The Office of Residence Life in Student Affairs has been elimi­nated, announced Vice President of Student Affairs Margo Marsak to the Caltech community on May 13th. The announcement, stimu­lated by increasing 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 crux of the reorganization is twofold and effective as of last Tuesday. The piece was a 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 retained to some of the pre­Residence Life glory, with antici­pated collaboration between Mannion and Professor Cathy Zarrella on both Campus Life policy and smaller but still significant changes have also occurred. Sev­eral additional people, both inside and outside the former Residence Life, were laid off, including sev­eral “central administration support staff” and an administrator from the Health Center. Additional person­nel have been shuffled around the Student Affairs organization. Sue Chiariero, former Assistant to the Director of Residence Life, for ex­ample, will continue her work for the institute under Tom Mannion. Department of Public Safety 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 Savitt 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 lead­ship 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 ech­ched that the new, streamlined Cam­pus Life organization would be beneficial to students, “playing a more visible, positive role” in student life. While

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 as the Caltech Women’s Glee Club. The next piece featured the Wells, the soloist and the Congre­"The Moldau,” Bedrich Smetana, with the Caltech Women’s Glee Club. The piece 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 as the Caltech Women’s Glee Club. The next piece featured the Wells, the soloist and the Congre­sional prayer service by Ernest Bloch, an elo­quent prayer service by Ernest Bloch, an elo­quent piece, picturing the two sources of the river Moldau, 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 orches­tara, along with both the men’s and women’s glee clubs, performed Sacred Service by Ernest Bloch. The Sacred Service has five parts, each con­sisting of under­graduates and graduating students, faced off to an­swer questions on topics including “Tess of the D’Urbervilles,” the NCA’s Frozen Four, the Kane­thania Peninsula and Murphy’s Law. Caltech’s Division I team, which consisted of under­graduates Jordan Boyd-Graber ’04, Kevin Costello ’03, Cole Lo ’05 and Matthew Norman ’03, competed against teams consisting of graduate stu­dents or those who had played at previous IVCs. After playing a tough seed­ing schedule, which in­cluded four of the eventual top ten teams, Caltech entered the “power Continued on Page 2, Column 1

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Einstein Project Completes 900-web Catalogue
By MARK WHEELER

More than 900 scientific and non-scientific documents of one of the most influential intellectuals 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 last year as a daylong symposium on his life and work held at the American Museum of Natural History in New York.

The new site is the result of a 25-year collaboration 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 available in the form as they appear in The Collected Papers of Albert Einstein, published in Germany by Princeton University Press, with historical and scientific annotations. Some of the documents are accompanied by English translations.

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 non-scientific 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 Photoreproduction Departments of the Hebrew University's Jewish National & University Library (JNUL), the David and Fela Shapell Digitalization Project at the JNUL, and with Princeton University Press. The archival database will present records for almost 300,000 entries that are 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 writing about the correspondence of young people to youth 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 topics of science, education, inter-national reconciliation, Zionism, and pacifism.

Einstein's personal papers were bequeathed to the Hebrew University and the nation of Israel by his last will and testament of 1955. The Albert Einstein Archives have been housed at the Hebrew University's JNUL since 1982.

Einstein's papers are part of a multidisciplinary research and editorial team engaged in the collection, selection, and scholarly annotation of The Collected Papers, an edition of 25 planned volumes, and a catalogue, essays, 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 tended academic faculty numbers 1,200.

The university is Israel's leading academic center for research and postgraduate study.

The Hebrew University's 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.
I wasted a column last week on the some-what trivial subject of donuts, so this week I would like to expand on a more serious is¬ sue. “What is wrong with the honor system?”

The easy answer and the one that I often feel is worse with the honor system—at least, nothing is worse than it looks right now—is that there are some major problems with the honor sys¬ tem and that if we don’t address them soon, this major problem will become even worse. Like most of our student-government issues, these problems are the result of institutional issues in the root causes of such problems.

Many of our student-government issues, therefore, are due to the same institutional issues that are at the root cause of such problems. Like most of our student-government issues, these problems are the result of institutional issues in the root causes of such problems. Like most of our student-government issues, these problems are the result of institutional issues in the root causes of such problems. Like most of our student-government issues, these problems are the result of institutional issues in the root causes of such problems.

In the words of the “70’s-71” letter 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 70’s, a phrase had already begun circulating through the undergraduate population that would change the honor system forever. That phrase was, “We need services for integrity.” This definable honor code had an explicit charac¬ terization, “No one shall take unfair advan¬ tage of any member of the Caltech commu¬ nity.”

Having used a universal rule they could apply to a wide variety of situations, the Board of Control voted to eliminate the need for any other set of non-academic cases. The honor system had never been meant to ap¬ ply 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 negligible regulations that fell to the de¬ partment’s attention. Unfortunately, when issues go to administra­tion, the spirit of self-governance is lost, and most students who find themselves in front of the deanship for selling Daihatsus or putting paper in the trash 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 group should have a monopoly on self-governance. We need to help our friends to develop the power to handle most student issues. It makes sense that all suspected academic cheating should go to the BoC, but do other instances of unfair advantage need to be reported? If something can be resolved between friends, shouldn’t they do it? 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-encom¬ passing phrase to describe the honor system, but that doesn’t mean we need a monolithic system to deal with violations. The strength of an honor system comes from the indi¬ vidual policing himself and having the au­ thority to watch over his peers. We have for¬ gotten this crucial aspect of our honor sys¬ tem and it is weakening our student commu¬ nity.

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

Calling All Angels

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

Adjusting to Changes

No doubt the letter in your mailbox has in¬ formed you: Student Affairs had to do some reorganizing to meet demands of a tightened budget. I have to be honest: I’m not sure what the consequences or rami¬ fications of this will be. My instinctive reaction is that any cuts to student af¬ fairs 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 it is time for the conse¬ quences.

One thing I am happy about is that Margo Marshall made the effort to inform the stu¬ dents 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 Manion 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 stu¬ dents to try and address their concerns. Hope¬ fully, we can all pitch in and try and help them fill in any gaps left due to their dismissals. In the meantime, let’s all just keep going. If you have any feedback on how these changes are affect¬ ing 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 meetings, we have come to the realization that these changes would need to be level: I’d like to address them, briefly, but hopefully completely.

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

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 impacts you personally. However, I have not heard from you about the reorganization as it impacts you professionally.

First, let me assure you that by merging the Student Affairs programs (ISP with Caltech Office of In¬ ternational Scholar Services (ISS), we are, in fact, taking steps to create an administrative body more dedicated to the needs of our inter¬ national students. In fact, many colleges and universities have established offices or oth¬ erwise services that both students and scholars, as well, have been able to turn to. I am able to me to downgrade or eliminate these vital services. The reorganization is a prac¬ tical response to concerns about Caltech’s lagging behind. Faculty committees and 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 rep¬ resentatives were there. A, this crucial com¬ mittee that will be reporting its recommen¬ dations 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 more attention to these concerns. 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 competitive in this changing world. Curiously, Caltech lags behind. Faculty committees don’t even have minutes taken, let alone re¬ quired attendance. In the same way that our paper registration system is an embarrassing anachronism of a bygone era, we have decades out of date.

And that is why we need to institute mea¬
Letters: ISP Director, New Fishing Magazine
International Director
Dear editors,

On Tuesday May 13, the position of Director of the Student Activities and Services Programs was eliminated and the current director, Parshad Kia, dismissed. This move was prompted by the concerns of international students. The student body should choose to spend our leisure time and our dollars at home and support local businesses. Our international students think that there will be language barriers and difficulties in the future. This is causing them a great deal of concern.

We believe that Parshad Kia is an effective and well-run program. It is important for Parshad Kia to be kept and that the university move forward with human resources. In addition, the remaining two staff of ISP will be moved to the Students Services.

Dear editors,

Dear editors,

Dear editors,

Dear editors,

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Dear editors,

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Dear editors,

Dear editors,
The Caltech Legacy: William Pierce; From Physics 1a to The Turner Diaries

By LIRIN 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, a fictional account of a right-wing地下 white supremacist organisation 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.

By 1996, Pierce completed his second novel, Hitler, which features graphic descriptions of assassinations of interracial couples, Jews and politicians. He deliberately crafted Hitler to motivate real-life assassins and has inspired several real acts of racial terror.

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Are the administrative changes for the better? The Caltech Legacy: William Pierce; From Physics 1a to The Turner Diaries

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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 Moshier 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 Falon 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 walk. We know each other by sight and sometimes 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 not 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 the Undergraduates who complain about the grounds people mowing the lawns at what for students up till four a.m. with their homework—what else?—as an unnecessary 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 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 whitout, 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.” I would like to rest of Caltech has not yet noticed, so far as I can tell.

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, had bred if not friendships in a deep understanding.

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 of kind of hollow but the fact 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. 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.

If you look at “Caltech Today” on the homepage, there is nothing 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 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 premises 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 faculty 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 taken for I am ashamed to say, I made a bad mistake. Here I go, erratum: “In the last issue of the Tech this writer omitted 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 bienon

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Inquisitive Team Meets Regional Success

Continued from Page 1, Column 4

marching rhythm a 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 overall. Last year's Division II team, which had two graduate students, finished 22nd overall.
The Division II team also fought through a tough seedling schedule and ended up in a five-way tie to determine who would land in the top playoff bracket. The team, which included Fang Bhatnagar '06, Albert Chu '06, Irens Ying '06 and Libin Zhang '05 eventually made it into the top bracket, bracing 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 team finish in the playoffs, they finished in seventh place, which ties for Caltech's best place overall. Last year's Division II team capped off efforts with a round-robin. Afterwards they were divided again, this time by their performance in the round-robin. The top five teams were "Ketchup-Filled?!, "The Electric Sheets," "To Be Decided," "KC and the Valentine Band" and "Fantastic Four Minus One."
The top three individual scorers were graduate student Son Sivers from "Ketchup-Filled?!", "Information Technology services manager Dr. Eric Schoedler from "Fantastic Four Minus One" and graduate student Maribeth Munson from "KC and the Valentine Band."
The tournament was run by Basit Khan '03, 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 Noram consistently provided. Still, several talented juniors, led by Boyd-Garber, along with a fresh 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 Munson helped to organize transportation, staffing and supplies for the "premier college trivia event of the year."

Around 20 other volunteers from Caltech helped make the tournament a success.

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 squawk boxes and behind the scenes 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?!, "The Electric Sheets," "To Be Decided," "KC and the Valentine Band" and "Fantastic Four Minus One."
The top three individual scorers were graduate student Son Sivers from "Ketchup-Filled?!", "Information Technology services manager Dr. Eric Schoedler from "Fantastic Four Minus One" and graduate student Maribeth Munson from "KC and the Valentine Band."
The tournament was run by Basit Khan '03, 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 Noram consistently provided. Still, several talented juniors, led by Boyd-Garber, along with a fresh 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 Munson helped to organize transportation, staffing and supplies for 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 Nolands Prizes

By MALINA CHANG
Abel Bourbois '03, Laura Elliott '03, Bassit Khan '03 and Nathan Wozny '03 were awarded the Robert L. Noland Prize at the annual undergraduate awards ceremony. Bourbois was the vice president of the Caltech Y ExComm, where he led the community service events such as Adopt-a-Meal and "sow the seed" program for the Pasadena soup kitchen. He also organized a Caltech group to work with the Caltech 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 Program Board to help provide programs that meet the needs of the undergraduate women. She has actively participated in the recruitment of women to Caltech.

In 2002, she was also the Chair of the Student Faculty Conference co-organized by the Office of Quality and Equity. She was the second woman to address the conference 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 Board.

Khan's most important accomplishment has been organizing the Student-Faculty Advisory Committee this year, which addressed student aca­ demic 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 Prac­ tical 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 communi­ city service, outdoor activities and un­ student needs. During his tenure he made changes to the "Y" 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 Hillsides, a home for abused children and at Caltech's on-campus tutoring center.

In each of their roles, the students demonstrated how to motivate peers and provide a cohesive environment. The awards provide a "quick and dirty" defensive motor responses. Finally, they also found that flight and freezing are negatively correlated, suggested that a kind of competition exists between these alternative defen­ sive motor responses. Finally, they have begun to map the potential cir­ cuitry in the brain that controls this competition. "Fear and anxiety are important emotions, especially in this day and age," said Anderson, a Caltech pro­ fessor of biology and an investiga­ tor of the Howard Hughes Medical In­ stitute. "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 pro­ cesses innate fearful stimuli, and how and where anxiety affects the brain to influence behavior."

Using the ultrasonic cue, the re­ searchers were able to predict and manipulate the animal's reaction to the sound. In one experiment, animals were exposed to the ultrasonic stimulus in their home cage, a fa­ miliar environment, predominantly displayed a flight response. Those housed in an unfamiliar en­ vironment, or treated with foot shocks the previous day, primarily displayed freezing and less flight.

Anderson noted that in previous "Fear of Neighbors" experiments, where mice learn to fear a neutral tone associated with a footshock, the animals show only freezing be­ havior and never flight, even though in the wild, flight is a normal and important fear response to preda­ tors. This suggests that the ultrasonic stimulus used by Anderson and colleagues is tapping into brain circuits that mediate natural, or in­ nate, fear responses that include flight as well as freezing. This tells the story of flight to freezing behavior? Probably high anxiety and stress, say the authors, caused by an unfamiliar environ­ ment or the foot shocks. The re­ searchers suggest that freezing re­ quires a higher threshold level of fear than flight. "The brain uses a hierarchy of neural systems to determine which defensive behaviors, like flight or freezing, to use. These range from an evolution­ ary older neural system that gener­ alizes "quick and dirty" defensive strategies, to more evolved systems that produce slower but more so­ phisticated reactions. These sys­ tems 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 understand how the brain con­ trol the behaviors triggered by the fear stimulus, to observe whether any change in brain activity corre­ lated with the different defensive behaviors. These systems are known to interact, but the neural mechanisms that decide which response wins out are not understood.

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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 multinational cancer centers, the foundation 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 disorders 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 UC San Francisco.

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 Lukac 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: “Get ready, get prepared.”

After the panel presentations, moderator Kent Shockneek 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.