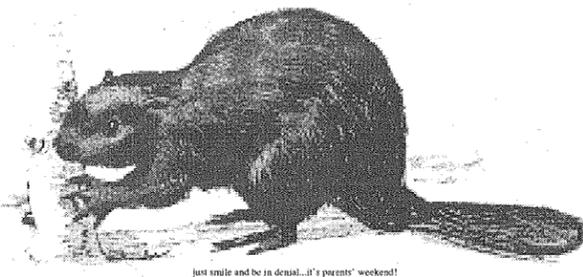


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The California Tech

VOLUME CIII, NUMBER 7

PASADENA, CALIFORNIA

NOVEMBER 9, 2001

CALTECH HOSTS BIODEFENSE CONFERENCE

BY ROBERT LI

Caltech hosted a forum on the issue of biodefense on Nov. 7. The goal of the forum was to explore society's vulnerabilities to bioterrorism, the science behind the problems and solutions of biodefense, and the steps that public agencies are, or should, be taking to deal with bioterrorism.

The forum began with a brief welcome by President Baltimore followed by presentations from Caltech Provost and Professor of Theoretical Physics Steven Koonin; Dr. Alan Zelicoff, Chief Scientist of the National Security and Policy Planning division at Sandia Labs; and Dr. Jonathan Fielding, Director of Public Health of LA County and Professor of Health Services and Pediatrics at UCLA. A Q&A session moderated by veteran reporter Jess Marlow from KCET concluded the evening.

Prof. Koonin, a government adviser on national security issues for many years, made his presentation on the civilian biodefense study he recently led for the Department of Defense. Four scenarios were analyzed: release of anthrax spores into the NY city subway system, release of smallpox on an international flight, ricin (a ribosome-inhibitor derived from castor beans) attack on a government building, and a wheat rust attack in the Great Plains. While the current health-care infrastructure is adequate for handling some of these bioterror scenarios, Prof. Koonin believes that present capabilities do not "meet the full spectrum of plausible threats". He advises that the public health information system be strengthened, efforts be made to determine who's been infected by a possible bioagent before symptoms appear, the development and deployment of sensors, research be done on possible biowarfare agents, and the installation of HEPA filters, positive pressure systems on other technologies to protect buildings from biological attack.

Dr. Alan Zelicoff gave his presentation on the Rapid Syndromic Validation Project (RSVP), a real-time epidemiological reporting system developed at Sandia National Labs. RSVP allows doctors to enter the symptoms of a patient into a data-

PLEASE SEE BIODEFENSE ON PAGE 4

Changes in student's health insurance

BY RUMI CHUNARA

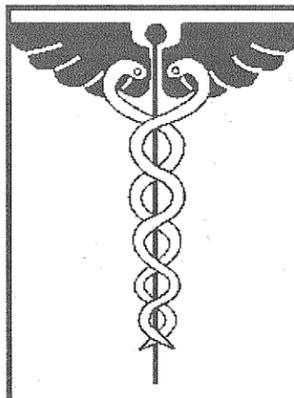
Caltech students received negative changes to their health insurance plan this year for the first time ever. Changes have been made to the plan in previous years, however according to Thomas Schmitt, the Assistant Vice President for Human Resources, this is the first year in which the changes "are not all positive" nor are they, this year, "relatively minor".

For example, last year, positive changes were made including increased well-child care up to age 6, and annual pap exams, pap lab tests and prescription contraceptives were introduced into the plan. This year, undergraduate and graduate students are burdened with a deductible increased by 50% to \$150. Not only is the cost increased, but Caltech will no longer reimburse it. An additional change, receiving less attention, is a \$50 fee for non-emergency use of a hospital emergency room.

The underlying reason for these changes is the increased cost to Caltech. Since 1997 the cost of health care has gone up by 50%, from \$1.6 million to

\$2.4 million. This change in allocation of costs will reverse the trend of loss for Caltech. Not only will Caltech have to pay less money to its health insurance company, but the insurer will lower their rates because of the effects of the changes. The Human Resources Department anticipates that this will make a real difference.

Students, however, have different thoughts. Grad students have always had the most concerns with the health care, in part due to more issues about dependancy. The Graduate Student Council Chariman, Jose Mumburu, outlined some of their concerns. This included that the cost of health insurance to Caltech represents only 0.6% of the entire \$400 million annual budget, while the deficit is about \$15 million. Mumburu pointed out that if it is Caltech's goal to eventually make students pay for their own health care (currently



at a cost of \$1200 per year), this would, however, make a significant impact of about \$2 million. Mumburu also compared the cost of the insurance to the average graduate student's monthly salary of \$1500.

While this cost is large, the Human Resource Department conducted a survey in April of this year, of local schools and their health plans, in addition to schools such as Yale, Stanford and Harvard, each with their own medical schools. Caltech was the only school on the list that covers the cost of the insurance for their students. Costs at other schools range from approximately \$500 to \$1300 per year, for varying levels of coverage.

Cost reduction, along with a commitment to delivering the same level of service to the students is what the Human Resources Department had in mind when it decided to make the changes. This goal was met, according to Schmitt.

BOD ANNOUNCEMENT REGARDING HEALTH INSURANCE CHANGES

In light of changes instituted over the summer concerning the Student Health Plan, the ASCIT BoD is now seeking undergraduates who would be interested in serving on the Health Insurance Committee that will address the impact that these changes will have on the quality of life. A summary of the changes is available online as a pdf file at http://www.atc.caltech.edu/WAJenkins_Happenings0701.pdf and in this week's Minutes in the Tech.

Any interested students should sign up outside SAC 33, and send a short blurb to the ASCIT secretary at justinh@cco.caltech.edu with reasons for his/her appointment.

ASCIT BoD

USAF general appointed new JPL Deputy Director

BY PHILIP WONG

Earlier this summer, Lt. Gen. Eugene Tattini made the transition from leading one of the most advanced Air Force research departments to becoming the Deputy Director for the Jet Propulsion Laboratory. Tattini succeeded Larry Dumas who retired from the position after nine years of service.

Prior to his position as deputy director at JPL, Tattini served twelve years as the head of the Space and Missile Systems Center at Los Angeles Air Force Base. His experience in managing large scale space projects was one of the key criteria in the selection process.

In addition to 36 years of service in the Air Force, Tattini graduated with a degree in industrial management from the University of Illinois as well as obtaining a master's degree in business administration from

Oklahoma City University. During his service in the Air Force, he has received the Distinguished Service Medal, the Legion of Merit with oak leaf cluster, the Meritorious Service Medal with three oak leaf clusters, the Air Force Commendation Medal, and the Humanitarian Service Medal.

Because his position at JPL is similar to that of heading the Space and Missile System Center, Tattini's project management and cost control is greatly valued.

However, the most notable difference and one that contributes to the excitement of working at JPL, is that the military relies on proven technology while JPL strives to make the impossible a reality.

General Tattini is working with Dr. Charles Elachi, JPL's Director who began his duties in May of 2001, to create a roadmap of JPL's future. Exciting coming

project include a community outreach to local schools, the Genesis project which collects solar wind particles, and the 2003 Mars Exploration Rover project.

Tattini will be speaking at the Leadership Forum presented by Caltech's Management Association. His talk, "An Illinois General in King Charles' Court: Perspectives on Technology Management," will be on Mon. Nov. 12, at 4:45pm in the Von Karman Auditorium.



JPL's new Deputy Director General Eugene Tattini.

Inside the Tech

The Usual

Dean's Corner 2
Outside World 2
Y News 2
ASCIT Minutes 5

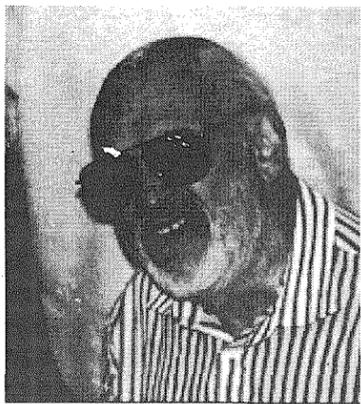
Features

Commentaries 4
Sports 5
Comics 6

News

Dean's Corner

Ant tracks and all that



by Jean-Paul Revel

Whether we wish to or not, these days we are all getting doses of biology, microbiology, public health and, unfortunately, also psychology. I say unfortunately because of the heavy impact of the repeated announcements of impending doom which accompany the stories about bioterrorism, especially anthrax. It is important to learn to cope with both the real and the imagined consequences. The reality of course is that anthrax is a dangerous disease. It kills. The imagined part is that it is a threat so dire, that, well it is hard to imagine what if. But while the infection puts us humans at risk, and we have

to learn to live with that threat, every year the flu kills many many more, some 20,000 just here in the US.

It is particularly difficult to deal with events over which we feel that we have no control, but one way to attack that is to dissect out the aspects of the problems over which we can exercise control. That's what was done by the people working at ground zero, the policemen, firemen, construction workers and volunteers who toil at clearing the rubble and retrieving the victims still buried at the site. In last Sunday's "60 minutes" program there was a touching segment dealing with volunteers serving food, providing supplies, acting

as an Honor Guard when newly discovered victims are removed from the site. They were all doing what they could faced with the enormity of the disaster. They were upbeat, forward looking, gratified to have found a way to contribute. It was a pleasure (if anything having to do with this catastrophe can ever be a pleasure) to see them having turned a terrifying experience into something positive. Part of that of course is that the workers that they support reciprocally shower them with encouragement. All will certainly fare better than those of us who deal with the problem by trying to forget it, to avoid it altogether. Not that it is not good to have some distraction. But distraction should not become the main channel to deal with our frustrations. You know, like playing endless and mindless computer games.

Anthrax has been around for much of humanity's conscious existence. Some claim that it is responsible for the 5th plague (the one where all the

Egyptian's cattle died) or the 6th, in which people suffered from boils and blackspots. The "burning wind of plague" of Homer's Iliad is also thought to refer to anthrax. The Huns, who swept across Eurasia around 80 AD, and who left fears that persist to this day, suffered tremendous losses of horses and cattle likely caused by anthrax. We don't know how the Huns felt about it, but can presume that they were stressed by their losses and were perhaps bitterly complaining to their leader (no, not Attila, he lived in the 5th century AD, so he could not have had anything to do with it) for leading them into such unfriendly environs. Although domesticated cattle in this country is in general well protected by a vaccination program, it is a "plague" to Bisons left to their own devices in wild or semi wild environments.

Because it was such a scourge of grazing animals, anthrax played an important role in the development of modern biology. The heavy losses of cattle in the 18th and 19th centuries stimulated a search for a cure. In the late 19th century Louis Pasteur (and others) had proposed that diseases were caused by germs. The first evidence that Pasteur was correct came

PLEASE SEE DEAN ON PAGE 7

The Outside World

by William Fong

One Month of War:

One month after starting its anti-terrorism campaign against Afghanistan, the US is still continuing its air strikes with this week's focus on troops situated north of the Afghan capital of Kabul and in the city of Kandahar. There have also been reports that the anti-Taliban Northern Alliance has made gains to within a few miles south of the strategic town Mazar-e-Sharif which lies along the supply lines to Kabul. In addition to the military action, the continuing investigation into the funding of terrorist groups led to the discovery this week that the borders shared by Brazil, Argentina, and Paraguay may be a haven and source for funding terrorist groups.

Fed Cuts Interest Rates:

On Tuesday, Alan Greenspan and the Federal Reserve cut interest rates for the tenth time this year and for the third time after the September 11 attacks. Tuesday's cut was a half-percentage point with the overnight bank lending rate down to 2.0%. Although the rate cuts have yet to show any success in stimulating investment, the Fed will continue with the rate cuts as it does its part to help revitalize the economy. Financial experts say that a quarter-point rate cut is expected for December with another to follow in January to bring the lending rate down to 1.5%.

Unemployment Soars:

In response to the weak economy, employers cut 415,000 jobs in the month of October, the largest unemployment jump in 21 years. With the unemployment rate up from 4.9% to 5.4%, there is growing concern about the status of the US economy; this has prompted President George W. Bush to consider an economic stimulus package to help stabilize the economy. With the third quarter GDP down 0.4% and a larger drop expected for the fourth quarter, a recession is in near future although some analysts speculate improvement in the economy by early 2002.

World Series Classic:

On Sunday, Game 7 turned out to be a classic as the Arizona Diamondbacks rallied in the bottom of the ninth for two runs off Yankees closer Mariano Rivera to win the game 3-2 and the World Series. Arizona, in its fourth year in the league, became the fastest expansion club to win the World Series. On the heels of the World Series finish, Bud Selig, the MLB commissioner, announced Tuesday that two teams would be eliminated before the start of the 2002 season. The frontrunners are the Minnesota Twins and the Montreal Expos.

Hurricane Michelle Rips Through Caribbean:

Over the past week, Hurricane Michelle moved from Central America to the east where it crossed Cuba, Haiti, and the Bahamas. Packing winds of 135 mph upon entering Cuba, the hurricane left many on the Caribbean islands in the dark as the power lines were taken down. There have been 16 confirmed deaths and numerous injuries as well as severe damage to the sugar and coffee crops in the Caribbean.



by Nathan Wozny

What's new at the Y?

- The Yankuititl Aztec Dance Group will perform today at noon outside of the Red Door Café.

- Noon concerts. The Dark Eyes will be performing next Tuesday, Nov. 13 (co-sponsored with ISP). Lian Wang will be performing next Friday, Nov. 16. Friday's performance will be complemented with an Exhibition of Today's China, co-sponsored with the Caltech C. Both will be outside of the Red Door Café.

- Speakers and Movie on Afghani Women. Tuesday, Nov. 13 at 7:30 pm on the 2nd floor of the Student Services Building. Co-sponsored with ISP and the Women's Center.

- Speaker on US Immigration Laws & The Constitution After 9/11. Wednesday, Nov. 14 at 7:30 pm at Beckman Institute Auditorium. Co-sponsored with ISP. - Union Station. Prepare and serve food for the homeless next Saturday,

Nov. 17. Contact Niki (niki@caltech.edu) for more information.

Did you know?

The Y was created 85 years ago by a group of Caltech students as a chapter of the national YMCA. The Y is now a nonprofit organization independent of Caltech and the YMCA, and is run by a board of directors, four full-time staff members, and a student Executive Committee.

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 the Student Services Building, south of the Holliston parking structure.

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New IHC Chair Appointed

To All ASCIT Members, The Executive Committee has chosen Marcus Williams to fill the vacancy in the position of Interhouse Committee Chair. Mr. Williams has graciously agreed to resign his position as Dabney President to take up this new role. Our committee would like to congratulate the new Chair and thank everyone who signed up to be considered for the position. The executive ruling regarding this matter will be posted on our website (<http://donut.caltech.edu/~excomm>) by this Monday. Any questions or concerns regarding this matter can be directed towards the Chair at al@its.caltech.edu.

Al Valdivia
Executive Committee Chair

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 7
NOVEMBER 9, 2001

EDITORS

Neda Afsarmanesh
Janet Qi Zhou

BUSINESS MANAGER

Tasha Vanesian

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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Letters to the Editor: 6 p.m. Tuesday
Unsolicited Articles: noon Monday

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Features

BIODEFENSE:

CONTINUED FROM PAGE 1

base and receive immediate information regarding the type and lethality of disease that the patient might have. Furthermore, RSVP allows public health officials to determine whether a novel disease was naturally or intentionally introduced as well as statistics regarding the geographical dispersion of the disease, the origin of the disease, and possible methods of transmission. RSVP involves a touch-screen terminal placed in a doctor's office con-

nected to a central server. It is currently in seven locations across New Mexico and will soon be introduced in 150 locations across the nation.

The last presentation was made by Dr. Jonathan Fielding, Director of Public Health of Los Angeles County. He gave an overview of the steps being taken by Los Angeles County regarding a possible bioterror attack. These include sending posters on anthrax diagnosis to all physicians in LA and a bio-attack exercise that will occur next week. Dr. Fielding listed

some steps that everyone can do regarding bioterrorism. These are: regular disaster preparedness including adequate stockpiling of food and water, regular preventive activities like exercise and getting a flu shot, and finally not to give into fear. Further details, including guidelines for handling suspicious mail, can be found at the Los Angeles Bioterrorism Preparedness and Response website at <http://www.labt.org>.

The event was held with great success to a packed audience in Beckman Auditorium.

First gamma burst detected by new NASA satellite

PASADENA, Calif.- Astrophysicists have combined the Palomar Mountain 200-inch Hale Telescope with the abilities of a new NASA satellite to detect and characterize a gamma-ray burst lying at a distance of only 5 billion light-years from Earth. This is the closest gamma-ray burst ever studied by optical telescopes.

The origin of cosmic gamma-ray bursts, spectacular flashes of high-energy radiation followed by slowly decaying optical and radio emission that can be seen from great distances, is still a puzzle to astronomers. Many scientists believe that the bursts result from explosions that signal the birth of black holes; however, all agree that more data are needed before we can really know black holes' origins and nature.

NASA's new High-Energy Transient Explorer (HETE) detected a gamma-ray burst on September 21. Data indicated that the event was located in the Lacerta constellation, and refined information from the Interplanetary Network (IPN), a series of satellites with gamma-ray detectors scattered about the solar system, reduced the region astronomers needed to search to find the fading embers of the explosion.

Scientists at the California Institute of Technology's Palomar Observatory, using the historic Hale 200-inch reflector, were able to locate the visual afterglow the following day. This was the first burst from the HETE satellite to be pinpointed with an accuracy sufficient to study the remains.

On October 17 the Caltech team used the Hale Telescope to obtain a redshift for the burst. This allowed a distance to be inferred, implying that the burst happened some 5 billion years ago. This makes the burst one of the closest ever found, and thus easier to study in detail. Also on October 17 the team members, led by Dale Frail from

the National Radio Astronomy Observatory, detected a twinkling radio counterpart of the burst using the Very Large Array in New Mexico.

According to Shri Kulkarni, who is the MacArthur Professor of Astronomy and Planetary Science at Caltech, the team was able to find the rare optical afterglow because of the quick detection and localization abilities of the HETE satellite and the rapid follow-up with the Palomar Mountain Hale Telescope.

HETE, the first satellite dedicated to the study of gamma-ray bursts, is on an extended mission until 2004. Launched on October 9, 2000, HETE was built by MIT as a mission of opportunity under the NASA Explorer Program. The HETE program is a collaboration between MIT; NASA; Los Alamos National Laboratory, New Mexico; France's Centre National d'Etudes Spatiales, Centre d'Etude Spatiale des Rayonnements, and Ecole Nationale Supérieure de l'Aéronautique et de l'Espace; and Japan's Institute of Physical and Chemical Research. The science team includes members from the University of California (Berkeley and Santa Cruz) and the University of Chicago, as well as from Brazil, India, and Italy.

"I'm very excited. I could not sleep for two nights after making the discovery," said Paul Price, the Caltech graduate student who first identified the optical afterglow from Palomar.

"With this first confirmed observation of a gamma-ray burst and its afterglow, we've really turned the corner," said George Ricker of the Massachusetts Institute of Technology, principal investigator for HETE. "As HETE locates more of these bursts and reports them quickly, we will begin to understand what causes them.

"The unique power of HETE is that it not only detects a large

sample of these bursts, but it also relays the accurate location of each burst in real time to ground-based optical and radio observatories," Ricker said.

Because the enigmatic bursts disappear so quickly, scientists can best study the events by way of their afterglow. HETE detects these bursts as gamma rays or high-energy X rays, and then instantly relays the coordinates to a network of ground-based and orbiting telescopes for follow-up searches for such afterglows.

Additional observations of this event, made with the Italian BeppoSAX satellite and the Ulysses space probe, were coordinated by HETE team member Kevin Hurley at the University of California. The combination of the localization by the Interplanetary Network with the original HETE localization provided the refined information needed by ground-based observers to point their optical telescopes.

The opportunity to see the afterglow in optical light provides crucial information about what is triggering these mysterious bursts, which scientists speculate to be the explosion of massive stars, the merging of neutron stars and black holes, or possibly both. Follow-up observations of GRB 010921 using the Hubble Space Telescope and the telescopes on the ground should move us a few steps closer to the answer of this cosmic puzzle.

The team that identified the counterpart to GRB010921 includes—in addition to Caltech Professors Shri Kulkarni, Fiona Harrison, and S. George Djorgovski—postdoctoral fellows and scholars Re'em Sari, Titus Galama, Daniel Reichart, Derek Fox, and Ashish Mahabal, graduate students Joshua Bloom, Paul Price, Edo Berger, and Sara Yost, Dale Frail from the National Radio Astronomy Observatory, and many other collaborators.

100% Natural

BY JILIAN WANG

Do you pay attention to the phrase "all natural" on the labels of foods? Since it is so loudly advertised on food packages nowadays, there must be a lot of people who do pay attention. Sure, fruits and vegetables are probably much healthier than such all-artificial foods as Twinkies, but our attitude towards food reflects a deeper principle. Our underlying belief is that what is natural is automatically better than what is artificial.

In fact, fragments of this idea are manifest throughout our culture. Not only do we look for natural ingredients in our foods, medicines, and shampoos, but we also cling to notions of natural ethics, such as "homosexuality is unnatural because it does not produce offspring, and therefore it is bad," and "natural selection has made man superior to other organisms, so therefore we have to use them as we please." We debate issues like

whether rape is a natural phenomenon, as if having the answer to the question would support or oppose the idea of rape as an immoral act.

As with many things, we seem to endorse nature only when it serves our own purposes. Come to think of it, most Americans have so little contact with nature that we don't have the right to do even that. When was the last time you've been someplace really natural? Sure, we have a nature-inspired campus, but its beauty is more like that of an art museum than a forest. Our trees and flowers are manicured to perfection by the army of grounds workers, and heck, even our pond is fake. In general, most organisms we tolerate (genetically engineered vegetables, Chihuahuas, those eerily geometric shrubby structures that decorate most lawns) do not occur in nature. And unless Porta-Potties and parking lots are part of nature, even the places we usually visit to enjoy nature are far from natural.

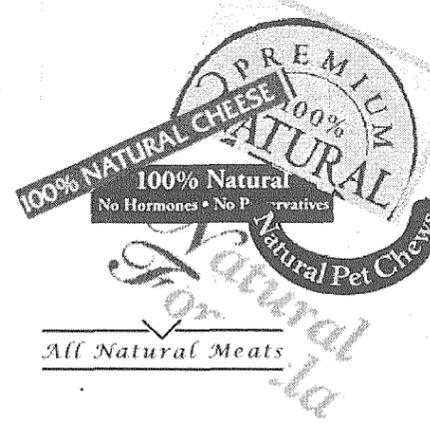
Contrary to embracing it, we

usually try to put as much distance as possible between nature and ourselves. We live in our polyester clothes staring at glowing screens in concrete dwellings or driving down paved roads in the enclosed bubbles of our cars. When nature actually threatens to invade our daily lives, our most common responses are to shoot it, step on it, or douse it with chemical pesticide.

Thus, our interactions with nature consist mostly of either using it to our own ends or destroying it as effectively as possible. Clearly we do not care a bit about the "natural order of things," if there is such a thing. Even if we did, we wouldn't have a clue as to what the natural order is. Thus, invoking nature to justify social Darwinism or allay the guilt of eating a cookie is nothing but hypocrisy.

The word nature itself so that it no longer refers to the wild world, but to safari parks, herbal shampoo, and Hain Pure Foods brand ricecakes.

Nature is now a catchword for advertising and rhetorical purposes only. So if what is natural is good, as is popular opinion nowadays, then what does that make us?



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A.S.C.I.T.
Minutes

NOVEMBER 5, 2001

Present: BoD - 1 IHC Chairperson. Guests: Tory Sturgeon, Dinkar Gupta, Wei-Wei Yang, Janessa Link.

Meeting brought to order, with a creepy letter sent from Tasmania concerning the September 11th terrorist attacks at 5:09 pm.

Guests

Tory and Dinkar held the first senior-class meeting of the academic year to discuss tomorrow (Ditch Day) and the commencement speaker. Following the tradition of not presenting commencement speakers with honorary degrees, our gratitude and association with us will be his/her one reward. Tory and Dinkar were also hoping to get a little help from ASCIT in the form of monetary funds. In past years, a small sum has been provided to support refreshments at the meetings, and in light of ending the 'eo' events formerly budgeted by previous administrations, there is a possibility that there is room in the budget to grant their request. Decision is pending a closer review of our current budget situation.

Wei-wei and Janessa came to request some additional Multi-house funding for the Annual Dabney House Drag show that will be held this Saturday, November 10th. Unfortunately, we already provided Dabney with Multi-house funding for the Halloween Pumpkin drop, and Multi-house funds are only

granted once per term.

General Meeting

Publications update. The 2001 Big T's, for non-first year undergraduates only, arrived last week and were well-received. For his work over the summer, ex-ASCIT President Eric Tuttle is asking the BoD to approve his salary and the cut left over from advertisements to pay himself and his staff. According to the ASCIT Resolutions, the editors and the Big T staff are automatically entitled to the left-overs from advertisements, but Eric is requesting final approval to be bona fide. The BoD votes 6-0 to approve his salary and earnings from advertisements. Erik Dill, editor of the 2000 Big T, likewise requested approval of his salary, which will be partially siphoned to Wren Montgomery, alumnus '00. Wren was kind enough to fly herself down from Berkeley and work diligently to finish the Big T this spring after usurping the project from Erik Dill. The BoD is grateful to both Ms. Montgomery and Mr. Tuttle for their work in completing the Big T's on such short notice. At the same time we are aware that the immensity of the task makes it hard to find people who are dedicated each year, and we are considering some changes to its layout. The BoD would like to put more emphasis on the clubs and the house pages, that will be completed by the respective club representatives and House historians, so that the editors will not be inundated when the beginning of summer wafts of beaches and SURF projects. We will also do a better job of advertising that any additional revenue left from advertisements will go to the salaries of the Big T staff, in order to entice more students

to run for positions. This year's Big T staff is already working diligently on the 2002 Big T and we do not anticipate any delays in publication that have plagued past administrations. Because of the delay in the publication of the 2000 Big T, we will need to mail an extra batch of yearbooks to the departed alums of 2001, and we are hoping that the Alumni Association may be able to help us in some of the shipping costs.

Advertising events. ASCIT reminds clubs that our calendar on donut is available for posting events that you might want to publicize to the undergraduate community. The launch of the C@ltech site was especially spiffy, and we're thinking of making little postcards as a plug for our website to advertise Bookmart, club rooms, and the Screening Room. Once the DVD library is up and running again we expect more hits on donut. A proposal is on the floor to allow clubs that reserve time in one of the club rooms to automatically have their meeting/event listed on the calendar. Such a task could be implemented easily by the Web guys, who are happy with ASCIT after having been treated to dinner at the Athenaeum. Another note on clubs: charging student UID for club dues with the exception of ASCIT dues is now prohibited, since the paperwork the Bursar would need to handle would be immense. Unfortunately, this clause extends to charging for the formal as well, so it appears that registration and online UID payment for the ASCIT formal may not be an option this year.

ASCIT van. Now that Martha-Helene and Todd have swapped van-selling and donut-providing

duties, Martha-Helene is eagerly seeking info such as 1) where is the van? 2) what color is the van? and 3) how much is the van worth? It is resolved that Suzette Cummings will know a lot more about this enigmatic vehicle than us combined. When and if the van is sold, ASCIT will be sure to throw a Van Farewell party.

Achievement Awards. Professors who were awarded ASCIT Teaching Awards at the end of the last academic year are still awaiting invitations to lunch at the ATH. Nick and Ayea are working to figure out how much money is left in the ARC account and whether or not the sum is adequate to treat each professor to lunch, as the plaques were more expensive than expected and may have dipped into the account.

Health insurance—the nitty gritty issue of the term. The Graduate Student Council is working hard to reduce the cost of Caltech health insurance coverage for dependents, which was increased from last year as one of several changes in the health insurance policies. As indicated in a communication from Dr. William Jenkins, the Executive Vice president for Administration (available as a pdf file at http://www.atc.caltech.edu/WAJenkins_HAPPENINGS0701.pdf) undergraduates now pay an increased deductible of \$150 from \$100 for insurance coverage and are no longer reimbursed by the institute. It is predicted that for the 2002-2003 academic year, 1/4 to 1/3 of student health insurance costs, which amount to \$400/year, will be transferred from the Institute to the stu-

dents. Eventually, the entire cost of insurance coverage (\$1200) will be shifted to students. There was an alternative to the current provisions of the Student Health Plan that would have established parents as the primary insured, encouraging students to remain under their parents' insurance policy. However, this option was rejected by Student Affairs due to concerns that patient confidentiality would be compromised, as charges for medications and visits to the Health and Counseling Centers would automatically appear on parents' statements. The Health Center was especially worried that students would feel less comfortable in utilizing their services since such information would be available to parents. However, the spiraling costs of health insurance will become an increasing financial burden, and financial aid packages do not currently take insurance costs into consideration when deciding how much to grant students. ASCIT is of the firm belief that greater undergraduate and graduate student opinions should be represented on the Health Insurance Committee to address the changes and their impact on the quality of life. Accordingly, the BoD intends to address this issue thoroughly at the upcoming Student-Faculty Conference if the more student input is not heard before-hand. ASCIT will be holding interviews for candidates who wish to serve on the Health Insurance Committee.

Meeting adjourned at 6:07 pm.

Evidently,

Plagued by Midterms

SPORTS

Caltech Fall Sports in Review

Men's and Women's Cross Country

Caltech ran strong at the SCIAC Championships with a fifth place finish for the men and a sixth place finish for the women. Ten Caltech runners set personal records in the meet: Ian Shapiro, Eric Anderson, JR Heberle, Steve Berardi, Silas Hilliard, Steve Habegger, Abel Bourbois, Serena Eley, Tracy Janov, and Kathleen Kiernan. The men's finish was the second best in 5 years (fourth in '99) while the women's was tied with their best in 5 years (sixth in '96 and '99). Graduate student Ian Shapiro finished fourth overall with a time of 26:11, qualifying for the NCAA Regionals in Salem, Oregon on Nov. 10.

Men's Soccer

Caltech finished up a tough season with losses to Chapman and Redlands. The loss to Redlands gave the Bulldogs the outright win of the SCIAC. Seniors playing their final games for Caltech were Doug Baker

(29), Fernando Campos (2), Ben Kalenik (13), and Brian Palmer (9). Although the regular season is over, don't miss the alumni game this Saturday, Nov. 10 at the North Field.

Women's Volleyball

The women played hard in their final week of competition against two tough SCIAC teams. Six seniors, Barbara Kraatz, Ingrid Cotoros, Lusine Danakian, Emma Kang, Karen Lam, Daina Paulikas, and Dana Vukajlovich, played their final match for Caltech. Freshman Colleen Moody hit .333 on the night and added six digs. Senior Barbara Kraatz had 5 kills, 4 aces, and 8 digs on the night. Sophomore setter Megan Kennedy had a great night with 2 kills, 9 assists and 9 digs.

Men's Waterpolo

Caltech took on some talented SCIAC teams this week with a narrow loss to Occidental at home. This week marks the last week of competition for the team as the Championships start on Saturday at Pomona-Pitzer. The competition

will be an all-day event.

Men's and Women's Fencing

The teams all gave a great effort with the men winning 3 of 4 and the women winning 4 of 4. Next Saturday Caltech hosts the Stanford Cardinals, a national powerhouse, and the following weekend the team travels to San Diego to face conference nemesis Cal State Fullerton and UCSD.

The previous weekend, at the UCI Individual Tourney, grad student Cedric Anene won the foil, senior Tiago Wright won the saber, senior Sarah Quan showed for third in the epee, and Senior Abraham Kuo won fourth in the men's epee. The fencing team is off to a great start!

Come support your fellow Teachers at the alumni games! Also, basketball season is starting soon... come watch the men's basketball alumni game this Saturday at 2pm in the Braun Gym.

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OH, I CHANGE EVERYTHING YOU SAY?!

I SIGNED UP FOR A YOGA CLASS.

THEY SAY IT WILL HELP ME ACHIEVE HARMONY AND BALANCE.

FAILING AT THAT, I PLAN TO STARE AT STRETCHY WOMEN.

I'VE LOST TWO POUNDS SINCE I SIGNED UP FOR YOGA CLASS.

AND I NEVER GET SICK ANYMORE.

YOU HAVEN'T HAD A CLASS YET.

MAYBE I'M SOME SORT OF YOGA PRODIGY.

WALLY LOOKS DIFFERENT.

HE CHANGED WHEN HE STARTED YOGA CLASSES.

ALL I'M SAYING IS THAT IT MIGHT NOT BE A "YOGA" CLASS.

SUSPICIOUS YOU ARE.

WE'RE GOING TO HAVE A "TOWN HALL" MEETING TO IMPROVE COMMUNICATION.

BUT IT'S NOT IN AN ACTUAL TOWN HALL. AND I'LL HAVE QUESTIONS IN ADVANCE, SO IT'S NOT A MEETING PER SE.

WHO DO WE GIVE OUR QUESTIONS TO?

I THINK YOU'LL FIND THAT IT DOESN'T MATTER.

ASOK, YOU ARE THE WINNER OF A PRESTIGIOUS AWARD FOR ATTENDANCE.

MY NAME IS MISSPELLED... AS AN OBSCENITY.

TYPO

TYPO? YOU ADDED FOUR LETTERS!!

Foxtrot by Bill Amend

WHAT ARE YOU DOING?

WRITING A LETTER TO CBS.

WHAT FOR?

"SURVIVOR 3: AFRICA" HASN'T BEEN DOING AS WELL AS ITS PREDECESSORS IN THE RATINGS, SO I THOUGHT I'D SHARE SOME IDEAS TO MAKE "SURVIVOR 4" MORE EXCITING.

DO YOU SUPPOSE AFGHANISTAN IS OFF LIMITS?

I DON'T KNOW, BUT THIS ROOM SHOULD BE.

ONE OF THE THINGS GETTING OLD ABOUT "SURVIVOR" IS HOW EACH SEASON STARTS OFF THE SAME WAY.

WE SPEND THE WHOLE FIRST EPISODE WATCHING THE TWO TRIBES TRY TO MAKE FIRE. THAT NEEDS TO CHANGE.

MY "SURVIVOR" WOULD HAVE FIRE FREELY AVAILABLE AND MOVE ON TO NEW CHALLENGES.

SUCH AS?

WHOA. WHEN YOU SAY "FREELY AVAILABLE"...

GATHERING ASBESTOS.

ROGER, WOULD YOU MIND PUTTING A STOP TO JASON?

WHAT'S HE DOING?

HE'S BEEN DREAMING UP VARIOUS IDEAS TO MAKE THE TV SHOW "SURVIVOR" MORE EXCITING AND HE WANTS TO PASS THEM ALONG TO THE PRODUCERS.

WHERE'S THE HARM? WHO KNOWS—MAYBE THEY'LL EVEN USE ONE OR TWO!

THAT WOULD BE THE HARM, DEAR.

PEOPLE GET VOTED NO, INTO THE ISLAND? NO, SHOULD'N'T THEY BE VOTED OFF IT? IT'S A BIG VOLCANO, AND...

I'M JUST SAYING THAT WITH SO MUCH MONEY AT STAKE, THE STUFF THEY DO ON "SURVIVOR" SHOULD BE HARDER.

TAKE THAT ONE FOOD CHALLENGE THEY ALWAYS DO—SURE, EATING BUGS AND WORMS AND COW BLOOD IS GROSS, BUT FOR A MILLION BUCKS I'D DO IT.

THAT REMINDS ME—MOM'S LETTING PAIGE COOK DINNER TONIGHT.

A PERFECT EXAMPLE! MAKE THEM EAT SOMETHING LIKE THAT!

BUT DON'T YOU NEED TO HAVE A SURVIVOR?

ANOTHER THING I'D CHANGE ABOUT "SURVIVOR" ARE THE LOUSY TRIBE NAMES.

KUCHA? PAGONG? BORAN? EXCUSE ME? I'D GIVE THESE TRIBE NAMES THAT INSPIRE FEAR!... DREAD!... TERROR!...

IMAGINE THE SITH TRIBE VERSUS THE BORG TRIBE.

YOU, UM, LEFT OUT "DERISION."

I SWEAR I GOT CHILLS JUST SAYING THAT.

WHAT'S WRONG?

I STILL HAVEN'T HEARD BACK FROM THE "SURVIVOR" PEOPLE.

I DON'T GET IT! MY IDEAS TO SPICE UP THE SHOW WERE GREAT! MY STEEL-CAGE-MATCH SYSTEM FOR SETTLING TRIBAL COUNCIL DEADLOCKS ALONE WOULD PROBABLY DOUBLE THEIR RATINGS!

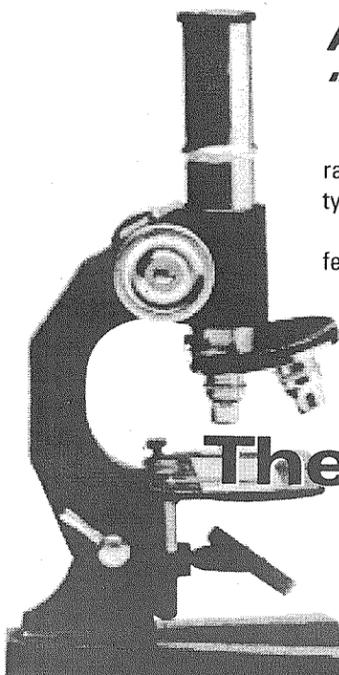
MAYBE YOUR SUGGESTIONS ARE SO GOOD, THEY'RE STILL BUSY COUNTING ALL THE MONEY THEY'LL BE SENDING YOU.

I HADN'T THOUGHT OF THAT! THANKS, PETER!

YES, THANKS, PETER.

JUST KEEPING THINGS INTERESTING.

WOHOO! I THINK I'LL MAIL THEM MORE IDEAS!



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Dean's

DEAN:

CONTINUED FROM PAGE 2

from the demonstration by Robert Koch that anthrax was indeed transmitted by a bacterium. A few years later Louis Pasteur had developed a vaccine against the dread disease and was triumphantly carried around on the shoulders of celebrating French peasants. (NB not all disease are caused by germs, some are caused by other organisms, or by physiological failures, etc).

What makes anthrax such a desirable (feared) weapon in biological warfare? After all it is not transmitted from people to people. The disease spreads not by exposure to the anthrax bacteria but by exposure to large numbers of their spores, usually by ingestion or inhalation. Skin lesions, although ominously coal black in color (hence the bacteria's name) are only rarely fatal. Spores are like lifeboats in so far as bacteria are concerned. They form when the conditions for bacterial survival deteriorate, encapsulating bacterial DNA in an almost indestructible shell. All bacterial spores are tough, but the spores of *Bacillus anthracis* are unusually so.

Having such a sturdy spore means that a terrorist's calling card can stay around for a long time. Anthrax spores, buried in the soil for even fifty years can still germinate and continue the bug's life cycle. They are washed out by rains and concentrated as the puddles dry up, ready to infect sheep eating the grass and swallowing or breathing in anthrax at the same time. The spores germinate in the lungs or the gut and develop into bacteria, which produce the toxins responsible for the damage leading to death. Unless exposed through malfeasance, people contract the disease by handling animal pelts or eating meat from sick animals.

Besides the longevity of its spores, the time course of the disease also contributes to making anthrax a convenient weapon. The symptoms of the infection are not obviously threatening until it is already too late for treatment. That is because death is caused not by the bacteria themselves but by toxins they release. Once sufficient toxin has been released and people or animal in serious trouble, killing the bacteria with antibiotics

is of no help, because the antibiotics have no effect on the toxin. As a result one must treat prophylactically, before serious symptoms are apparent, with little to go on but a suspicion of exposure.

This Russian roulette aspect of not knowing whether one is at risk until it is too late makes anthrax particularly well suited for terrorism, because, whether exposure is real or not, many can be led to fear. Suspect packages and mail believed to be laced with anthrax spores have been reported from as far afield as Mexico, Malaysia, South Africa, the UK, Brazil and Pakistan and elsewhere. The level of alarm is now so high that paint fumes recently led to a bioterrorism scare. All of us are a bit hesitant when handling the mail, well I am. I guess if I was seriously concerned about a piece of mail I would gingerly place it in a resealable baggie, wash my hands thoroughly and call safety. Obviously you don't want to sniff the envelope or even your fingers. But don't use caution as an excuse for ignoring internal mail (you know, grades, letters from

the dean, that invitation to dinner with your advisor).

Besides what are the chances that any of us would be a target? That ordinary people would be exposed "by chance", like the postal employees is one thing. That some high officials be targeted, perhaps, but I have my doubts that a foreign terrorist would see even a senator (even a senate majority leader) as an appropriate target. The "National Inquirer" staff makes a little more sense to me as a visible recipient of tainted mail. It would seem that the more visible the target, the better. Aum Shinrikyo picked not some remote local train but the Tokyo subways for spreading nerve gas. Actually Aum Shinrikyo tried unsuccessfully to spread anthrax and failed, showing that it is easier threatened than done (actually they failed in part because they did not realize they were using a non-virulent strain). I believe that terrorists would attract attention to their cause by targeting the WTC, using hijacked planes as weapons. But is it likely that someone would attack a hospital stockroom em-

ployee? Maybe her association with a hospital was the reason. Maybe she was accidentally exposed, but has anyone considered that she might have been one of "them" and contaminated herself?

I hope all of you are coping with the additional stress. You can help yourself by doing your work, by talking about your fears and concerns with your friends and with the rest of us. Remember to exercise, to rehearse for the upcoming concert, you are participating of course, aren't you? Remember, they may be going against us, but sure are unlikely to be going after you. You and me, we are just little ants running along our tracks. A bientot!

Three informative web sites:

www.bact.wisc.edu/microtextbook/disease/anthrax.html

www.defencejournal.com/dec98/anthrax

www.nytimes.com/books/first/g/guilemim-anthrax.html

Jean Paul Revel

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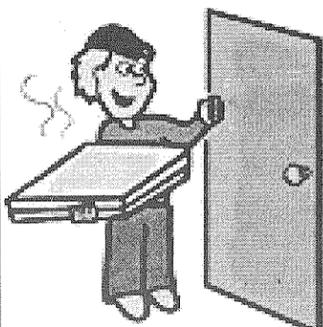
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WAKING LIFE (R) [11:45] 2:15 4:45 7:15 9:45
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BLOODLUST (R) 10:00
MULHOLLAND DRIVE (R) [1:30] 5:00 8:30
MAN WHO WASN'T THERE (R) [1:30] 4:15 7:00 9:45
HEIST (R) [11:30] 2:10 4:50 7:30 10:00
FOCUS (PG-13) [11:30] 2:05 4:40 7:15 9:50

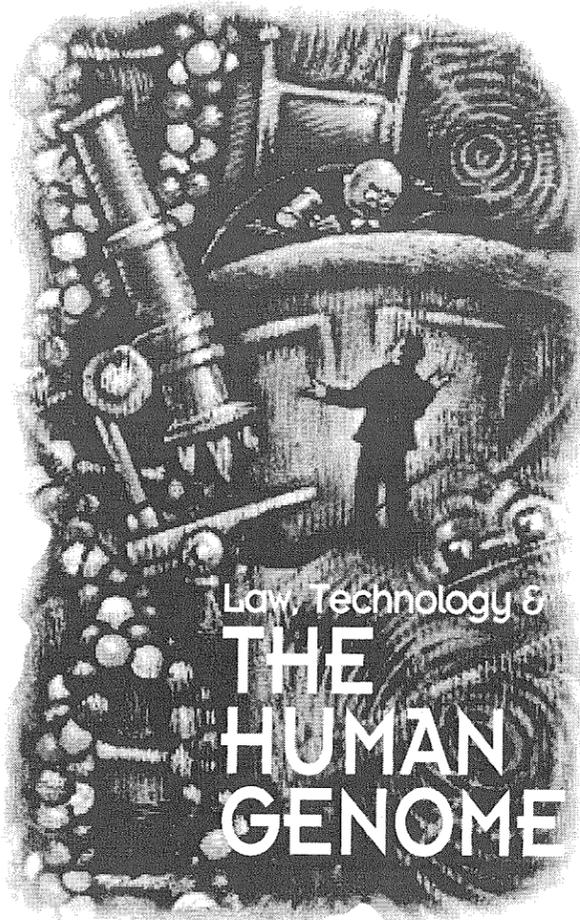
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Mock Trial
Patenting the
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Mints

Announcements

Flu Shots will be available free of charge to Caltech students and staff who present a current, valid Caltech ID. Vaccinations will be given at Winnett Lounge on Wednesday, November 14, 2001, from 10 am to 5 pm. - ONE DAY ONLY. Dependents are not eligible for this program.

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.

Japan Internship Orientation Meeting. Are you a freshman, sophomore, or junior who wants a meaningful, research-based summer internship? Are you interested in the Japanese culture? There will be a presentation Friday, November 9, 2001 from noon to 1 pm at the Center for Student Services, 3rd floor Conference Room (414 S. Holliston Avenue). Former interns will share their experiences. Space is limited to the first 30 people. Light lunch will be provided. The Japan Internship Program is sponsored by the Career Development Center.

Exchange Programs. Sophomore and Juniors: Spend a term in Denmark! Come to an information meeting on the Copenhagen Exchange Program and meet the Danish students who are here at Tech now. Wednesday, November 14th at noon in the Winnett Club Room. Lunch will be served - RSVP no later than Monday, November 12 by e-mail: ssstone@caltech.edu. (You must have a 3.0 GPA to apply.)

The Environment, Health, and Safety Office in conjunction with the Pasadena Fire Department will be offering Pasadena Emergency Response Training (PERT) on Friday, November 16, 2001 from 9 am to noon. The disaster training is taught by the Pasadena Fire Department. The session will cover what to do before, during and after an emergency. It will also cover disaster psychology, what to expect following an event. The training is open to anyone interested in becoming better prepared for an emergency. If you are interested in attending the PERT please contact the Environment, Health, and Safety Office at extension 6727 to reserve your place. Class size is limited so reserve your seat today.

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.

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 Kristin Abbott at kabbott@caltech.edu or call (626) 395-3180. Or, stop by the Caltech Y in the Center for Student Services (formerly Keck House) for a complete listing of opportunities.

The Caltech Ballroom Dance Club is offering two five-week class series this month: Samba and Waltz. Classes started last week, but if you missed the first class come anyway and material will be reviewed. AMERICAN SAMBA, taught by professional instructor Andre Fortin, takes place on Mondays (through Dec. 3). Classes are \$6/lesson or \$20 for all four remaining classes for Caltech students; \$8(lesson)/\$28 (all 4 weeks) 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. Additionally, on Mondays from 9:00-11 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/>.

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 LBGT events on campus, please visit the Caltech Student Pride Association (CSPA) calendar at <http://www.ugcs.caltech.edu/~cspa/>.

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.

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!

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 **YWCA Pasadena Foothill Valley and the Pasadena Central Library** speaker series, WomenTalk, will be presenting Valerie Peck of the Partner, Peppers & Rogers Group and her talk on "Women's Networking Today: Getting ahead in e-commerce fields: consulting, high technology and engineering." Ms. Peck is a leader in the field of e-commerce business-to-business strategy and market development. This event takes place Wednesday, November 14, 2001, 7-8:30 pm at the Donald Wright Auditorium, Pasadena Central Library, 285 E. Walnut Street, Pasadena. Tickets are \$10, free with YWCA membership card. For more information, call (626) 793-5171.

The **Caltech Division of the Humanities and Social Sciences** will present its next seminar in its series on Science, Ethics, and Public Policy given by Dr. James Voelkel, a Sloan/Dibner Fellow, Dibner Institute for the History of Science and Technology, Massachusetts Institute of Technology. The topic will be "Weird Science: Brahe, Kepler, and the Obscured Purpose of the Astronomia nova (1609)." The seminar will take place Thursday, November 15, 2001, at 4 pm in Room 25, Baxter Building. Seminars are on the Caltech campus and are open to the community at no charge. For information, contact Michelle Reinschmidt at (626) 395-3563 or michelle@hss.caltech.edu. A complete list of SEPP Seminars and Harris Lectures scheduled for this academic year are posted on our web site: <http://www.hss.caltech.edu/ses/SEPP.html>.

Flutist Stephanie McNab will present a recital at noon Thursday, November 15 in Dabney Lounge. Free lunch will be provided for 100 people. Ms. McNab, a Donald E. Hudson Visiting Artist with Caltech's student chamber music program, is a newly-appointed member of the Buffalo Philharmonic. She will be joined by Visiting Artist Paul Stein of the LA Philharmonic and Caltech's chamber music director, Delores Bing, in a program of music by Bach, Mozart, Molique, and Cortese.

Acclaimed clarinetist Charles Neidich will make his debut with **The Pasadena Symphony** in an all-Mozart program on Saturday, November 10, 8 pm, at the Pasadena Civic Auditorium. Conducted by Music Director Jorge Mester, Neidich will perform Mozart's Clarinet Concerto. Also on the bill will be the ever-popular Symphony No. 40 and the somber and plaintive Masonic Funeral Music. This is the first of three all-Mozart concerts the orchestra will present during its 2001-2002 season. Single tickets are \$10, \$22, \$24, \$40, \$42, \$52 and \$64 for adults; \$5 for children ages 5 to 17. Student and senior rush seats are \$10 and are available with I.D. the week prior to the concert. Season subscriptions are also available. The Pasadena Civic Auditorium is located at 300 E. Green Street in Pasadena. For tickets and information, please call (626) 584-8833 or visit www.pasadenasympphony.org.

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.

Self-Defense Class for Women Sponsored by the Caltech Women's Center. Free and open to students, staff, and faculty. Saturday, November 10, 10 am - 6 pm. Steele House, Carriage House Conference Center. This eight-hour training offers participants the opportunity to learn and rehearse self-defense techniques. Participants will practice these new skills with a fully padded assailant in a variety of simulated attack scenarios. The workshop will also include: assessing dangerous situations responding to being followed diplomatic limit-setting and communication skills. This class will introduce you to skills that can help you avoid, deter, and resist physical and verbal assault. For more information or to register please call ext. 3221. Space is limited.

Please note that Men's Self-Defense Classes will be held in the spring

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 13: "Introduction to Endnote 4.0"

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

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.

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Caltech 40-58
Pasadena, CA 91126