation and neural systems at Caltech report that visual signals are influenced significantly by sounds at early cortical levels that have been believed to be "vision specific."

The team's initial behavioral finding was that when an observer is shown one flash of light accompanied by two beeps, the visual system is tricked so that the observer sees two flashes instead of one. In the new study, 13 healthy volunteers were asked to observe the stimuli on a computer screen and judge the number of flashes they saw on the screen.

While the participants performed the task, their brains' electric potentials were recorded from three electrodes positioned in the back of the scalp, where the early visual areas are located.

The researchers found that when the participants perceived the illusion--in other words, when sound changed the visual perception--the activity in the visual areas was modified. Furthermore, the change in activity was similar to that induced by an additional physical flash.

This suggests that the second flash, which is nothing but an illusion and is not due to a visual stimulus but rather caused by sound, invokes activity in the visual areas very similar to that which would be caused by a

physical second flash. In short, sound induces a similar effect in this area of the brain to a visual stimulus.

The goal of this study was to get an understanding of how this alteration of vision by sound occurs in the brain. More specifically, the researchers asked whether the change in visual perception is caused by a change in the higher-level areas of the brain that are known to combine information from multiple senses, or whether it is a change that directly affects the activity of the areas that are believed to be exclusively involved in processing visual information.

The main result of the study was that the early visual cortical responses were modulated by accompanied sounds under conditions where the observers experienced the double-flash illusion. This suggests that the activity of the "visual" areas in the brain is affected by sound.

These findings challenge two traditional perspectives on how the brain processes sensory information. The first assumption is that humans are visual animals; vision is the dominant modality and hence not malleable by information from other modalities.

Another general belief is that the information from different modalities is processed in the brain in parallel and separate paths.

The findings show that the visual information is affected by the auditory signals while being processed in the "modality-specific" visual pathway. These findings, together with earlier results in other modalities, suggest a paradigm of sensory processing that is more intertwined than segregated.

Features

A Thousand Words

BY JILIAN WANG

As we enter the thick of the digital age, we are increasingly experiencing time as the perpetual present. Large fractions of our lives are now lived online, where the past is overwritten daily and transactions happen instantaneously. We as Techers are not only highly immersed in the digital world, but our analog lives are also lived on the fly from problem set to problem set. Thus, along with bringing about dramatic changes in our lifestyle, digital technology has fundamentally altered our view of time.

In the digital world, nothing remains the same for long. Moreover, things often change at super-human speeds, and in this inconstant present often our only solace is the past. We are nostalgic for simpler, qui-

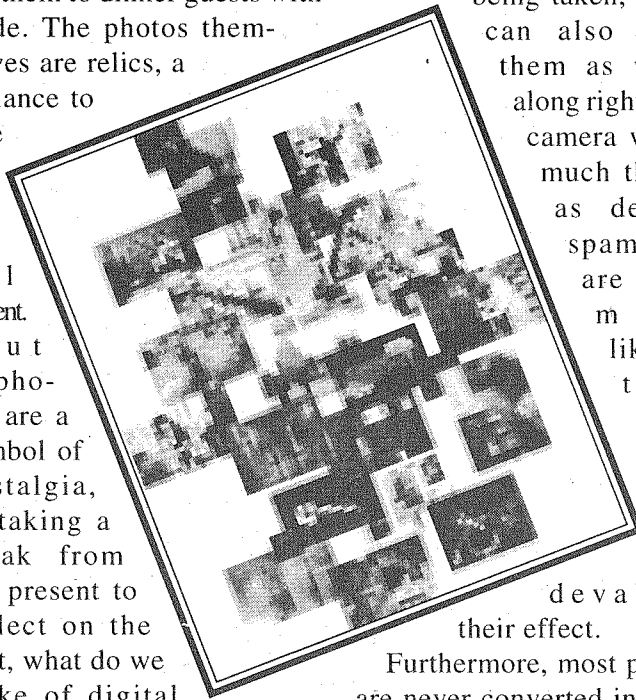
eter, slower times, when there weren't so many deadlines to meet, bills to pay, or emails to answer. Being an image-centered person, we best revisit these times through photographs.

While words are to be read and then discarded, good photos are kept and framed and taped onto our walls and locker doors. There is a certain ritual to taking photos. We must purchase film, then load the film into the camera, take the photos, unload the film, process it, and then wait a certain amount of time before we can see actually the photos we made oh-so-long ago. Because this process is rather complicated and expensive, we usually only take pictures of momentous occasions, and the ones we do get are of some value to us. We may put photos in a shoebox somewhere

and never look at them again, but we never throw them away. We treat photos as prized possessions, framing them and putting them in plastic sheeting to protect them, and showing them to dinner guests with pride. The photos themselves are relics, a defiance to the

digital present.

But if photos are a symbol of nostalgia, of taking a break from the present to reflect on the past, what do we make of digital photos? The only maintenance necessary for a digital camera is recharging the batteries and emptying the memory card once in a while.



Otherwise, we can take as many pictures as we want without spending any more money or going to get film processed. Not only can we view the photos as they are being taken, but we can also delete them as we go along right on the camera with as much thought as deleting spam. We are much more likely to take many more pictures, thus devaluing their effect.

Furthermore, most pictures are never converted into analog form. They are just stored on our computers along with all of our emails and mp3's. It hardly takes any effort to take them, and we don't think twice about deleting them. Thus, while digital photos are personal, the way we treat them is akin to the way we treat

mass-produced wall calendars and posters. We keep them, but they are not really permanent.

While digital and traditional photos are superficially the same, they are part of two very different paradigms. Traditional cameras are a technology over a century old, and the photos they produce are used to preserve important moments in permanent form. Digital cameras use an essentially different technology to capture and store the images. We use digital pictures to put on our webpages and to email to friends, but we don't view them as key mementos to be treasured and kept forever. The shift between the two technologies is symbolic of the shift in our whole conception of time.

Just as we purge past appointments and reminders from our digital calendars, we purge unimportant memories from our cameras and hard drives. As modern jobs, homes, marriages and lives, in general, become more temporary, it is perhaps appropriate that our modern mementos are also now semi-permanent at best.

Marcus in Macedonia

Something's changed at the Albanian bazaar. I used to wander through its vegetable-lined aisles as a celebrity on parade, waving and chatting with the Albanians who loved me because I was American. Now everything has changed.

America used to support the National Liberation Army (NLA), the Albanian guerrillas fighting the Macedonian police for greater minority rights. They were touted as freedom-fighters, responding to the oppression of the Macedonian society. Our support was not overt, and officially America was a neutral force for peace in the area, but promoting peace meant stopping the Macedonian government from crushing the insurgence, pushing through a cease-fire which gave the Albanians the terms they demanded.

Then September 11th happened. Now America is calling the National Liberation Army terrorists, as the Macedonians have been calling them since the fighting began. I take personal exception to the description as most of the "terrorist" actions have been ambushing army vehicles and raiding police posts, not instilling wild fear in the civilian population. I find "guerrillas" the fairest description.

Anyways, guerrillas or terrorists, they are Muslim and this has been causing problems. I didn't expect it would initially since for the month after the plane crashes Albanians were extremely forward about ex-

pressing their sympathy for America and their distaste for Osama bin Laden, but it's turned out that was just an initial reaction.

I don't know whether it is from the NLA being labeled terrorists, or the continuing stream of civilian casualties, but now America is not popular.

I went through the bazaar the other day to meet some friends and of course my friends don't judge me from the political perspective—but the random Albanians do. I was subjected to a relentless barrage of the Albanian language, from which I could only discern the words Osama bin Laden again and again.

As I was sitting in my favorite hole in the wall, sipping Turkish coffee and chatting with a Macedonian friend, a man grabbed me hard by the back of the neck and pulled me out of the chair. I whipped around and pushed him away, telling him to control himself.

"Bush is no good. Afghanistan, very good. Osama bin Laden, my cousin."

"Yeah, OK." I dismissed him. I don't entertain conversation with men who grab me by the back of the neck.

It was a far cry from the old bazaar days, when people would wave and welcome me. "Hey, America! Come here, America! America very good country."

On the other side of things, there was a Serbian guy who mingled with my group of friends but, whenever he was

drunk, would start yelling at me about bombing Belgrade and supporting the Albanian "terrorists" in Kosovo and Macedonia. It didn't bother me much, and it was interesting to see him blatantly refuse to see me as anything more than embodied American government.

Then, at a party last weekend, he strode up to me and offered me some of his wine. I took it, perplexed. Was he trying to show me that, after a few months of knowing me, he's realized that I don't embody the American politics? Is this his philosophical awakening?

As I sipped it, he patted me on the back. "America very good," he said in his broken English. I was slightly disappointed in his change of attitude, as his scorn has brought me some twisted pleasure.

"Why?" I asked. "What about when we bombed Belgrade?"

He ignored my poking confusion. "America very good. Muslims, BANG BANG. Very good!"

He was teaching me the rules of Balkan politics. There are a lot of simple people here, unable to see the world as much more than a personal ethnic struggle. Memories are short and the rule for political friendship is a What-are-you-doing-for-my-ethnic-group-right-now? attitude. It seems strange that I— independent and international— am now an ethnic American and helplessly stuck with all that it entails.

Read an excerpt online: www.hup.harvard.edu/spotlight/nozick

INVARIANCES

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Robert Nozick

In this pathbreaking book, the eminent philosopher Robert Nozick rethinks and transforms the concepts of truth, objectivity, necessity, contingency, consciousness, and ethics. Using an original method, he presents bold new philosophical theories that take account of scientific advances in physics, evolutionary biology, economics, and cognitive neuroscience, and casts current cultural controversies in a wholly new light. Nozick brings together the book's novel theories to show the extent to which there are objective ethical truths.

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Opinions

"Few things can help an individual more than to place responsibility on him, and to let him know that you trust him."

During my first few years here, I would've said that Booker T. Washington could've been talking about Caltech. The students of this University bear the trust and responsibility of the Honor System. They serve on sensitive committees that decide which prospective students have what it takes to be Techers and which academically ineligible Techers deserve a second chance. Undergraduates helped to create the CRC and the fire policy. They even help plan everything from Institute programs to the curriculum. In short, they have been trusted, active members in the community.

Lately, it has seemed that the voice of the student body has been falling on deaf ears. Once instrumental in the decision making process, students are lucky if they are heard after a decision has been made. It is alarming to see numerous policies being created or changed without any student input whatsoever. Students weren't consulted when insurance deductibles effectively went from effectively nothing to \$150 a year. If some students need a

fee waiver for the \$100 GREs which they take only once, how can they possibly afford four deductibles of this size?

This kind of decision making is ineffective at best, and sometimes even detrimental. A case in point is the Deans' unilateral dissolution of the student bartender program. Students know that the new, more expensive, "professional" bartenders have served underage drinkers. The new bartenders don't feel the same obligation to the community and their employer as students would. If student bartenders ever served minors, they could be disciplined in far more ways and far more effective ways than an employee of the Athenaeum.

As the Senior Class Presidents talk to the Deans about having Daihatsus on Ditch Day, the fire policy is rethought, and countless other policies are being reworked, I hope that the administration doesn't forget Booker T.'s words completely.

Dinkar Gupta, IHC Secretary
Rick Karnesky, Ricketts President
Tory Sturgeon, Blacker President

Reduce, Reuse, Recycle

In view of the Institute's recent financial difficulties, we, the undergrads, should do our part to help our administration save money. We consume an awful lot of toilet paper. Rolls and rolls are placed in the house bathrooms every week, and every week they disappear without a trace. Clearly, so much toilet paper cannot be going to its intended use. So the next time you reach over to the roll, stop and think, do I really need all four squares, or can I do with just two?

We should also separate two-ply paper our institute so generously provides us with, and use one ply at a time. Heck, the sink is just right there, so even if you do get your fingers dirty, just close your eyes and walk two paces over. And stop being so squeamish! It's not like the chemistry labs didn't teach you anything!

The recycling part is obvious, and I won't bore the readers with the elementary details of how that would work. Reuse, on the other hand, needs to be addressed in more detail.

First, let's look at all the paper that we have available to us: there are the copious problem

sets and exams given out by the teachers still stuck in the Neanderthal, pre-internet times. They should be collected by toilet-paper frosh (what, your house doesn't have that office yet?) and placed near the stalls within convenient reach, or better still, handed out by the toilet-paper-frosh on duty to everyone who goes to the bathroom. (And, no, you can't take one for your friend, let him get his own).

Not only will this reduce the spending on toilet paper by hundreds and hundreds of dollars every year (that can go toward building a square foot of a new biology building or one five-hundredth of a parking space), it will greatly improve the quality of the undergraduate life. Just imagine the joy you would feel while putting an ACM 95 problem set to such a worthy use.

In times when students stingily hold on to their paper notes and

Caltech strikes out on student issues

As many are becoming aware, Caltech has made a number of policy changes in recent months that will seriously impact students at Caltech. Individually, these changes could represent a serious need for the administration to cut costs or effectively allocate resources on campus. Collectively, they suggest a trend in current administrative policy to transfer important resources from students to other members of the community, even in spite of Caltech's renewed wealth and continuing campaign for large donations.

Issue #1: Budget Cuts. The whole of Student Affairs, which, as the name implies, runs virtually every office on campus that provides free services to students, received a 7% budget cut this year. Caltech President David Baltimore described the cuts as a way to be able to present the school to donors as a "lean and mean financial institution." This is an acceptable explanation as long as the rest of campus, which accounts for far more spending than Student Affairs and did not receive budget cuts, is just as lean and mean. Caltech is operating in debt, but instead of targeting students, necessary budget cuts could be easily (and fairly) spread across the whole campus if they need to be made.

Issue #2: Health Insurance. Most people know that deductible costs have been increased by \$150. On top of that, ASCIT recently pointed

out the existence of a document on the web that indicates plans to pass the cost of health care premiums on to students (graduate and undergraduate), starting with about \$400 next year and increasing them up to the full cost, \$1200, in a few more years. These costs could not be covered by financial aid. When these figures were pointed out in last week's *Tech* (surely embarrassing some top administration), students were quickly appointed to the health insurance committee, but no changes to the plans for new fees have yet been indicated. The cost of healthcare represents less than 6% of the cost of tuition, suggesting that Caltech should already have enough income to pay for it.

Issue #3: Freshmen Parking. This summer, a parking policy was put in place that will not allow frosh to park on campus next year. ASCIT submitted a letter to David Baltimore urging that the plan be reconsidered. His response to the carefully drafted letter, after three weeks went by, can be easily summed up with him saying, "We have taken this action because we believe that we have to do everything we can right now and then carefully consider its outcomes and what other measures might be possible." Careful consideration is important, but in this case, a response suggesting a desire to work with students would honestly have been appreciated. Only about 35 parking permits of about 4400 are at stake, if this year's numbers are representative. Parking space is tight, but simply restricting frosh parking will not solve the prob-

lem for more than a year of growth. Thus the effect will be only to change the status quo, and the only reason given is that "so many other schools do the same." Surely a way could be found to more equally share the parking problem.

All this and more is going on when Caltech has just received the largest grant ever given to an institution of higher education. While promises have been made to fund the renovation of the houses, such results will not be seen until well after all current students have graduated. Students who are here now are scheduled to pay more next year. It may seem that this will simply increase the amount of money at the disposal of the Institute (a good thing), but in reality, both the quality and the reputation of Caltech's undergraduate program will suffer. While it was once known for taking very good care of its students, it would now come to be more accurately described as a research giant with a passing interest in education.

While hosting a dinner for student leaders at his home last year, President Baltimore told a group of us that he would do "anything for an undergraduate." Since these issues are important to so many undergraduates, we would like to see this promise play out in terms of an open response to these concerns.

-ASCIT Board of Directors

sets (like midterms and finals periods), we can use library books. Not only will this help us save money on paper, but it will also free much needed office

space that these books are selfishly taking up. We will thus kill two

birds with just one stone.

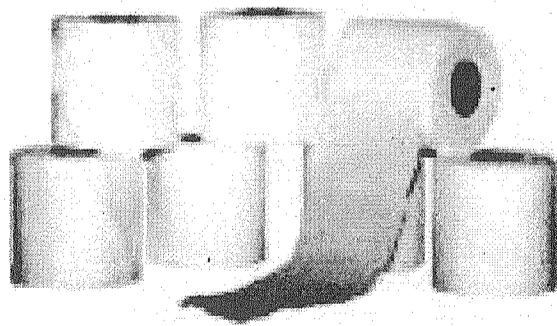
Seeing how the budget cuts are already beginning to affect our life, we should start this program immediately, so that by the time International Week comes around in April, we will have gone through all of the paper on campus. At that time we should make the final transition to not using toilet paper at all, perhaps as a tribute to a (much more ad-

vanced and environment-friendly) culture where such practices have long ago seized to exist or never took place. If you really need to wipe, the shower is right there.

You may think that this will lead to unsanitary conditions in the residential areas, but on the contrary, the custodians, who will no longer need to replace toilet paper rolls and take out the bags and bags of used paper towels, will be able to devote more time to clean student rooms and general areas.

The number of students who take regular showers will also increase, which will not only let their peers breathe much easier, but also improve their hygiene, and this will open the door to lowering our insurance costs, possibly saving us thousands more dollars. The solution is clear! Away with toilet paper!

-Yuliya Ruvinskaya



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OUR CEO'S GOAL IS TO IMPROVE OUR REVENUE PER EMPLOYEE. SO I'M GOING TO FIRE YOU AND BRING YOU BACK AS A CONTRACTOR.

LAST WEEK HIS GOAL WAS TO REDUCE THE NUMBER OF CONTRACTORS. SO YOU CANCELLED MY CONTRACT AND HIRED ME AS AN EMPLOYEE.

WELL, IT LOOKS LIKE SOMEONE DOESN'T LIKE HAVING HIS CHEESE MOVED.

YOUR PSYCHOLOGICAL PROFILE TEST RESULTS ARE EXCELLENT. CAN YOU START MONDAY?

MONDAY IS FINE. I'LL READ THE EMPLOYEE HANDBOOK OVER THE WEEKEND. THANK YOU VERY MUCH.

THE "GENTLE BIKER" LOOK IS OVERDONE. I'M GOING FOR "PSYCHO HILLBILLY."

HEE HEE. EILEEN HAS CROSSED WANDS WITH THE WRONG "LORD OF THE RINGS" FAN.

LET HER WEAR HER STUPID HARRY POTTER GLASSES ALL WEEK... I'LL BE WEARING THIS BABY EVERY DAY FOR A MONTH!

I CAN'T WAIT TO HEAR HER SCREAM.

NICE DUMBLEDORE HAT. IT'S A GANDALF HAT!

I USED TO BE PREPPY. THEN I WAS A DANGEROUS-LOOKING BIKER WITH A HEART OF GOLD.

I CALL MY CURRENT LOOK THE "PSYCHO HILLBILLY."

WHAT'S YOUR THEME?

THIS ISN'T A THEME. OH... SORRY, MAN, I HAD NO WAY OF KNOWING.

I CAN'T BELIEVE YOU'RE MORE EXCITED ABOUT THE HARRY POTTER MOVIE!

ARE YOU KIDDING?! EVERYONE IS! HARRY RULES!

OBVIOUSLY YOU HAVEN'T BEEN TO AINT-IT-GEEKY-NEWS.COM, WHERE "LORD OF THE RINGS" IS CRUSHING "HARRY POTTER" IN THEIR LATEST HEAD-TO-HEAD "MUST SEE" SURVEY.

SAME WITH THE ONLINE POLLS AT SPAZZDOT AND FANBOYNET. AND EBERT-IS-OUR-GOD.ORG HAS "POTTER" COMING IN THIRD!

TRY PEEKING AT THE REAL WORLD, SILLY.

THE-REAL-WORLD-SILLY.COM? ARE THEY NEW?

MAKE THE REAL WORLD, BONEHEAD.

I PLAN TO USE MY RAISE TO MOVE FROM MY HOME IN THE HANDICAPPED STALL TO A STORAGE FACILITY.

IF YOU ARE TRYING TO THINK OF A HOUSEWARMING GIFT, I WOULDN'T SAY NO TO A FLASHLIGHT.

IF YOU NEED HELP MOVING, DON'T HESITATE TO CALL ALICE.

YOU ARE TOO KIND.

I DON'T SEE WHY YOU HAVE TO MAKE IT "HARRY POTTER" VERSUS "LORD OF THE RINGS," JASON.

THEY'RE BOOKS AND MOVIES, NOT SPORTS TEAMS!

CAN'T WE AS FANS JUST ACKNOWLEDGE OUR DIFFERING PREFERENCES AND CO-EXIST IN MUTUAL RESPECT AND NON-DEMEANING HARMONY?

AND I THOUGHT HOBBITS LIVED IN A FANTASY WORLD.

DON'T MAKE ME ZAP YOU.

MAY I HAVE A DAY OFF TO MOVE MY HOME?

ONE HOUR.

WHAT? WHY ONLY ONE HOUR?

I LIKE TO NEGOTIATE.

I GUESS I CAN TRY DOING IT IN ONE HOUR.

AND YOU CAN'T USE A VEHICLE.

OH, HI EILEEN. NO, JASON ISN'T HOME.

HE WENT TO THE MOVIES WITH MARCUS.

WHICH ONE? OH, JUST THE ONE HE'S SEEN FOUR TIMES SINCE YESTERDAY...

YOUR FRIEND EILEEN JACOBSON SURE HAS A LOUD LAUGH.

AAAA! WHAT'D YOU TELL HER???

SINCE WHEN DO YOU WEAR GLASSES, EILEEN?

IT'S A COSTUME, CAN'T YOU TELL?

I'M DRESSING UP THIS WEEK IN ANTICIPATION OF THE MOVIE EVERY BOOK FAN HAS BEEN WAITING LIKE CRAZY TO SEE!

"THE LORD OF THE RINGS" DOESN'T OPEN UNTIL NEXT MONTH, DOOFUS.

BESIDES, WHAT TOLKIEN CHARACTER SPORTS THAT HARRY POTTER EYEWEAR?

WHY DO I BOTHER WITH THESE MUGGLES?

YOU'RE WEARING A COSTUME ALL WEEK BECAUSE OF THE "HARRY POTTER" MOVIE?!

EILEEN, YOU ARE SUCH A LOSER! CAN'T YOU SEE HOW FOOLISH YOU LOOK?!

HEY, EVERYONE, CHECK OUT EILEEN! SHE'S ALL DRESSED UP LIKE HARRY POTTER!

WOW, SHE'S PULLING A JASON.

OK, NOW I FEEL LIKE A LOSER.

NO, NO! I'M DRESSING UP FOR "LORD OF THE RINGS"!

HEE HEE. EILEEN HAS CROSSED WANDS WITH THE WRONG "LORD OF THE RINGS" FAN.

LET HER WEAR HER STUPID HARRY POTTER GLASSES ALL WEEK... I'LL BE WEARING THIS BABY EVERY DAY FOR A MONTH!

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AAAA! WHAT'D YOU TELL HER???

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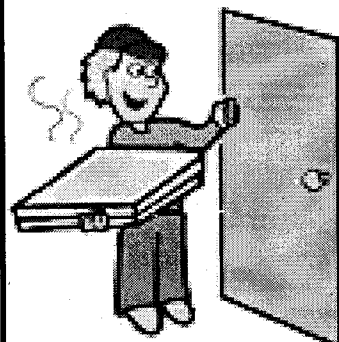
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MULHOLLAND DRIVE (R)	[1:30] 5:00 8:30
MAN WHO WASN'T THERE (R)	[1:30] 4:15 7:00 9:45
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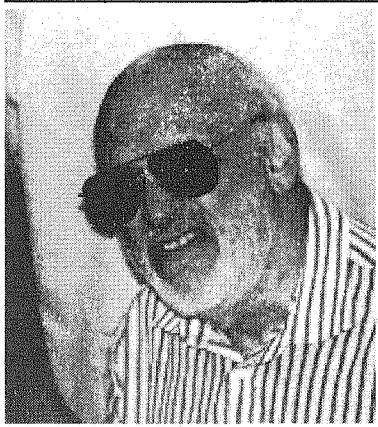
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Dean's Corner

Thanksgiving pasts, and repasts

by Jean-Paul Revel



The Fall term is flying by at an inconsiderate speed. So many emotionally consuming things have been happening, starting with the attacks of 9/11, followed by the war against those who shelter terrorists, through the Anthrax mini epidemic, the concerns about more bioterrorism and the other specters of doom that all these evoke, and now this morning another crash, likely unrelated, yet, in the present circumstances, casting an even wider pall than it would normally do. All this in addition to the usual local tensions, yeah you know better than I, homework sets, midterms and all that... the time for midterms is past already, but, because I was unable to go to camp this year, the school year does not seem to have started for me, when it very obviously has for everyone else. My personal clock still says it is September in spite of the fact that it gets dark early. Ready or not it is Thanksgiving time.

Following the traditions of the Holiday gives us a chance to put back some normalcy in our lives. So let us consider all the things we have to be thankful for, and let's honor the heroes of these dark days by being wise in what we do. To get into the right mood, lets yield to the earthier aspects of the holiday, let's think back to Thanksgivings past, to the traditional feasts of the season.

So abandon hope ye gobblers. Seeing that the featherless two legged ones are distracted, the poor beasts that make up the "pièce de résistance" for the holiday were perhaps hoping to be spared this year. No such luck. I can hear the pitiful cries of the turkey in Carmina Burana. Humans always contrive some way of justifying the pleasures of the table and right now a Turkey of course is an obvious choice to take us back to when the good times used to roll effortlessly. Extraordinary times call for extraordinary feasts, and so I decided to look for more esoteric stuff than turkey and where to go for inspiration but the web? Ah yes, a webbed fowl, a duck or maybe a goose. Of course a goose would be in tradition not so much at Thanksgiving than at Christmas, and more commonly in Europe than locally. A goose at Thanksgiving would lend a snobbishly sophisticated cachet to the occasion.

So I looked at what to do with a goose. Well, not what to do, that's obvious, but how to achieve the aim. I turned up a site named ehow.com, the place to go to find out how to do many things, even apparently cooking one's goose. Assuming that a goose has already been caught, or

bought (no advice on how to proceed in these preliminary matters) it recommends to first remove the neck and giblets and then, aha! to clip off the ends of the wings (to prevent them from flying off?) to use for gravy. What comes next, item 3, is a shock. It is an imperative request to login, and to do that one first needs to register. I hate to register. I really do. I don't want to be charged or have to join anything especially before knowing what will be revealed next. The gravy is just that, gravy, not the main concern. Having to register to see more than a hint of what goes into the sauce, discouraged me to look further. I did not want to have my name added to another mailing list, or worse to have it sold to someone. A long time ago, when I was still naïve, I used to register. Being a poor typist I once entered my name wrong. That taught me how far my name would spread. Not because of my fame or achievements, but to line someone else's pockets, being fingered as target for mass mailings to Dear Jeanpa, that fictitious character. Wish I had given the wrong address. Anyway I never got to find out about what to do with a goose, although I think I can guess. No matter! I abandoned the idea and went to look for something else, something I did not need to login for.

I came up with a mail order outfit in Louisiana, advertising Alligator meat, and locally made Boudin. Tempting, but ordering stuff on the web is equivalent to registering. So I kept on looking. A list of what one could do with salmon seemed to fit the bill. Now that's a novelty, who has ever heard of salmon as the mainstay of a Thanksgiving feast? An unusual feast for an unusual holiday

So I learned that, yes, salmon can be plain broiled or boiled or grilled or baked or even eaten raw (can you do that with a Turkey?) One can also prepare Sauce for Salmon Barracuda (?), Barbecue Salmon steaks with green ginger sauce, Bay of Fundy Salmon with black bean sauce (somehow I have trouble with the idea that the residents of the Bay of Fundy had a tradition of black bean sauce), Broiled Salmon in horseradish ginger crust, Broiled Salmon steak with french dressing (now that sounds like a great dish!), Cap'n Bob's Salmon steaks, Jeanne's Southwest Salmon (you don't say, Southwest Salmon?), Fillet of Salmon with anchovies and tomatoes, Fresh Salmon burger (watch out Tommy's), Fresh Salmon with tricolored peppercorn sauce, Mint-cured Salmon pasta (that one takes the esotericity prize, but I am stodgy enough to think that pasta does not belong on the Thanksgiving table. It sounds good every other day of the year, except of course for Christmas and New Year's, unless the pasta is in the form

of noodles like those my grand mother used to roll out and cut by hand on the dining room table), Old-fashioned stuffed Salmon, Poached Salmon with lobster butter, Pot au feu of Salmon, Roasted Salmon in horseradish crust, Salmon baked with a warm salad, Salmon colibiach (the word is not in the office's big Webster, and is not explained where listed on the Web (not -ster) but I think it has something to do with spinach and mushrooms), Salmon en papillote, Salmon in foil with Herb-Mustard Salad Dazzler® (a

patented salmon yet!), Salmon in lettuce chemise (pretty ose that, no?) Salmon in red wine with apricots, Salmon in vodka cream sauce with green peppercorns (you have to be 21 to eat it), Salmone alla Marcel Tromprier (whoever he was), Salmon steak bake, Salmon swiftie for 4, Salmon with cabbage, chestnuts & bacon, Salmon with yogurt, Seared Salmon with horseradish mustard vinaigrette, Salmon with aragula, tomato and caper sauce, White Alaskan Salmon with horseradish crust and a tomato-fennel coulis, Feuilletés de saumon aux asperges, Mom's Salmon mousse... In all (I spared you some), 134 recipes, not counting the Exotic, or the French Salmon recipes which were

listed separately. So now I have another problem. All this choice, what to do? What to do? Here I was looking to regain my composure and what do I get? Another headache.

I guess it will be much less trouble to plunk for the gobbler with all the trimmings. May it is the time to enjoy a Turkey and give thanks. I'll pay cash at the supermarket and no one will know I did not buy a butterball. Now lets see, how big a bird will it be?

A bientot
Jean Paul Revel
Jean-Paul Revel
Dean of Students

CRIPPLING DEPRESSION

Term One

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By Mike Yeh, Ben Lee, and Tim Wan

All characters are fictional. Any resemblance to anybody is purely coincidental. Comics represent the views of the authors and not the tech staff. Contact feedback@cripplingdepression.com



Mints

Announcements

TACIT Auditions. All members of the Caltech Community are invited to audition for the TACIT production of Shakespeare's *Love's Labour's Lost*. Auditions will be held as follows:

Wed., Nov. 28, 7:30-10:00 pm (Ramo);

Thurs., Nov. 29, 7:30-10:00 pm (Dabney Lounge);

Fri., Nov. 30, 7:30-10:00 pm (Ramo);

Sat. Dec. 1, 1:30-4:00 pm (Ramo).

See www.its.caltech.edu/~tacit for related information as it becomes available. The play will be performed during winter term on three consecutive weekends beginning February 22.

TACIT Production. The final two performances of Tennessee Williams's *The Notebook for Trigorin* will take place in Dabney Gardens and Dabney Lounge on Sat., Nov. 17, and Sun., Nov. 18, at 3 pm.

Work-Study Opportunity at JPL. Compton Gamma-Ray Observatory Archival Data Analysis for Studying Temporal and Spectral Properties of Gamma-Ray Sources. This is an announcement of opportunity for one or two undergraduate students in physics or astronomy to participate in a part-time work-study research program to process and analyze archival data obtained by the Burst and Transient Spectroscopy Experiment (BATSE) onboard the NASA Compton Gamma-Ray Observatory. The major scientific objective is to study the properties of gamma-ray emission from cosmic sources including black holes and active galactic nuclei and neutron-star systems. For this research, it would be useful if the student had some experience with programming as well as working with the Interactive Data Language (IDL) package. Employment would be on a part-time work-study basis during the school year and possibly up to 40 hours per week during the summer. If interested, or for further information, contact Dr. James C. Ling, JPL 169-327, (818)354-2819, james.c.ling@jpl.nasa.gov.

The **Caltech Ballroom Dance Club** is offering two five-week class series this month: Samba and Waltz. This week will be the third week of classes, but if you missed the first two lessons and know the basic steps come learn new figures. AMERICAN SAMBA, taught by professional instructor Andre Fortin, takes place on Mondays (through Dec. 3). Classes are \$6/lesson for Caltech students; \$8/lesson for others. AMERICAN WALTZ (Wednesday evenings through Dec. 5) is amateur taught and costs \$1/lesson (free for freshmen or PE credit). All classes are held in Winnett Lounge from 7:30-9 pm, followed by a half-hour practice session. Refreshments provided; no partner or experience is required. On Mondays from 9-11 pm we offer a mini-ballroom dance party (first half-hour is coincident with practice session) - request or bring your own music! For more information, contact Megan Knight at knight@its.caltech.edu or visit our web page at <http://www.its.caltech.edu/~ballroom/>.

As a result of **Irvine Foundation** funding, Caltech has a limited amount of money available for diversity programs related to underrepresented minorities and women for academic year 2001-2002. Proposals from students, faculty, and staff are welcome and should clearly address how the program relates to issues of diversity. Proposals should also include a description of the event, including purpose, audience, date, location, and budget. Application forms can be picked up at the Caltech Y. An Institute committee will review the applications and make the awards. For more information, contact Athena Castro (athena@caltech.edu) or Greg Fletcher (gregf@caltech.edu) at ext. 6163.

Student Programming Board. The Caltech Women's Center invites you to be part of the new and exciting changes taking place in our office. Our new staff is interested in working with you to develop programs and services that meet your needs and interests. Get involved now! Take on a leadership role in deciding how the Women's Center addresses the issues you are interested in. Be a part of designing, developing and implementing programs and events focused on women's and gender issues. Undergraduate and graduate students, women and men encouraged to get involved. Contact the Women's Center at ext. 3221 or stop by our office in room 265 of the Center for Student Services.

The Caltech Dance Troupe will be sponsoring Beginners' Hip-Hop Dance Classes on Tuesdays, 9-10:30 pm. Braun multipurpose room beginning October 9. No experience is needed and no special clothing or shoes are required. There is a \$2 fee for the introductory class. This fee will be credited to the fall quarter fee if you decide to join the class for the rest of the term. The term fee for students is \$10 and for non-students is \$20. To register, email troupe@caltech.edu. Free ballet classes sponsored by the Caltech Dance Troupe start Saturday, October 6. No special clothing or shoes are required for the beginners' class. All classes meet at Braun multipurpose room. Beginners meet from 1-2:00 pm, intermediate from 2-3:30 pm, advanced from 3:30-4:30 pm. For more info, see our website: <http://www.its.caltech.edu/~troupe>. Questions or comments? Email: troupe@caltech.edu.

Feeling stressed??? Sign up for the Stress Management Workshop offered by the Student Counseling Center. This workshop will include a mixture of informal lecture and experiential exercises focusing primarily on basic relaxation techniques and stress management skills. The three-session workshop will meet on consecutive Mondays (November 5th, 12th, and 19th) from 12-1 pm in the Health Center Lounge. Space is limited, so please call ext. 8331 to reserve your place in the group.

Event Highlights

WILLIAM BENNETT MUNRO MEMORIAL SEMINAR: 4:00 PM - 5:00 PM, 25 Baxter
"Cortical Reorganization of Visual and Language Functions after Early Auditory Deprivation," Daphne Bavelier, assistant professor, Brain and Cognitive Sciences, Radiology, and the Center for Visual Science, University of Rochester. Refreshments.

SWIMMING AND DIVING: SATURDAY NOV 17, 2001 11:00 AM - 5:00 PM, home game vs. Claremont-Mudd-Scripps.

MATHEMATICAL PHYSICS SEMINAR: 12:00 PM - 1:00 PM, 351 Sloan
"Capacity of Noisy Quantum Channels," Professor Mary Beth Ruskai, department of mathematics, University of Massachusetts, Lowell. Information: www.math.caltech.edu/events/mathphys.html.

MEN'S BASKETBALL: SATURDAY NOV 17, 2001 7:00 PM - 9:00 PM,
Chapman Tournament, at Chapman University.

To submit a Mint, e-mail mints@tech.caltech.edu or mail your announcement to Caltech 40-58 Attn: Mints. Submissions should be no longer than 150 words. Email is preferred. The editors reserve the right to edit and abridge all material. Deadline is noon Wednesday. Unless specified, all mints will run for two weeks.

The Dean of Students Office needs tutors in all areas--help is especially needed with the main Institute requirements e.g., MA1, MA2, PH1, PH2, CH1, etc. The pay is \$10.00 an hour. A strong understanding of the subject matter, patience, and the ability to communicate well are the qualities needed as a tutor. If you are an upperclassman and would like to be a Deans' tutor please stop by the Deans' Office to see Sandra located in 102 Parsons-Gates.

Athenaeum Tennis Ladder. All Athenaeum members, ages 18 and older, are invited to join a new managed tennis ladder. Once per month, ladder managers will post matches to be completed by the end of the month. Players call each other to arrange mutually agreeable date and time to play. The ladder includes both men and women, but matches will be formed between players within a few ladder rungs of one another. Each of year trophies will be awarded. Signups welcome at any time. For more information, contact Jane Wider at (818) 952-0941 or Rich Dekany at (626) 395-6798 or email to athennis@caltech.edu.

Community Service Opportunities Abound!

The Caltech Y offers students and staff a variety of ways to participate in community service. Opportunities include working with Habitat for Humanity, Union Station Homeless Shelter, math tutoring (on or off campus), reading tutoring, and working at local hospitals. One-time community service events are planned each term and opportunities for service on a regular basis exist. Undergraduates with federal work-study can receive \$15/hr for their community service work. To be added to the community service interest email list, or for more information about the Community Service Program, please contact Greg Fletcher at gregf@caltech.edu ext. 6163. Or, stop by the Caltech Y in the Center for Student Services (formerly Keck House) for a complete listing of opportunities.

Are you interested in discussing life at Caltech and in the United States? If so, the **Intercultural Discussion and Support Group** provides a forum for Caltech students to explore the process of cultural adjustment and relating across cultures. The group will meet every Monday beginning October 22 from 12-1 pm in the Women's Center Lounge. (265-86, 2nd floor of the Center for Student Services). This group is facilitated by the Counseling Center and International Student Programs, and is open to ALL Caltech students, graduate and undergraduate, American and international. Drop-ins welcome. Since lunch is provided, please contact Jim at endrizzi@caltech.edu if you plan on attending one of the meetings, this will guarantee that we have enough food!

Les-Bi-Gay-Trans Discussion Group

Whether you are out and proud, exploring your sexual identity, coming out, or anywhere in-between, we invite you to our Discussion Group, which meets on the 1st and 3rd Tuesdays of each month from 8:15 until 10:15 pm in the Health Center Lounge. The group is a great place to meet new friends and the atmosphere is generally very relaxed; at the same time, more personal and "serious" discussion topics can be addressed. This is a confidential meeting and attendance does not imply anything about a person's sexual orientation; supportive students and staff are welcome as well. And refreshments are served! For more information call ext. 8331. To find out about LBG events on campus, please visit the Caltech Student Pride Association (CSPA) calendar at <http://www.ugcs.caltech.edu/~cspa/>.

Scholarships

For information on available scholarships, please visit the Financial Aid web site at <http://www.finaid.caltech.edu/news.html>. All qualified students are encouraged to apply!

Upcoming Events

The Caltech-Occidental Concert Band, directed by William Bing, will present a free, fun filled, musical offering this Saturday night, November 16th, at 8 pm in Beckman Auditorium. Featured on the concert will be Caltech undergrads Joseph Jewell and Chad Kishimoto. Special guest artist will be the director of the Caltech Women's Glee Club, Desiree LaVertu. There will also be music by Sousa, Beethoven, and Gershwin. No tickets are required.

Women in Science is a new group on the Caltech campus. It was started by a group of concerned female graduate students, and we are now looking for new members. The group will be hosting Lunch With Faculty #3 on December 4 at noon at the Carriage House. Professors Jackie Barton and Sossina Haile will share their experiences about being women in science. Lunch will be provided; however, space is limited so please RSVP by sending email to Cynthia Collins at cynthiac@its.caltech.edu. If you would like to find out more about the Women in Science group, feel free to contact us at cynthiac@its.caltech.edu.

Caltech Library System Presents. The following sessions are approximately one hour of formal instruction followed by an optional hands-on practice. All classes begin at noon and meet in the Sherman Fairchild Library Multimedia Conference Room (Room 328). Walk-ins are welcome, but pre-registration is preferred.

Tuesday, November 20: "Structure Searching Quick Review: Beilstein, the CCD and SciFinder Scholar (CAS)"

Tuesday, November 27: "Business Resources"

View details and register for these and other upcoming classes at: <http://library.caltech.edu/learning/default.htm>. For further information, please contact Kathleen McGregor at ext. 6713 or kathleen@library.caltech.edu.

THE CALIFORNIA **TECH**

Caltech 40-58
Pasadena, CA 91126