

D. Korta/The California Tech

New administrative changes have dismantled Residence Life in favor of a newly formed "Campus Life" department.

Res. Life Axed in Stud. Aff. Shakeup; Mannion to Head New 'Campus Life'

By KAYTE FISCHER and RYAN OLF

"The Office of Residence Life in Student Affairs has been eliminated," announced Vice President of Student Affairs Margo Marshak to the Caltech community on May 13th. The announcement, stimulated by imminent budget cuts, outlined the first and likely most precipitous phase in the broad restructuring of Student Affairs, which has been in the works since October and the arrival of Marshak.

The crux of the reorganization is twofold and effective as of last Tuesday. First, Director of Residence Life Kim West and Assistant Director Sue Friedman have been

laid off, their positions eliminated along with the greater Residence Life entity. Second, Tom Mannion is in charge of "Campus Life," taking responsibility, in addition to housing and dining, for RA selection and other residual, non-disciplinary Residence Life duties. Furthermore, the MOSH position has been restored to some of its pre-Residence Life glory, with anticipated collaboration between Mannion and Professor Cathy Jurca on both Campus Life policy and student related events.

Smaller but still significant changes have also occurred. Several additional people, both inside and outside the former Residence Life, were laid off, including sev-

eral "central administration support staff" and an administrator from the Health Center. Additional personnel have been shuffled around the Student Affairs organization. Sue Chiarchiaro, former Assistant to the Director of Residence Life, for example, will continue her work for the institute under Tom Mannion.

Departments within Student Affairs, with the creation of a second assistant vice president position, have also been moved around. Erica O'Neal, the new assistant VP, has taken charge of Admissions, Financial Aid, the Registrar, the Women's Center, International Student Programs and will continue to oversee Minority Student Education. Sharyn Slavin Miller will continue as an assistant VP, overseeing the remaining departments, including the Health Center, which has been administratively merged with the Counseling Center under the leadership of Kevin Austin.

The immediate impact of the organizational changes, as far as students are concerned, is expected to be minimal; most of the services that students enjoy are expected to continue.

Both Mannion and Marshak echoed that the new, streamlined Campus Life organization will be a boon to students, "playing a more visible, positive role" in student life. While

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A 'Sacred Service': Orchestra, Glee Club Showcase Medley of Music

By JENNY IOFINOVA and ARTHI SRINIVASAN

The Caltech Glee Clubs and the Caltech Orchestra held their Spring Concert last Friday in Ramo Auditorium and yesterday at the Pasadena Jewish Temple. The concert featured the Sacred Service, a Jewish prayer service by Ernest Bloch, as well as other pieces for both voice and instrument.

The concert opened with "Cantique de Jean Racine" by Gabriel Faure, which featured concertmaster Isaac See '03. This simple choral masterpiece featured solemn harmonies, to create the atmosphere of early church music. The mood then changed abruptly with "Will ye go, Lassie, go?" and "A Jubilant Song," which featured the Caltech Women's Glee Club.

The Caltech Orchestra performed "An Evening Falls" by Gordon Binkerd. The piece was a calming mix of blues and jazz and focused on a children's poem, written by James Stephens, about mothers bringing their children home for the night.

The next piece featured the Caltech Men's Glee Club and Ralph Wells, the baritone, with "Dream" by Donald Caldwell, who also conducted the piece. This piece was written during the time of war in Iraq and the lyrics are a mixture of the phrase "Dona Nobis Pacem," which means "Give us peace" and portions of Walt Whitman's poem, "Song of the Universal." Wells' part featured the Whitman poem, while the chorus sang portions of both in the background.

"The Moldau," Bedrich Smetana, with the Caltech Orchestra conducted by Allen Gross, is part of a

set of symphonic poems, "My Country." The piece is meant to invoke images of the river Moldau, in Czechoslovakia, flowing through the country. The piece opens with the flutes and clarinets, Kirsten Welge, Angela Bowes, Harlan Kadish, Craig Countryman and Jesse Liptrap, with the melody depicting the two sources of the Moldau. The melody then portrays the river as it flows through a forest, past a festival and the Prague Castle.

The melody, which is occasionally very similar to Hatikva, the national anthem of Israel, was chosen by Smetana because of its worldwide familiarity. The piece, at times quiet and at times tumultuous, closed the first half of the performance.

After an intermission, the orchestra, along with both the men's and women's glee clubs performed the Sacred Service by Ernest Bloch. The Sacred Service has five parts, which are filled with a solemn melody. The piece was commissioned in 1929 by a synagogue in San Francisco. In Caltech's interpretation, the Cantor was sung by Wells, the soloist and the Congregation was sung by the unified Men's and Women's Glee Clubs. The piece mixes traditional Jewish chants with a "unifying motive" that appears throughout the piece. Sadly, the service was sung in English and not in the Hebrew it was written in.

The concert was the culmination of numerous weeks of rehearsal by the glee clubs and orchestra, an excellent finish to the year.

Emergency? Experts Stress Preparedness

By MATTHEW WALKER

About 100 area residents were in attendance this past Thursday in Beckman Auditorium, for a program hosted by the Pasadena Police Foundation that informed them on "Preparing for Emergencies: What Everyone Needs to Know." The program brought together a wealth of expertise on emergency preparedness, drawing from all areas of responders to emergencies, such as police, fire and public health.

The evening started out with a series of booths for people to learn about different ways to prepare for emergencies. A representative from the Pasadena Chapter of the Ameri-

can Red Cross had a booth selling emergency essentials such as different types of first aid kits, pocket CPR masks and various other emergency supplies. The Pasadena Fire Department had lots of brochures on fire safety, as well as ones on earthquake safety and preventing falls.

In addition, a variety of home safety equipment was on display, including an escape ladder, smoke detectors and a fire extinguisher. The Girl Scouts had a display with safety tips and the Boy Scouts set up a list of survival essentials; a list including water, food, matches, a first aid kit and a pocket knife.

Before the talk, Pasadena Fire Chief Ernest Mitchell explained

how the Fire Department had been preparing to cope with emergencies since the September 11 attacks and how it reacts to different levels of alertness. There has been much plan writing and extra training, in general, with specific game plans for each security level.

At low levels, the changes are primarily in increasing fire station security and controlling access to the buildings. Firefighters are required to where their identification badges at all times as an extra security measure. At higher alertness levels, the number of people on duty increases, department resources are rearranged and fire department officials meet to discuss the threat and how to meet it.

Dr. Fadi Essmaeel of the Risk, Emergency and Disaster Information Service gave the keynote address, "Civil Society: The Secret Weapon." Essmaeel contended that open debates and majority decisions are the source of democracy's power and that terrorism targets these liberties, saying "terrorism attacks the core of our sociopolitical order." Uniformed services, emphasized Dr. Essmaeel, protect their communities from disasters and attacks, but that building hope is the other important thrust of crisis management.

"The battlefield of terrorism is the mind," he said. Throughout the night, he admonished the audience to be prepared, as that would raise their defenses against terrorist attacks. Essmaeel closed his talk with a few remarks encouraging people to get involved with public readiness through the Be Ready Campaign and the Citizens' Corp, among others. He cited the popular television show "24" as a good display of how different levels of government work together to avert disasters.

Each member of an experts panel gave a brief presentation about different areas of emergency response and preparedness. Acting Pasadena Police Chief Wayne Hiltz explained how the five-level emergency advisory system had been adopted and how it affected the police force. For each of the levels, different parts of the police force accept extra duties to remain extra vigilant against terrorism attacks.

Chief Hiltz added that the local

QUIZ BOWLERS CAP OFF YEAR OF SUCCESSES

PLACE 24TH OVERALL AT UCLA

Three Seniors Depart After Record Season

By CALEB LO

Teams from three nations and eighteen states trekked to UCLA last April 4 and 5 to compete in the National Academic Quiz Tournaments (NAQT) Intercollegiate Championship Tournament (ICT). Squads of up to four college students, including undergraduates and graduate students, faced off to answer questions on topics including "Tess of the D'Urbervilles," the NCAA Frozen Four, the Kamchatka Peninsula and Murphy's Law.

Caltech's Division I team, which consisted of undergraduates Jordan Boyd-Graber '04, Kevin Costello '03, Caleb Lo '03 and Matthew Norman '03, competed against teams consisting of graduate students or those who had played at previous ICTs. After playing a tough seeding schedule, which included four of the eventual top 10 teams, Caltech entered the "power-

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D. Korta/The California Tech

A city specialist in emergency preparedness speaks at last Thursday's "Preparing for Emergencies" seminar in Beckman, where experts outlined game plans for responding to terrorism.

'Buck Stops at Mannion' in New Dept.

Continued from Page 1, Column 3

impelled by budgetary constraints in a frail economy, the ultimate motivation for the changes was to produce an organization that could better serve its mission by being responsive to the student needs of the day. "We're doing everything we can to create a culture where student services personnel are 100% receptive to students," Marshak noted. Henceforth, "the buck stops at Tom Mannion."

In confronting current student issues, such as morale, Mannion is going to have to walk a fine line between the various parties involved, but he thinks he is up to the job. And with broad connections among the students, faculty and administration, Mannion might be

the ideal candidate to, in his own words, "help all three sides explain and promote themselves to each other." Marshak has worked closely with Mannion since arriving in October and believes that Mannion's personalized, student-oriented approach will be welcome among undergraduates.

Graduate students, who had no place within Residence Life, are being brought into the Campus Life fold. Mannion hopes that Blacker RA Fred Romberg, who will assume a half-time yet-to-be-defined "supportive interim role" under Mannion starting June 2, will be able to aid him in establishing a more cohesive graduate student community, as well as act as a bridge between undergraduates and

grads. This will therefore be the last year of Romberg's tenure as Blacker RA.

In order to promote undergraduate self-governance, the disciplinary function of the former Residence Life office is being phased out. Residence Life was originally created in 1990 to relieve the MOSH of disciplinary responsibility and to resolve issues and disputes between students. But since then, the CRC has been created, rendering Residence Life's disciplinary function redundant. Through cooperation with student leaders, Marshak and Mannion hope to return disciplinary control to the CRC and BoC, getting the Student Affairs out of the student law enforcement business all together.

While no students were directly involved in the reorganization planning process, Marshak pointed out that student feedback and opinions were important in her deliberations. Marshak's policy is to consult with students regarding policies that affect them; however, secrecy was necessary in the restructuring proceedings because jobs were on the line. Legally and practically speaking, any decisions regarding layoffs need to be handled with the utmost care and sensitivity. Along these lines, the Institute provides resume and job search assistance to those employees who have been adversely affected by the restructuring.

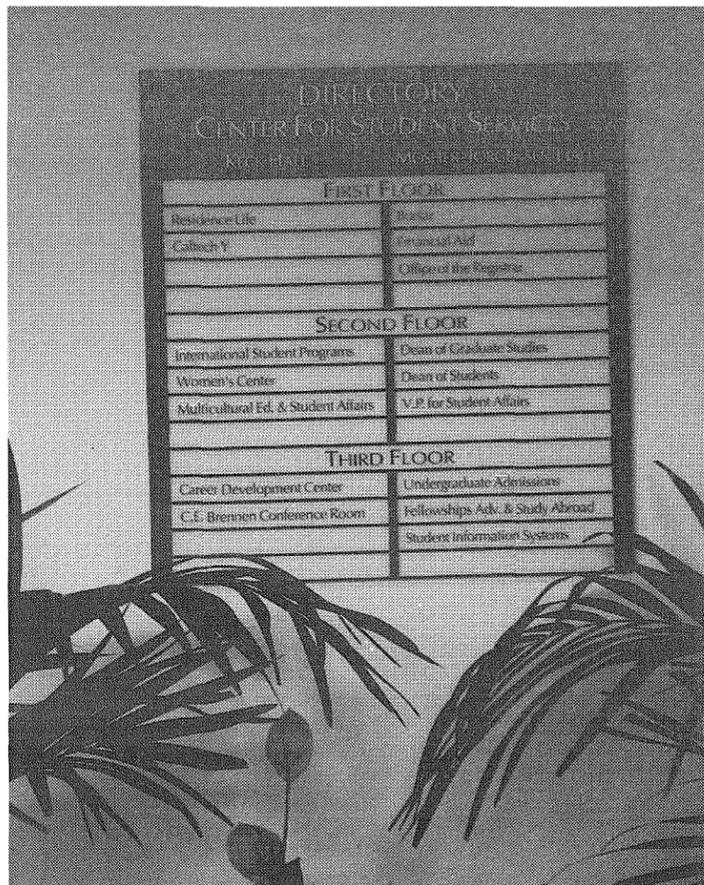
"This is not the end of the changes," warns Marshak, "although we don't expect so many to

happen at once in the future." Indeed, changes are nothing new in the Student Affairs organization. "Over 35 years, I've seen change almost every year," said Stan Borodinsky, a Student Affairs administrator. The existing Student Affairs organization is actually the largest it's ever been and the elimination of Residence Life actually makes Student Affairs more like it used to be. The ideas behind the current reorganization aren't new; the visiting committee that suggested hiring a full time, non-faculty VP of Student Affairs actually suggested many of the current changes last year.

Marshak and Mannion declined to comment on any specific dollar amount savings due to the layoffs, but, as Mannion pointed out, "there are some clear savings in the elimination of some positions." The

Health Center and Counseling Center, for example, have been working together for the past 25 years, but had duplicate administrative assistants. By combining the two centers, Student Affairs administrators expect greater effectiveness for less money.

It is not yet known specifically what kind of budget cut Student Affairs is going to receive, but Marshak estimates that even in the shadow of this most recent wave of cutbacks, there is a long way to go. The hope is that with strategic downsizing and a more efficient allocation of resources, Student Affairs will be able to meet its budgetary constraints while retaining its ability to focus on priorities such as producing better recruiting materials and automating the registrar's office.



E. Adams/The California Tech

The Center for Student Services is extending its hours to accommodate students' off-busy schedules outside lunch hour.

Student Affairs Extends Hours to Include Lunch

By IRAM PARVEEN-BILAL

Assistant Vice President of Student Affairs Sharyn Miller's announcement the week before last that Student Affairs is extending its hours to include the lunch hour from noon to one p.m. met with optimism among students happy that one of the Student-Faculty Conference's chief recommendations culminated in real change.

Barbara Green, assistant dean and member of the Workload and Student Morale committee at the this year's SFC, communicated that the idea had been suggested in the past a number of times but was rarely seriously considered. She further said that the committee's survey results showed that "a lot of students were interested in making use of the student affairs' offices during noon.

The change affects the offices of Athletics, Physical Education and Recreation, Bursar, Career Development Center, Dean of Students, Financial Aid, Graduate Studies, International Student Programs, Minority Student Education, Registrar, Residence Life and Master of Student Houses, Undergraduate Admissions, Women's Center and the Caltech Y.

"Students will have more opportunities this way to see us," said Green. "The reason this came into being was because classes in the day and then sports in the evening were quoted as the reason for no time for students to get office work

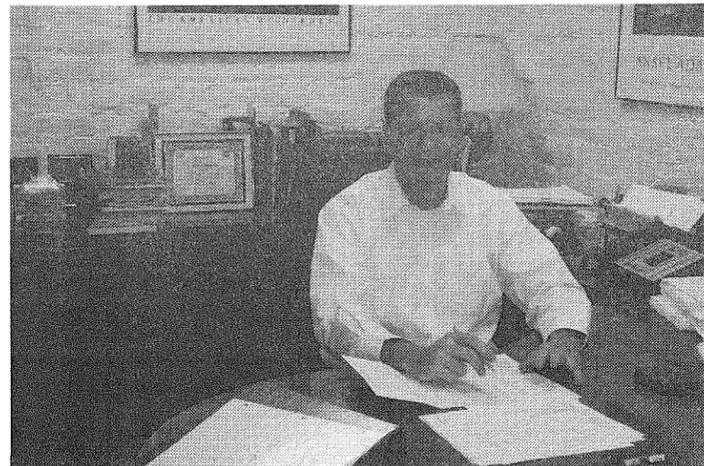
done."

The fact that the offices are open does not mean that there will always be a professional staff member to help students. But it does mean that there will always be support staff to help make appointments, deposition of documents, drop add card and so on and so forth.

"We are happy to make this change and respond to the request of students," said Green. "Our support staff will stagger their lunch times and help make this possible."

As far as the student front is concerned, Timothy Boyd '04 applauded the change. "Since nothing is supposed to be scheduled during lunch," he said, "students are usually free. I think having offices open during this time will greatly benefit the students because students do not usually have much time during regular hours to take care of their business."

Michael Lammers '04 was more hesitant, though, pointing to the limited likelihood that certain administrators would be present. "We can't expect Margo to give up her lunch," he said. "Lunch time is one of those critical time periods for a person at her level of administration; she has a lot of meetings during that time period. But overall it's a good thing as long as the individuals working there are not being abused as a result."



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In what Student Affairs Vice President Margo Marshak termed an effort to be "100% receptive to students," Campus Auxiliary and Business Services Director Tom Mannion has taken over the reigns of the new Campus Life department, replacing the defunct Residence Life.

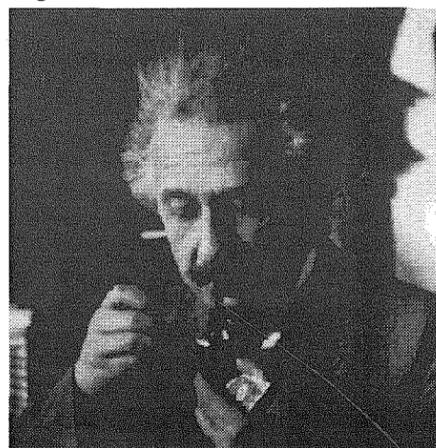
Einstein Project Completes 900-work Web Catalogue

By MARK WHEELER

More than 900 scientific and non-scientific documents of one of the most influential intellects in the modern era, Albert Einstein, will soon be available online for the first time.

The Einstein Archives Online Web site, at <http://www.alberteinstein.info>, will also be accompanied by an extensive database of archival information. It was launched today during a daylong symposium on his life and work held at the American Museum of Natural History in New York.

The new Web site is the result of an ambitious cooperative effort between the Albert Einstein Archives at the Hebrew University of Jerusalem and the Einstein Papers Project at the California Institute of Technology. It will enable access to some 3,000 high-quality digitized images. Thirty-nine documents will also be provided in PDF format as they appear in *The Collected Papers of Albert Einstein*, published in German by Princeton University Press, with historical and scientific annotations in English; some of the documents are accompanied by English translations.



Courtesy of the World Wide Web

A newly available compilation of Albert Einstein's work promises to reveal the mysteries of his life of research.

An extensive archival database and finding aid will allow for the direct searching and browsing of more than 40,000 records of Einstein and Einstein-related documents. These concern his scientific and nonscientific writings, his professional and personal correspondence, notebooks, travel diaries, personal documents, and third-party items.

The Web site was developed in collaboration with the Information Technology and Photo-Reprography Departments of the Hebrew University's Jewish National & University Library (JNUL), the David and Fela Shapell Digitization Project at the JNUL, and with Princeton University Press. The archival database will present records for all items that have been edited and annotated by scholars, and that have appeared since 1987 in *The Collected Papers*. These will include some 500 items that were not part of the original collection, but that were uncovered during the past 25 years.

The eight volumes that are available so far contain Einstein's writings and correspondence from his youth to age 40. They include his major papers on the theory of special relativity, general relativity, the quantum theory of light and matter, as well as a wealth of lesser-known contributions to many aspects of science, education, international reconciliation, Zionism, and pacifism.

Einstein's personal papers were bequeathed to the Hebrew University in his last will and testament of 1950. The Albert Einstein Archives has been housed at the Hebrew University's JNUL since 1982.

The Einstein Papers Project is a multidisciplinary research and editorial team en-

gaged in the collection, selection, and scholarly annotation of *The Collected Papers*, an edition of 25 planned volumes of Einstein's writings and correspondence.

The Hebrew University of Jerusalem was envisaged by its founders as a "university of the Jewish people." Its foundation stone was laid in 1918, and its doors opened in 1925. Today, its student body totals around 23,000 and its tenured academic faculty numbers 1,200. The university is Israel's leading academic center for research and postgraduate study.

The Jewish National & University Library is the central library of the Hebrew University and the national library of the Jewish people and the State of Israel. Founded in 1892 as a world center for the preservation of books relating to Jewish thought and culture, it assumed the additional functions of a general university library in 1920.

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Problems of the Honor Code: Self-Preservation vs. Morals

By TED JOU

I wasted a column last week on the somewhat trivial subject of donuts, so this week I will tackle a more interesting question, "What is wrong with the honor system?"

The easy answer and the one that I often hear is, "Nothing is wrong with the honor system—at least, nothing is more wrong than it was before." I tend to disagree. I think there are some major problems with the honor system and that if we don't address them soon, they will begin to threaten our way of life.

Like most of our student-governance issues, the current honor system problems have their roots in fateful choices made by students of the past. Once upon a time, the honor system was simply an informal code of conduct. In the words of the '70-'71 *little t* editors, "Because one of the main benefits of the Honor System is a vast freedom from rules, attempts to state it explicitly are futile. Just respect the rights of others and expect them to respect yours."

However, by the early '70s, a phrase had already begun circulating through the undergraduate population that would change the honor system forever. That phrase was "unfair advantage" and by 1980, our indefinable honor code had an explicit characterization, "No one shall take unfair advantage of any member of the Caltech community."

Armed with a universal rule they could apply to a wide variety of situations, the Board of Control of the 1970s began to hear more cases of a non-academic nature. The honor system had always been meant to apply to all of student conduct, but before the concept of "unfair advantage," the BoC had a difficult time dealing with any issues more complex than simple cheating or stealing.

However, the BoC was not prepared for the increased caseload. In 1970, a BoC Rep wrote to the *Tech*, "The Board finds itself faced with an increased number of such 'violations' and therefore with the dilemma of either ignoring them or having its efficiency threatened by having to call weekly case meetings."

Over time, the BoC dealt with fewer and fewer of the interpersonal issues and those neglected responsibilities fell to the dean's office. Unfortunately, when issues go to administrators, the spirit of self-governance is lost and most students who find themselves in front of the dean for stealing Daihatsus or pirating music feel more like they are being disciplined and less like they are part of an honor system.

We recently tried to put students back into the process by creating the CRC, but that innovation has been creating problems of its own. The CRC has created an atmosphere where students are encouraged to turn their friends in to escape punishment. The BoC encourages this as well, but the problem is worse with the CRC because while most students can rationalize turning in students to the BoC for their own good, ratting out your friends to the CRC usually comes from an

"everyone for themselves" attitude.

Our honor system is being clouded by disciplinary motives and we are rapidly losing sight of the community atmosphere the honor system is supposed to foster. To get an idea of how that would work, we can look at how things were before "unfair advantage" and long before the CRC.

I've been looking a lot at 1970, so let's take another incident from that year. On January 16, 1970, a group of Pageboys attempted to shower the *Tech* editor after he failed to print one of their letters. In the process, they broke his umbrella. This incident was not handled by the BoC, the Deans or the MOSH; it came before the IHC. After interviewing many witnesses, the presidents of the seven houses

voted unanimously to pass a resolution regarding showering and to fine the aggressors \$7.50, the cost of the umbrella.

Nowadays, disciplinary issues of that nature never come before the IHC and I'm sure many would question the house presidents' authority to impose

a fine on individual students. However, I think this is exactly the sort of thing that should be happening more often.

In the 1892 catalog for Throop Polytechnic Institute it was written, "The discipline of the institution will constantly keep in mind the development of self-governing citizens, self-respecting, law-abiding men and women. The helpfulness of the ever-watchful friend will take the place of the educational police officer."

When we place too much power in the hands of the BoC, the CRC or in Student Affairs, we are choosing police officers over watchful friends. No one group should have a monopoly on student discipline. It is sometimes more effective to hear things from your friends than from an administrator.

It makes sense that all suspected academic cheating should go to the BoC, but do all other instances of unfair advantage need to be reported? If something can be resolved between friends, shouldn't they do so? If a problem can stay within an alley, a house or between two houses, is there any reason for other people to get involved?

We may have come up with an all-encompassing phrase to describe our honor code, but that doesn't mean we need a monolithic system to deal with violations. The strength of an honor system comes from each individual policing himself and having the authority to watch over his peers. We have forgotten this crucial aspect of our honor system and it is weakening our student community.

The BoC and the CRC are long overdue to take a careful look at their policies and procedures, but most importantly, every member of the Caltech community needs to look more carefully at themselves and those around them. Maintaining the honor system has never been easy, but the more people that are helping, the easier it will be.

Student Affairs, Communication, Student Credibility Loss, X-Men

By TOM FLETCHER

Adjusting to Changes

No doubt the letter in your mailbox has informed you: Student Affairs had to do some major restructuring to meet the demands of a tightened budget. I have to be honest; I'm not sure what the consequences or ramifications of this will be. My instinctive reaction is that any cuts to student affairs are bad, as I am sure most will agree. Unfortunately, the reality is that Caltech lost a lot of money over the last few years and now it is time for the consequences.

One thing I am happy about is that Margo Marshak made the effort to inform the students with a letter, as opposed to letting us hear about through rumors and whispers like we used to. This particular practice of doing a better job of informing students is a very positive development in our dealings with the administration.

No matter what positive spin can be put on things, the transition period over the next few months may be stressful. I ask that we all work hard to help bring Tom Mannion and Erica O'Neal into the loop to help shorten the time they spend learning how to do their new jobs. From what I hear, the International Student Office has also been shaken up. I will be meeting with a group of international students to try and address their concerns. Hopefully, we can all pitch in and try and help them fill in any gaps left due to their dismissals. In the meantime, let's see how things go. If you have any feedback on how these changes are affecting you, please send them to me and we'll see what we can do about them.

The Need for Modern Institutions

We continue to edit the language of the committee oversight resolution with the help of some of the members of the IHC. At a few points, people have asked why these changes are needed. I'd like to address them, briefly, but hopefully completely. The way the world

works is changing. Enron, the International Monetary Fund, Arthur Anderson and countless other major institutions have come under criticism for their lack of transparency. In the cases of some of them, their institution has been crippled or destroyed by the abuses and failures conducted behind closed doors. The most alarming case, the complete collapse of Barings Bank, Britain's oldest bank, was caused by one agent. One trader managed to create a debt of \$27 billion for a company with \$615 million in assets. This was only possible because the actions of the trader were not visible to the rest of the company or its investors and, in the past, the trader was not held accountable for the losses he racked up.

The lesson of these scandals is that institutions can be destroyed from within by their own agents abusing their office or neglecting their duties. In the case of the student body, we have lost nearly every shred of credibility we have when it comes to dealing with the administration and faculty over policy when we don't bother to show up for the meetings in the first place. The committee that is investigating the need for a dean of undergraduate education has four students on it and met last week. Two of the student representatives were there. This, a crucial committee that will be reporting its recommendations in a few weeks and we the students could not get our act together enough to turn out. If the faculty decide to not have a dean of undergraduate education, how much of a right do we have to complain?

Business leaders, governments, everyone is beginning to understand the institutional transformation that is necessary to remain viable in this changing world. Curiously, Caltech lags behind. Faculty committees don't even have minutes taken, let alone required attendance. In the same way that our paper registration system is an embarrassing anachronism, our self-governance practices are decades out of date.

And that is why we need to institute mea-

Continued on Page 5, Column 4

Admin. Reorganization Clarified

In Wake of Student Affairs' Reorganization, not All Clear

By MARGO MARSHAK

I have heard from a number of you about the recent Student Affairs' reorganization as it pertains to services for international students. I welcome your feedback and I hope that this memorandum will respond to your concerns.

First, let me assure you that by merging the Student Affairs' Office of International Programs (ISP) with Caltech's Office of International Scholar Services (ISS), we are, in fact, increasing significantly the personnel dedicated to meeting the needs of our international students. In fact, many colleges and universities have a unified international office that serves both students and scholars, as we will have now. It would be inconceivable to me to downgrade or eliminate these vital services. The reorganization is a prudent response to concerns about Caltech's budget.

Jim Endrizzi, Tara Tram and Fernando Contreras will remain in the ISP offices in

the Student Services Building. Supporting them will be the staff members of ISS, including Margie Gooding, Dan Smith, Ilana Smith, Sandy Karhu, Ayanna Campbell, Rene Herbozo and Toni Itano. As Head of ISS, Margie Gooding brings to her broadened responsibilities extensive experience in the administration of international student programs. Moreover, ISP will continue to provide assistance when international students confront cultural and personal issues. It will continue to offer programs and it will provide timely and accurate immigration advising.

Please help us to make this transition successful. By working together in a collegial spirit we can assure that the needs of Caltech's large international community are fully met. I welcome a continuing dialogue on this and other important issues that concern Caltech students.

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Student Affairs is pleased to announce that the following offices will be open from noon to 1:00 p.m. every weekday during the academic year. This change was prompted by the comments from undergraduates on a survey conducted in preparation for the Student Faculty Conference. Many students indicated that they are free during this time and would like to avail themselves of our services during lunch. We are delighted to be able to respond to this student request.

The Offices that will be open during lunch include:

- Athletics, Physical Education and Recreation
- Bursar's Office
- Career Development Center
- Dean of Students
- Financial Aid
- Graduate Studies
- International Student Programs
- Minority Student Education
- Registrar
- Residence Life and Master of Student Houses
- Undergraduate Admissions
- Women's Center
- Caltech Y

Athenaeum Tennis Ladder. All Athenaeum members and their families are invited to join the Athenaeum's managed singles and doubles tennis ladders. Once per month, ladder managers will post matches to be completed by the end of the month. Players contact each other to arrange mutually agreeable date and time to play. Matches are formed between players within a few ladder rungs of one another. The ladder includes both men and women and all levels of play are welcome. For doubles play, one team member must be a current Athenaeum member. Each year trophies will be awarded. Signups welcome at any time. For more information, contact Rich Dekany at rgd@astro.caltech.edu. Build Bridges at your Leisure

Most people equate leisure with recreation and amusement. However, leisure is simply defined as free time that one can spend as one pleases, with no requirement for amusement or entertainment. How we should choose to spend our leisure time has been under philosophical debate at least as far back as Aristotle. In his Ethics, he wrote that leisure is the state of life necessary to achieve happiness and happiness is the goal of life. Aristotle's idea was that the best use of leisure time was in contemplation in order to transcend one's own human nature, but without neglect of practical human virtue. Leisure time and happiness may seem in short supply among Caltech students, but that is the very reason we should use leisure time carefully. Using your leisure time for community service may not quite reach

Aristotle's standards of transcending human nature, but I doubt he would be opposed to it.

Building Bridges is a student run club founded specifically for doing community service. Whether you want to do community service in order to achieve fulfillment in life or simply to help you get into graduate or professional school, Building Bridges can use your help. Perhaps your worldview has broadened and you realize that there a lot of people whose lives are worse than your own, unlikely as that may seem. Perhaps you need community service hours to put on your transfer application or to fulfill a court order. We have programs to donate gifts to children all over the world, food and clothes drives to benefit the homeless and tutoring and mentoring programs to benefit disadvantaged students. Even a few hours a month makes a difference and is enough to put on your resume. You can even get paid if you have federal work study.

For more information visit <http://www.its.caltech.edu/~bbridges/race.html> or email bb-excomm@its.caltech.edu.

Caltech Opera Club is meeting Thursday, May 22, 12-1 p.m. in the Brennen Conference Room, 3rd Floor of the Center for Student Services, 414 Holliston Ave. The topic will be Mozart's Don Giovanni and the guest speaker will be Kathy Cross. Please join us and discover how Mozart brilliantly balances dark drama with humor through beautiful music. Bring your lunch and friends.

Offices Open. Student Affairs is pleased to announce that the following offices will be open from noon to 1:00 p.m. every weekday during the academic year. This change was prompted by the comments from undergraduates on a survey conducted in preparation for the Student Faculty Conference. Many students indicated that they are free during this time and would like to avail themselves of our services during lunch. We are delighted to be able to respond to this student request.

Women's Wellness Series: Springtime Stretch
Date: May 22, 2003
Time: 12:00pm - 1:00pm
Location: Carriage House/Steele House, Pool area
4 spaces left

Using stretches from Tai Chi Chuan, Yoga, Dance & Body Education this workshop will help you learn to take the time to feel healthier while teaching you useful skills you can carry over into your daily life. *Improve your sports performance. * Move more efficiently through your job & study demands. * Improve your posture. * Alleviate aches & pains. * Learn to relax and gain energy. * Use techniques tailored to you.

ASCIT Minutes.

May 15th, 2003, 11:09 PM, SAC 33.
Present: Tom Fletcher, Kim Hiscox, Kathryn Hsu, Galen Loram, Jeremy Pitts, Anna Sczaniecka andrea Vasconcellos, & Corinna Zygourakis.
Guests: Iram Bilal, Natalia Deligne, Barrett Heyneman, Aaron Esser-Kahn, Jessie Kneeland, Michael Lammers, Ruxandra Paun, Jason Schadewald, Joseph Wasem, & Others.

- Agenda
- 1. Call to Order
- 2. Student Affairs Decision -- no objections were voiced by the students present.
- 3. Committee Representation Resolution Discussion:

Yelling, scratching and biting have been censored

Natalia was concerned that long reports would discourage students from signing up for committees in the first place. Tom responded by saying that the reports would be short, consisting of the names of the students who attended as well as a couple sentences summarizing the topics discussed at the meeting. Tom also added that this resolution would ensure that only those students who genuinely care about the committees would sign-up. Harris said that short reports would encourage misinformation and rumors on an already misinformed campus. Tom agreed that this is a valid concern. Jessie was displeased that BoD felt the need to "baby-sit" student representatives. Tom said that he resents that term "baby-sitting" and the BoD only wishes to hold representatives accountable for their actions. Kathryn and Galen agreed that was necessary -- over half of the students serving on committees with them did not attend regularly. Jeremy said that he would like to see the resolution go to the faculty board. Tom thinks that this would take too long. Another student was concerned that this resolution would demonstrate to the administration that students don't attend committee meetings. This is already the case; At the Student Leaders Dinner, President Baltimore said that undergraduates are underrepresented because students do not regularly attend committee meetings.

4. Ruxandra wanted to throw a party this weekend for the entire campus and requested funding. The BoD was reluctant because this was a privately organized party. However, Kim said that she would be happy to work with Ruxandra to put together a campus-wide party sometime in the future. Ruxandra agreed that this would be the best idea.

5. Dabney requested \$100 for Metal Night. Vote: 7-0-0, approved.

6. OASIS did not file for club funding this year, but they are requested \$200 for their annual cultural event on June 6th. Vote: 7-0-0, approved. The money will come from the Reserve Club Fund.

7. Iram requested funding for her public speaking club. She wants to hold a debate on May 28th in Baxter Lecture Hall and she needs money for food and drinks. Tom thinks more people would attend if she held this event on the Olive Walk. He also thinks

that she should also talk to the MoSH since this is a student/faculty event. Iram is requesting \$30. Vote: 7-0-0, approved. The money will come from the Reserve Club Fund.

8. Aaron wants to buy comics for the Coffeehouse. He can get a 33% discount from the Comics Factory. He requested \$200, but the BoD asked him to return with a list of comics that he intends to purchase. He adds that work is proceeding smoothly on the Fishing Quarterly. Tom and Aaron agree that adding bar-codes to the comics is a good idea; This way they can be checked out like ASCIT DVDs.

9. Kathryn wants to take Prof. Rob Phillips out to lunch with three other students. Vote: 7-0-0, approved.

10. Officer Reports

Tom announced that he almost has his Excomm: Liz Feltnagle (Chair), Abe Fetterman, Greta Jo, Dima Kamalov, Gunnar Ristroph, Ryan Samson, Richard Spjut and no one from Fleming yet. Vote: 6-0-1, approved. He is working on an ASCIT poster for Alumni Weekend. The theme will be T&A -- Transparency and Accountability. Tom would like everyone to know that he misspelled transparency.

Galen talked to the humanities faculty and had GPS members meet with GPS. The Honor Code Open-Mic Discussion has

been rescheduled for sometime during the next 2-3 weeks. The BoC's ferocious crushing of souls is proceeding smoothly.

Jeremy says that Tammy Ma has been appointed to the Parking Committee with Michael Quinn as an alternate. Vote: 7-0-0, approved.

Joanna can't use the ASCIT credit card yet, because it has Janet's name on it.

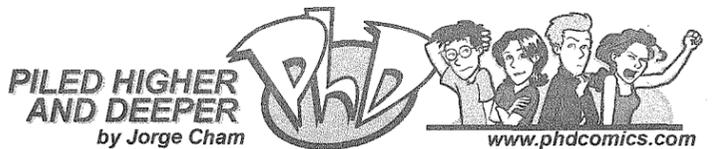
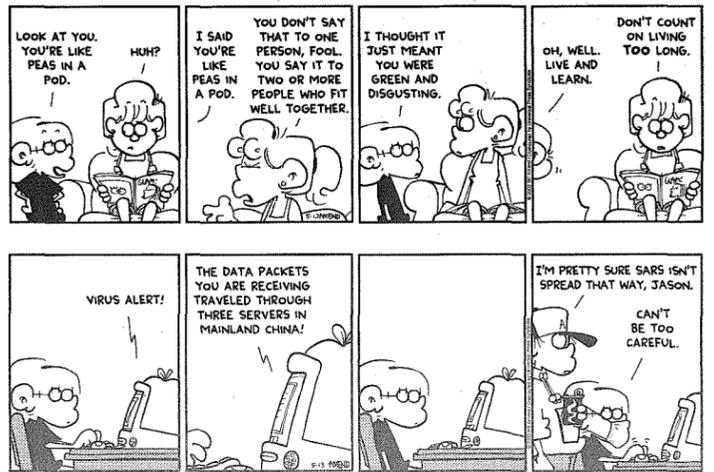
Kathryn says that not all three students who signed up for the Library Committee were selected. The ARC will be doing interviews for Library-Version 2.0 and the Study Abroad, Curriculum, Core Curriculum Steering, Academic Policies and Educational Outreach committees were confirmed. The BoD will hold Institute Art Committee interviews.

Kim says that tickets for ASCIT Formal will cost \$25 for ASCIT members and \$35 for non-members. There will be appetizers, drinks and dessert but dinner will not be provided. Kim requests \$25.07 for water balloons. Vote: 7-0-0, approved.

Andrea says that interviews for publications are now complete. Neda Afsarmanesh and Ye Li have decided to become co-editors of the Totem.

Meeting adjourned at 12:28 AM
Respectfully Submitted,
Anna Sczaniecka
ASCIT Secretary

FoxTrot by Bill Amend



Letters: ISP Director, New Fishing Magazine

International Director
Dear editors,

On Tuesday May 13, the position of Director of International Student Programs was eliminated and the current director, Parandeh Kia, dismissed. This is a grave loss to international students and to the Caltech community as a whole. According to Vice President for Student Affairs, Margo Marshak, the remaining two staff of ISP will be moved to Human Resources. We fear that these actions will amount to the destruction of ISP.

ISP is widely regarded as an effective and well-run organization. It manages students' immigration issues and programs social activities. By losing ISP, we would lose a powerful voice to advocate international students' concerns. Moreover, we would lose what makes ISP unique among similar programs at other universities: ISP is a place where students build friendships and a home they turn to in times of need.

Parandeh Kia has devoted more than ten years of her life to create ISP. Her love for the community she has forged is evident to all. While her dismissal and the dismantling of the ISP were never explicitly announced and many details are still hazy, the news has spread quickly. Through countless emails, letters and discussions, Caltech undergraduates, graduates, post-docs, staff, administrators and faculty have made it clear that Parandeh Kia and the ISP enjoy their support and admiration.

ISP does invaluable work and

should be preserved. The position of Director of ISP should be retained. We should apologize to Parandeh and ask her to take back the job she has performed so well. Yours truly,

Sidharth Jaggi, George Maltezos, Ben Toner, Daniel Wagenaar.

Fishing Quarterly

Dear Esteemed Reader of the Tech and Fishing Quarterly,

Here at the Fishing Quarterly, our dream of providing you with a funny and unique magazine is in danger. The Fishing Quarterly offices, the heart of our operation, may soon be knocked down and replaced by a community center complete with an educational center, amusement park and orphanage or something terrible, we don't know. Old Man Garbuckle, our self-proclaimed evil arch-nemesis and publisher of the popular magazine PeopleÆ is threatening to buy our offices from the bank. Unfortunately, it turns out that there is a clause in our contract allowing any crazy person with a lot of money or something to purchase our offices "for no apparent reason (Page 238, line 17)."

You may ask yourself iHow does this affect me? Look, it doesn't matter. Our friends in the Caltech bands Not Enough Gun and Parking in Rear are putting on a kick-ass rock show in our benefit on Friday, May 23, 8:00 p.m. in Dabney house courtyard. Mr. Garbuckle can only be stopped with the awesome

power of \$7629.29. That's so much money! How are we ever going to get that much money?!!

Well, to start with we will offer goods and services, such as T-shirts, kisses and mortgage consolidation. T-shirts will be \$8, featuring famous work by our staff artist Peter Picasso and legible lettering. Kisses will be distributed by our professional team of lip acrobats, including Goldie Hawn, Kurt Russell and Elizabeth Taylor. The price scale is \$1 for a peck, \$2 for a closed-mouth smack-on-the-lips and anything beyond that is negotiable between the kisser and the kissee—let's just say \$7629.29 goes a long way. In addition, there will be a money trough for large, unwieldy donations and the editor will be wearing a g-string for quick-and-easy small ones.

Please come to Dabney's Metal Night and check out the great bands, great food and great times. We promise you will not be disappointed. It's completely free thanks to generous donations by ASCIT. So come on down and have good time and give us some money.

Love,
Jimmy Corrigan, staff-writer and Sam Thomsen, editor and chief

Incorrect Photo

Dear editors,
I've seen a mistake in your paper of May 12. On page 3 under the title "ASCIT TEACHING AWARDS 2003," the picture of Dr. Hirai is not right. The one shown there is Dr. Hirataja, who teaches Intermediate Japanese at Caltech.
Sincerely,
Xiangyun Wang

The Caltech Legacy: William Pierce; From Physics 1a to *The Turner Diaries*

By LIBIN ZHANG

William Pierce is not a household name, but he has affected world events as much as anyone else associated with Caltech. Pierce is the author of *The Turner Diaries*, which indirectly influenced Timothy McVeigh's decision to bomb the Oklahoma City federal building in 1995.

William Pierce was born on September 11, 1933, in Atlanta, Georgia. He spent most of his youth in the South, receiving a Bachelor's Degree in Physics in 1951 from Rice University. He worked at Los Alamos Scientific Laboratory before attending graduate school, first at Caltech and then the University of Colorado in Boulder. The latter awarded him a physics doctorate in 1962. He soon lost interest in science and joined various white supremacist political organizations, eventually forming his own splinter group the National Alliance in 1974. Pierce also founded the Cosmotheist Community Church to achieve tax-exempt status.

From 1975 to 1978, the National Alliance weekly tabloid *Attack!* serialized what would become *The Turner Diaries*, a fictional account of Earl Turner, a member of an underground white supremacist organization that would begin a race war and conquer North America. Pierce's book influenced many racially-motivated terrorist events in the world, the most famous of which was the bombing of the Alfred P Murrah Federal Building in Oklahoma City on 19 April 1995 which killed 168 people. Timothy McVeigh purchased the book through a gun-show circuit a few years earlier. In 1989, Pierce completed his second novel, *Hunter*, which features graphic descriptions of assassinations of interracial couples, Jews and politicians. He deliberately crafted *Hunter* to motivate real-life assassins and it has

inspired several real acts of racial terror.

The 1990s saw the National Alliance diversifying its propaganda tools, including publishing audio cassettes, broadcasting on several AM radio stations, printing a comic book, staging public rallies and harnessing the power of the Internet. The organization purchased a record label and now dominates the white power youth music scene. Pierce has also established closer connections with the British National Party and the German neo-Nazi party.

William Pierce has the habit of referring to Caltech during his American Dissident Voices radio broadcasts. Pierce seems to have pleasant memories of Caltech as a bastion of the white majority in a region populated by minority ethnic groups:

"Two years ago I visited Pasadena, where I had been a physics student at Caltech long ago, before I worked in [JPL]. The Caltech campus is still a pleasant and civilized place and students there still have an opportunity to get the best possible education. Democracy has done a lot less damage to Caltech than it has to other schools. But one can drive southwest on the freeway from Pasadena for just a few minutes and find oneself in the truly horrifying Third World jungle that is south-central Los Angeles.

And there are similar situations all over the United States. We can build hydrogen bombs, we can send robots to Mars ... but we cannot maintain even a semblance of civilization in our cities. Many of our cities still contain enormously expensive glass-and-steel towers and all sorts of financial power flows through them ... but they are not civilized places. Just look at the swarms of sub-humanity on the sidewalks and in the bus and train stations. If the police presence is removed for a day, the jungle will

reassert itself. What a contrast with the Caltech campus in Pasadena!" (ADV September 13 1997).

He reiterated the same point a few years later: "I took a trip out to Los Angeles not so long ago -- the first time I'd been there since I was a graduate student at Caltech back in the 1950s—and let me tell you, if you like diversity, Los Angeles is the place for you to be. What a cesspit of diversity!" (ADV March 31, 2001).

Pierce also bemoaned the increasing racial diversity at universities and colleges since his student days: "When I was a student, not only an undergraduate in Texas but also a graduate student in Colorado and in California, the universities were White. The only really noticeable minority anywhere was the Jewish minority. At Caltech there was a tiny sprinkling of Asians. I can't remember any Blacks." (ADV May 13 2000). To him, the schools are no longer proud or European.

William Pierce died at age 68 from cancer on July 23, 2002.

Career Center Meeting, Consulting the Comics

Continued from Page 3, Column 5

sures of accountability and transparency. The faculty and the administration have erred egregiously in the past, but if those errors occurred because we weren't there giving our input, the ground we stand on when we complain is somewhere between quicksand and marshland. If we want to sit at the same table as the big boys, we absolutely must hold up our end of the bargain. Otherwise, we'll stay right where are, stuck in the playpen, forced to shit our own pants when we want the grown-ups attention.

Whom I Met With This Week

I ran into a number of people this week. One of the most important things I did was participate in a focus group with the Career Development Center on a future leadership certificate program. The point of the program would be to allow interested students to develop their leadership skills at a very high level for both success upon graduating and to make sure that Caltech has

competent and educated student leaders. I'm really looking forward to how this progresses and encourage you all to keep your ears open.

I also got a chance to meet with Dean Green about the outcome of the Student Faculty Conference. Reports are forthcoming and we're working on identifying ways to address the concerns raised. The day before I met with Margo Marshak. She told me to expect a big announcement—they don't get much bigger than a complete re-organization of student affairs! Everyone is getting ready for the Faculty Board meeting on May 27. Margo will be reporting on Student Affairs, the dean of undergraduate education committee should be reporting, as should the housing committee, always important. A number of catalog changes will also be made at this meeting, as well as the possibility of finding out the numbers and demographics of the incoming class. Like I said, a big meeting!

Moment of Zen

We're working on getting more new comics in at the Coffeehouse. I must admit, watching *X-Men 2* made me go buy some myself and those new *X-Men* comics are quite entertaining! Anyway, if you have recommendations for what you'd like to see in the Coffeehouse, talk to our comic-buying resident comedian/extortionist, Aaron Esser-Kahn. We're looking to get them by next week, so tell him in the next couple of days!

Peace,

Tom Fletcher



Courtesy of L. Zhang

William Pierce was not your typical Caltech student.

Question of the Week

Are the administrative changes for the better?



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Caltech: Like a Cake of Many Layers

How the Layers—Students, Faculty and Administrators—Interact

By JEAN-PAUL REVEL

When the dean's office moved from Parsons Gates to Mosher Jorgensen last summer, I kept my parking spot on the other end of campus—in fact, the same spot I had when all of my time was spent in biology. Having to walk to work forces me to have a little bit of exercise, not as much as I presumably should or even that I have when I go to my Biology office; it is two floors below ground and I make a point to walk the stairs.

My daily walk across the campus is usually before eight and at that time, besides a few lone souls like me hurrying to their offices and the Falun Gong people lined up under the overhang of the Beckman Auditorium roof, the only others I come across in numbers are the physical plant people, many zipping about in their carts, a few mowing the lawn or blowing the leaves off the walks. We know each other by sight and sometimes even say hello.

Seeing just the Physical Plant people on my trek across campus reminds me that the Institute can be looked at as a cake. It consists of layers which are stacked, but are separate, one might almost say independent of each other. There is the Caltech of the Carpenters, Plumbers, Painters and Electricians and that of the Gardening Staff. There is the Caltech of Undergraduates who complain about the grounds people mowing the lawns at what for students up till four a.m. with their homework—what

else?—is an unreasonable hour.

There is also the layer of the Graduate Students, which the Undergraduates see only in their incarnation as TAs, that of Professors who may not always notice much about the Institute except as a the place to solve the problems of quantum cryptography and teletransportation or decipher the genetic basis of behavior.

And then there is the Caltech of Administrators, dreaming of buildings and support for the rest of us and all kinds of other things like budgets and whatnot, kitchens, big machines, huge magnets, humongous telescopes and master plans. Of course there are points of contact between all of these layers, but to a surprising extent there seems to be a lack of intimate knowledge or even, sometimes, understanding.

In the last few days for example there has been a major reorganization of Student Affairs, the administrative entity which takes care of most of the student's non academic needs and of quite a few academic ones also, except for the actual teaching. As part of this reorganization Residence Life as we all know it for many years has been phased out. Kim West, the Director for many years and Sue Friedman, the Assistant Director have lost their positions.

There has also been a major reorganization of the International Student Programs Office with Parandeh Kia's position being eliminated. These are changes that

are going to concern all the students and particularly impact very strongly specific subpopulations of both graduate and undergraduate students. Perhaps not surprisingly, the effects right now are pretty much limited to these strata. The affected students are concerned, but generally appear confident that their needs will be looked after in some other ways. Some even look forward to the "other ways." The rest of Caltech has not yet noticed, so far as I can tell.

"The institute [is like] a cake. It consists of layers which are stacked, but separate."

Yet those of us who have worked for years with Kim, Sue Friedman and Parandeh Kia, will very much feel their absence. They were people with whom we interacted daily and the familiarity that developed over shared problems, has bred if not friendships in a deep emotional sense, at least collegiality and mutual ease.

It is hard not to empathize with what one can imagine of their upset. It is hard not to entertain a sense of dread for their future, concern for the emptiness that losing their jobs must leave them with. It is hard, yet there is little that can be said besides the obvious. One could thank them for the help over the years, the

cooperation. It is unlikely, of course, that such expressions will really matter to them at this point. Later perhaps, but not at this immediate moment. Anything one can say sounds kind of hollow but there is so little that can be offered. Pain, like joy is felt inside each of us and what shows publicly is a pretty incomplete rendering of the lump that swells in our throats. I and I am sure many others who have interacted with them, will have fond recollections of the times we have shared, even those difficult incidents that we worked on together.

But if you look at "Caltech Today" on the homepage, there is nothing at all about the reorganization, its goals, the forces that have driven it. Not even a mention of the fact that, at least part of what has motivated this and other such changes is driven by the need to save, in the face of an underperforming national economy. Institutes of higher learning all around the country have been deeply impacted. None of these hard realities are things one wants to or can, crow about, but they are nevertheless important aspects in the life of the Institute.

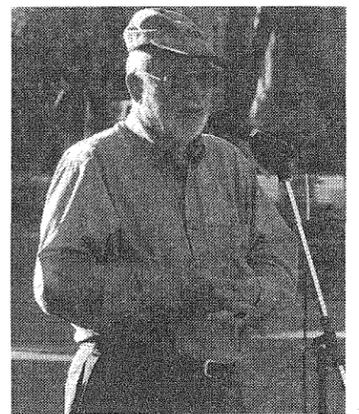
In thinking about how to make Caltech a better place and find better ways to discharge our responsibilities to students and faculty it would seem that mechanisms should be found to foster more interactions between the various segments of our society. Of course this presumes that there is interest in such interactions—many would say time for.

One approach is to find ways for professors and administrators to meet and talk among themselves and with students. The student/fac-

ulty conference was an obvious opportunity but it involved only a small subset of professors and administrators. One example of the rare occasions to meet and get to know the staff better and vice versa is the small gathering in Kim West's backyard a few months ago to meet members of our security force as people, not as uniformed officers.

Oh and then there is something else I need to say. I have made a terrible goof, which was kindly brought to my attention by several people. At least I know that a few knowledgeable people read the column. Perhaps it would have been better if no one had because, I am ashamed to say, I made a bad mistake. So, here I go, erratum: "In the last issue of the *Tech* this writer misnamed Dr. Rosalind Franklin, one of the important figures in elucidating the structure of DNA. Instead of Rosalind, I repeatedly called her Naomi. I am terribly sorry for the error. I know a Naomi Franklin, also a scientist and somehow in my rush to finish I never noticed that I had conflated two different people.

A bientot



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Courtesy of C. Lo

After placing ninth at a high-profile University of California, Los Angeles, meet, this year's Quiz Bowl has cut out for itself a bright future.

Inquisitive Team Meets Regional Success

Continued from Page 1, Column 4

matching" schedule at a lower than preferred position.

After some tense matches with Northwestern and Carleton, the team finished as the ninth overall undergraduate team and the 24th-place team overall. Last year's Division I team, which had two graduate students, finished 25th overall.

The Division II team also fought through a tough seeding schedule and ended up in a five-way tie to determine who would land in the top playoff bracket. The team, which included Parag Bhayani '06, Albert Chu '06, Irene Ying '06 and Libin Zhang '05 eventually made it into the top bracket, trouncing MIT 230-80 along the way. After several round-robin matches in the playoffs, they finished in seventh place, which ties for Caltech's best performance ever in Division II.

The Quiz Bowl Club then held its annual intramural tournament on April 12th, dragging an impressive number of students out of bed at 10 a.m. Twelve teams composed of four students each competed against each other.

Questions ranged from hard-core trivia (answer: Vercingetorix) to more academic subjects (answer: Kirchoff's Rules) to popular culture (answer: Segway) to general knowledge (answer: Cinderella's

BEYOND PLUTO? BROWN SIZES UP QUAOAR IN TALK

By MARK WHEELER

Since the invention of the telescope, the known edge of our solar system has slowly receded, first with the discovery of Uranus, then Neptune, and finally Pluto.

But in the past decade, astronomers have realized that even Pluto is not the true edge of the solar system; it is merely a member of a vast swarm of icy, planet-shaped objects called planetesimals that orbit in a region known as the Kuiper Belt.

This Wednesday at eight p.m. in Beckman, Michael E. Brown, associate professor of planetary astronomy, will address a number of provocative questions raised by this realization in his talk, "Quaoar and the Edge of the Solar System," one of the ongoing Earnest C. Watson Lecture Series that take place on the Caltech campus. Such questions include: What makes a body a planet? Where is the true edge of the solar system? Such questions will be addressed along with a glimpse into the most recent research into the exploration of the outer solar system.

Last June, Brown and postdoctoral researcher Chad Trujillo discovered a spherical body orbiting the outer edge of our solar system that was almost as big as Pluto itself. They named it Quaoar, after the creation force of the Tongva tribe, who were the original inhabitants of the Los Angeles basin.

Fairy Godmother). Some of the teams had members of the Quiz Bowl Club, but most teams consisted entirely of novices.

The competition was lightened by the use of squeaky toys and bells instead of buzzers. High spirits and team camaraderie made the day enjoyable for all of the competitors. The teams were initially divided into two brackets and played a round-robin. Afterwards they were divided again, this time by their performance in the round-robin. The top five teams were "Ketchup-Filled ???s," "The Electric Shoes," "To Be Decided," "KC and the Valence Band" and "Fantastic Four Minus One."

The top three individual scorers were graduate student Jon Sievers from "Ketchup-Filled ???s", Information Technology Services manager Erich Schneider from "Fantastic Four Minus One" and graduate

student Maribeth Mason from "KC and the Valence Band."

The tournament was run by Parag Bhayani '06, with assistance and staff from other members of the Quiz Bowl Club.

The team will miss the scoring punch that graduating seniors Costello, Lo and Norman consistently provided. Still, several talented juniors, led by Boyd-Graber, along with a strong freshman class many suspect will keep Caltech among the top teams on the West Coast.

In addition to competing in the tournament, Caltech co-hosted it with UCLA. Former Caltech student Richard Mason helped to organize transportation, staffing and supplies for arguably the "premier college trivia event of the year." Around 20 other volunteers from Caltech helped make the tournament a success.

Bourbois, Elliott, Wozny, Khan Win Noland Prizes

By MALINA CHANG

Abel Bourbois '03, Laura Elliott '03, Basit Khan '03 and Nathan Wozny '03 were awarded the Robert L. Noland Leadership Award at a dinner presentation in the Athenaeum Library the Thursday before last.

The Robert L. Noland Leadership Award is for outstanding Caltech students who have demonstrated exceptional leadership abilities.

Bourbois was the vice president of the Caltech Y ExComm, where he led important community service events such as Adopt-a-Meal and the Dinner-In-the-Park program for the Pasadena soup kitchen. He also organized a Caltech group to work with students from the Franklin Elementary School in the "I Have a Dream Foundation." Although much of Bourbois's work has been behind the scenes, he has made a difference in the lives of many students and in the Pasadena community.

Elliott has worked diligently to aid the Minority Student Education office and the Women's Center throughout her career at Caltech. She organized the Student Programming Board to help provide programming that meets the needs of the undergraduate women and has actively participated in the recruitment of women to Caltech.

In 2002, she was also the Chair of the Student Faculty Conference committee on Quality of Life outside the classroom and did a superb job, recommending changes that promise to considerably improve student advising. She has also served as an outstanding and dedicated member of the Conduct Review Committee.

Khan's most important accomplishment has been organizing the Student-Faculty Conference this year, which addressed student academic concerns. He successfully set up 11 different committees, each comprised of four to five students

and a faculty member. He also served on the Foreign Students Committee, working with the administration to allow international students to go on Curriculum Practical Trainings.

Wozny's primary contribution to his fellow undergraduates has been his work as the president of the Caltech Y ExComm, a nonprofit organization dedicated to community service, outdoor activities and unmet student needs. During his tenure he made changes to the Y's bylaws to reflect actual practice. He also organized group discussions for students to share their thoughts and feelings after September 11. Wozny also tutored at Hillside, a home for abused children and at Caltech's on-campus tutoring program.

Mice: to Flee or to Freeze? Research Details Reasons

By MARK WHEELER

In most old-fashioned black-and-white horror flicks, it always seems there's some hapless hero or heroine who gets caught up in a life-threatening situation. Instead of making the obvious choice—to run like hell—he freezes in place. That decision, alas, leads to their ultimate demise.

While their fate was determined by bad scriptwriting, scientists already know that in real life, environment and experience influence defensive behaviors. Less understood are the neural circuits that determine such decisions. Now, in an article in the May 1 issue of the *Journal of Neuroscience*, Caltech researchers have developed an experimental model using mice that can map and manipulate the neural circuits involved in such innate behaviors as fear.

Raymond Mongeau, Gabriel A. Miller, Elizabeth Chiang, and David J. Anderson, in work performed at Caltech, manipulated either a flight or freeze reaction in mice through the use of an ultrasonic auditory stimulus, and further, were able to alter the mouse's behavior by making simple changes in the animal's environment. They also found that flight and freezing are negatively correlated, suggesting that a kind of competition exists between these alternative defensive motor responses. Finally, they have begun to map the potential circuitry in the brain that controls this competition.

"Fear and anxiety are important emotions, especially in this day and age," said Anderson, a Caltech professor of biology and an investigator with the Howard Hughes Medical Institute. "We know a lot about how the brain processes fear that is learned, but much less is known about innate or unlearned fear. Our results open the way to better understanding how the brain processes innately fearful stimuli, and how and where anxiety affects the brain to influence behavior."

Using the ultrasonic cue, the researchers were able to predict and manipulate the animal's reaction to a fearful situation. They found that mice exposed to the ultrasonic stimulus in their home cage, a familiar environment, predominantly displayed a flight response. Those placed in a new cage, an unfamiliar environment, or treated with foot shocks the previous day, primarily displayed freezing and less flight.

Anderson noted that in previous fear "conditioning" experiments, where mice learn to fear a neutral tone associated with a footshock,

the animals show only freezing behavior and never flight, even though in the wild, flight is a normal and important fear response to predators. This suggests that the ultrasonic stimulus used by Anderson and colleagues is tapping into brain circuits that mediate natural, or innate, fear responses that include flight as well as freezing.

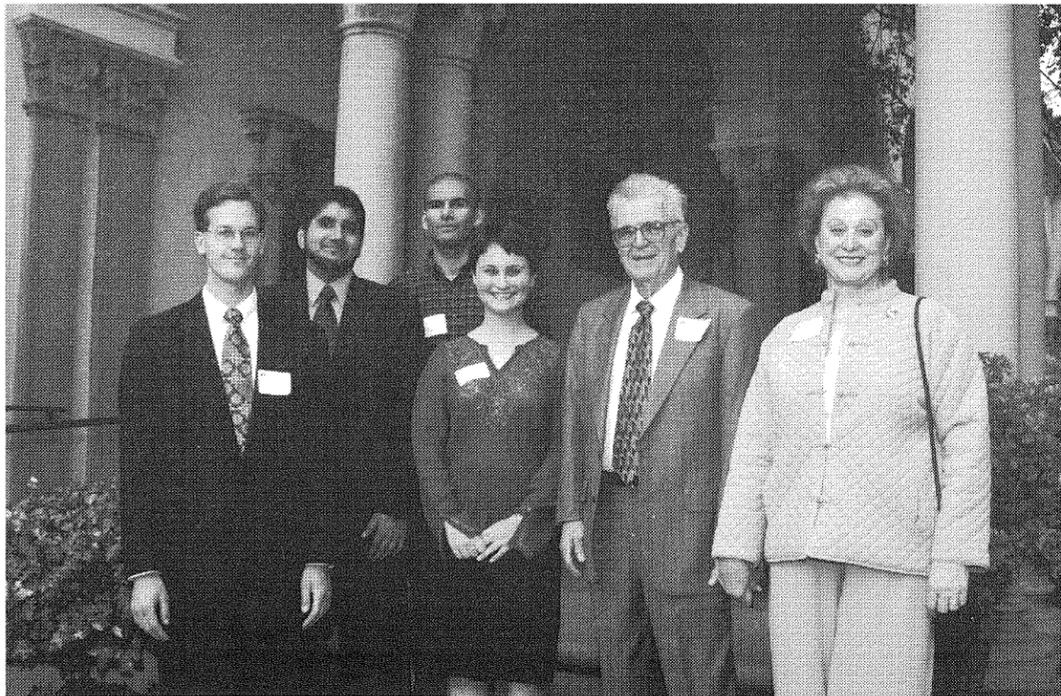
What causes the shift from flight to freezing behavior? Probably high anxiety and stress, say the authors, caused by an unfamiliar environment or the foot shocks. The researchers suggest that freezing requires a higher threshold level of anticipatory fear—the heroine inside a dark, spooky house—before it can be elicited by the ultrasound.

Most brain researchers believe the brain uses a hierarchy of neural systems to determine which defensive behaviors, like flight or freezing, to use. These range from an evolutionary older neural system that generates "quick and dirty" defensive strategies, to more evolved systems that produce slower but more sophisticated reactions. These systems are known to interact, but the neural mechanisms that decide which response wins out are not understood.

One of the goals of their work was to map the brain regions that control the behaviors triggered by the fear stimulus, to observe whether any change in brain activity correlated with the different defensive behaviors. They achieved this, all the way down to the resolution of a single neuron, by mapping the expression pattern of the c-FOS gene, a so-called "immediate early gene" that is turned on when neurons are excited. The switching on of the c-FOS gene can therefore be used as an indication of neuronal activation.

A map of the c-FOS expression patterns during flight vs. freezing revealed that mice displaying freezing behavior had neural activity in different regions of the brain than those that fled. Some of these regions were previously known to inhibit each other, providing a possible explanation for the apparent competition between flight and freezing observed in the intact animal.

Anderson notes that more work needs to be done to pin down where and how anxiety modifies defensive behavior. "This system may also provide a useful model for understanding the neural substrates of human fear disorders, like panic and anxiety," said Anderson, "as well as provide a model for developing drugs to treat them."



Courtesy of M. Chang

This year's leadership award winners—Nathan Wozny '03, Basit Khan '03, Abel Bourbois '03 and Laura Elliott '03—pose with the award's namesake couple.

Health Pioneer Varmus To Speak at Commencement

By JILL PERRY

Harold Varmus, Nobel laureate and former director of the National Institutes of Health, will be the keynote speaker at the 109th commencement ceremony at 10 a.m. June 13 on Beckman Lawn. Early estimates of the numbers of graduates include 260 bachelor's recipients, 59 master's and 102 Ph.D. recipients, for a total of 421 graduates.

Varmus, who has been the president and chief executive officer of Memorial Sloan-Kettering Cancer Center in New York City since January 2000, received his Nobel Prize for studies of the genetic basis of cancer. Much of Varmus' scientific work was conducted during 23 years as a faculty member at UC San Francisco, where he and J. Michael Bishop demonstrated the cellular origins of the oncogene of a chicken retrovirus. This discovery led to the isolation of many cellular genes that normally control growth and development and are frequently mutated in cancer.

For this work, Bishop and Varmus received many awards, including the 1989 Nobel Prize for physiology or medicine. Varmus is also widely recognized for his studies of the replication cycles of retroviruses and hepatitis B viruses, the functions of genes implicated in cancer and the development of mouse models for human cancer, the focus of much of the current work in his laboratory at Memorial Sloan-Kettering.

In 1993, Varmus was named by then-President Bill Clinton to serve as the director of the National Institutes of Health, a position he held until the end of 1999. The NIH is the federal focal point for medical research in the United States and includes 27 separate institutes and centers. Its goal is to acquire new

knowledge to prevent, detect, diagnose and treat disease and disability, from the rarest genetic disorder to the common cold. It conducts its own research, supports research by others, helps train investigators and fosters communication of health sciences information.

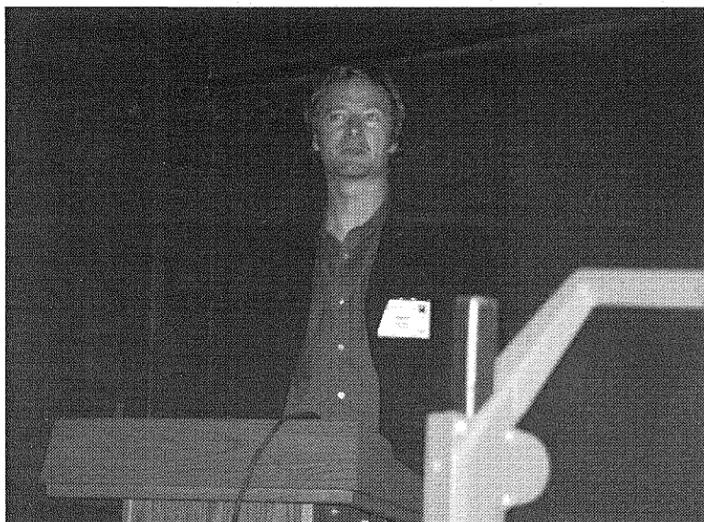
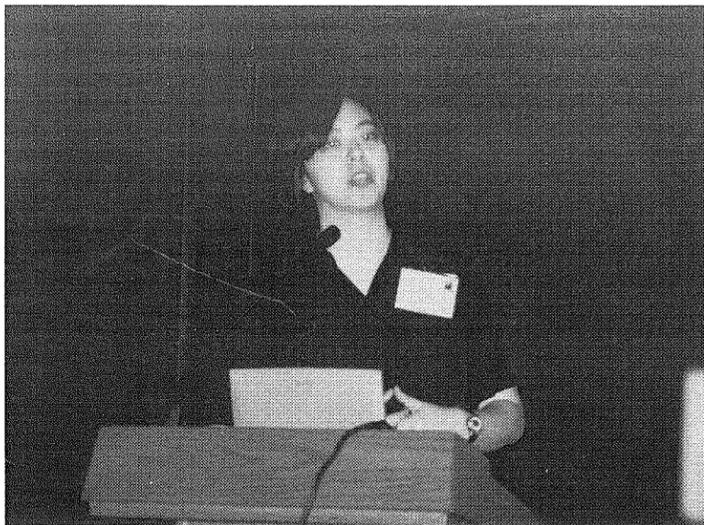
During his tenure at NIH, he initiated many changes in the conduct of intramural and extramural research programs, recruited new leaders at NIH, planned three major buildings on the NIH campus in Bethesda, Maryland and helped to increase the NIH budget from under \$11 billion to nearly \$18 billion.

In addition to authoring over 300 scientific papers and four books, including an introduction to the genetic basis of cancer for a general audience, Varmus has been an advisor to the federal government, pharmaceutical and biotechnology firms and many academic institutions.

Recently he served on the World Health Organization's Commission on Macroeconomics and Health, advisory committees on electronic publishing and planning groups to enhance scientific activity in the developing world. He has been a member of the U.S. National Academy of Sciences since 1984 and of the Institute of Medicine since 1991.

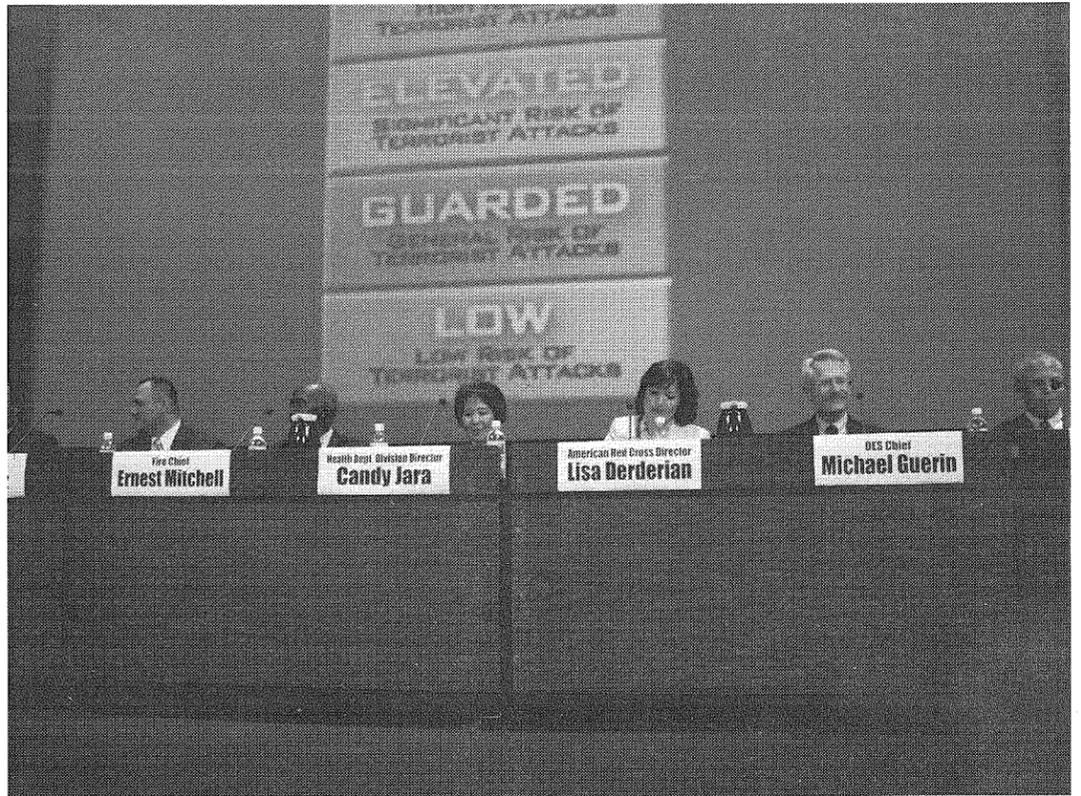
A native of Freeport, Long Island, Varmus is a graduate of Columbia University's College of Physicians and Surgeons, worked as a medical student in a hospital in India and served on the medical house staff at Columbia-Presbyterian Hospital. His scientific training occurred first as a public health service officer at the NIH, where he studied bacterial gene expression and then as a postdoctoral fellow with Bishop at U.C. San Francisco.

ALIVE! MACHINES CLANK TO LIFE IN INDUSTRY FAIR



D. Korta/The California Tech

Speakers outline the latest developments in machine learning as part of the Center for Neuromorphic Systems Engineering's ninth annual Industry day. Neuroprosthetics, BEAM Robotics, BIO-bugs—the event last Thursday left no robot dead.



D. Korta/The California Tech

An expert panel of prominent Pasadena personalities details its plans of action last Thursday in Beckman to a slate of potential emergencies ranging from fires to bioterrorism. Ideas ran the gamut from promoting 72-hour sustainment kits to an aptly named "uh-oh squad."

Pasadena Experts Lay Out Emergency Game Plan: 'Get Prepared, not Scared'

Continued from Page 1, Column 5

level has typically been one below the national level, since many of the threats on the national level are not directed at the Pasadena area. He added that the force was doing the best it could to "balance safety and security with the civil liberties."

Lieutenant John Perez of the Pasadena Police Department's Counter Terrorism Section spoke about the departments counter terrorism philosophy and different ways they were working to prevent terrorism. There is a pre-indicator system in place to help track suspicious behavior and Pasadena is working with the Terrorist Early Warning Group from the Sheriff's office to minimize the threat of terrorism. The philosophy in Pasadena regarding count terrorism is the same as that of fighting crime: "win the majority of the battles." Lt. Perez added that there is ongoing training for both police personnel and the general public. He emphasized that people above all should be aware of the terrorism threat.

Pasadena Fire Chief Ernie Mitchell described the Fire Department's role as "consequence management." The department has developed an all-hazard plan, mak-

ing it ready for all situations, an "uh-oh squad," as Chief Mitchell called it. He outlined the extra training and equipment, as well as expanded communication, that have been implemented since the increase in risk of terrorism. Chief Mitchell's closing advice to the audience was to "be ready to sustain yourselves for 72 hours."

The Public Health Department, represented on the panel by Candy Jara, checks for outbreaks of sickness. In the event of bioterrorism, they would likely be the ones investigating. The department has practice checking out reports of tainted food every day and tracing the disease to its source.

Ms. Jara also outlined the smallpox vaccination schedule. The first phase, involving the vaccination of healthcare workers has been completed and the second phase, for emergency services, should begin in the late summer or early fall. Vaccinations for the general public, phase three, should be ready by 2004.

Lisa Derderian explained the American Red Cross's action plan. The mission of the plan is to help people prepare for a disaster and to be ready to help in the event of one.

The five points of the plan: "make a plan, build a kit, get trained, volunteer and give blood."

Chief Michael Guerin of the Governor's Office of Emergency Services spoke about the support the state government gives to local agencies when they get overwhelmed. He talked about how the state helps coordinate large scale mutual aid events. Chief Guerin also spoke about how many state organizations had taken on new roles and that plans are getting better.

The Director of the Volunteer Emergency Management and Homeland Security Programs, Adam Sutkus spoke about the mission of his agency to help facilitate "seamless integration" of the efforts of many groups that help during crises. Mr. Sutkus also spoke about new community service groups and encouraged people to get involved. He tried out a new catch phrase: "Don't get scared; get prepared."

After the panel presentations, moderator Kent Shocknek of CBS2 News This Morning ran a short question-and-answer period and John Cushman, the President of the Pasadena Police Foundation made a few closing remarks. The Pasadena Police Foundation "helps cops give kids hope" by raising funds for police programs that don't receive full funding. The foundation is concerned with furthering the goals of the police department.

The talk is part of a series of town meeting-type forums that city officials hope will answer questions that people have, primarily regarding the threat of terrorism, about the level of preparedness in Pasadena. There have already been talks with neighborhood leadership and members of downtown businesses and the series has turned to spreading out to the community.

CALTECH CONVENTIONAL WISDOM WATCH



Quiz Bowl: It's still the case that no one can catch up to Team Ketchup, but as a whole the team's accomplishments have been far from trivial.



Uh-oh! Pasadena's brains join forces to "win the majority of the battles." Between uh-oh squads, sustenance kits and a catchy though somewhat effete slogan our days of trepidacy are gone.



Res. Life: Kim West, originally a New Englander, may now head back east to make room for Campus Life in a change that laid her off and also fried the job of Sue Friedman. Res. Life is gone, but how will Mannion fare?

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