Campus Weather Station to Be Dedicated to the Late Caltech Nobel Laureate Edward Lewis

By ROBERT TINDOL

The famed geneticist Ed Lewis is won his Nobel Prize for his breakthroughs in understanding how genes relate to embryonic development. But for four years in World War II, he served as a U.S. Army meteorologist.

On April 26, the late California Institute of Technology professor will be honored for his war service with the dedication of the Ed Lewis Memorial Weather Station on the Caltech campus. The station provides real-time weather information as part of the WeatherNet network of schools with weather stations on campus.

Activities begin with welcoming comments by Elliott Meyerowitz, a plant geneticist who is Beadle Professor of Biology and current chair of the Caltech biology division, where Lewis was a faculty member from 1946 until his death in July 2005. Meyerowitz will be followed by Stephanie Blozy, a WeatherBug meteorologist, who will present an overview of the weather station and its role on television, in schools, and on the computer desktop. Meyerowitz will then introduce the current weathercaster Fritz Coleman, who will present the formal welcome to the public on behalf of NBC4 WeatherNet. At approximately 4:50 p.m., Meyerowitz will present the "Golden Anemometer" to Pamela Lewis, the widow of Ed Lewis, and their son Keith Lewis (an anemometer is a device for measuring wind speed and liquid flow). Following the presentation ceremony will be the unveiling of the weather station's digital display and plaque by Meyerowitz and the Lewis family.

Lewis spent his life working on the genetics of the fruit fly, with special attention to the fundamental ways in which the genes relate to embryonic development. The work had profound implications for a basic understanding of the genetic regulation of development in humans.

In a book published on Lewis a few months before his death, author and longtime collaborator Howard Lipshitz wrote that Lewis's scientific research was "the bridge linking experimental genetics as conducted in the first half of the 20th century, and the powerful molecular genetic approaches that revolutionized the field in its last quarter." Lipshitz also lauded Lewis's much less widely known work on the understanding of radiation and cancer and closely related issues concerning physics and biology.

The production: Guys and Dolls. The cast: a motley jumble of students and faculty. En- ter: Professor JeniJoy La Belle as the Cabaret nightclub dancer. Professor Harry Gray as Harry the Gambler, Professor Richard Feynman as a bongo drum player, and Professor Chris Brennen as the Irish policeman. Long ago, Caltech students put on an annual musical and invited select faculty to attend. They approached Brennen to take the role because of his natural Irish accent and his past experience in theater.

Professor Chris Brennen is this year's recipient of the annual Feynman Teaching Prize, one of the most distinguished accolades awarded to faculty at Caltech. Brennen credits his teaching skills to a natural aptitude for teaching and the Irish tradition of storytelling. Growing up in a small Irish village, Brennen did not always know that he wanted to be a scientist or an academic. His dad was the local doctor and everyone expected that, as the eldest, Brennen would also grow up to be a doctor.

As a child, Brennen loved learning about how things worked. He loved building things, such as model airplanes and radios, and putting things apart even more. Once, Brennen's father reprimanded him for being unable to piece things back together after his father's prized lawnmower. But it was not until he discovered his natural aptitude for math and science. In particular, he credits his math and physics teachers for inspiring him to go into science. Brennen's math teacher, Mr. Gwilliam, was "inspirational in the way that single-minded people often are" and Gwilliam's devotion to mathematics resonated with Brennen's innate tenden- cy for the subject. These two convinced Brennen's father that he was likely to succeed in science and even had a high chance of attending Oxford University.

Not only did he attend Oxford; he later earned his masters and Ph.D. there as well. When he first arrived in Oxford from the Irish village, where he grew up, he described the culture shock as bigger than that of a Massachusetts-ism comparing to Caltech. Brennen credits Oxford with giving him an education outside of academiums, it was there that he in- teracted with all types of people and "experienced a wide range of cultures, opened up on honesty and ideas.

After Oxford, Brennen worked in a British government lab in London, where he met Professor Ted Wul of Caltech. The two struck up a lively conver- sation, and, about a month later, Brennen received a letter in the mail offering him a one-year postdoctoral fellowship at Caltech. Brennen came and has been here ever since.

During his time here, Prof. Brennen has frequently saluted forth into the mainstream of stu- dent life by serving as MOSH, Dean of Students and VP of Student Affairs. The confer- ence room in the third floor of the Center for Student Services even bears his name. For Bren- nen, the easiest part of those jobs was interacting with stu- dents. His Korean language undergrads is their honesty. In controversies such as the Rick- etts bonfire, Brennen always felt that students remained truthful. He believes that "truth and accountability" will always be important. You cannot build an education

By JACOB LEONARD KING

In the early morning hours of Monday, April 11, a student in Ricketts and Dabney awoke to find splotches of fresh white spray paint covering various hallways and wall paintings and graffiti. White blobs hovered on the walls in the otherwise yellow Ricketts alley "id" as well as "Snatch" and in nearly all the buildings.
The censored material was as var- ious as explicit paintings of stick figures in sexual positions and statements such as "Fuck censorship!" The painters employed no clear standard in covering individual words or entire statements: they only crossed out the "anus(es)" in "Sexx my anus(es) [sic]" but blasted out "sex" on the opposite wall.

Caltech has long practiced the tradition of freedom of expression in walls. While students label murals of abstract or pastoral scenes date back to the 1960's, students in some houses constantly add more works and vent frustrations by scribbling comments on the walls ranging from erudite wit- nicisms to crude expletives. For many house presidents this forms an inte- gral part of the culture and daily life; consequently, students take any threat to this right personally.

At first, students did not know what to do. But for four years ago, Dabney House President Brandi Cossairt and Interhouse Commit- tee Chairman and Dabney House Presi- dent Peter Foley complained at the subsequent IBC meeting to Marco Marsh, Vice President of Student Affairs, and to others in the administration.

At this meeting, we reached a compromise of a 48 hour warn- ing. After that period, the president of Dabney House will receive notice 48 hours before the Housing Office removed material deemed offensive, so houses would have the opportunity to cover the material themselves. However, the next Monday, April 18, more white splotches appeared without warning. Bran- di Cossairt discovered five works spray-painting over obscenities and told them to cease spray painting and to leave Dabney. Another round of talks ensued with various members of Caltech administration.

Students inquired what prompt- ed the purge. While the Admis- sions Department was taking prospective students and their parents on a tour of the houses, "One parent complained of the offensive murals" in Page House. Noting that these murals were "sexually harassing," Tim Chang felt that "it [was our [housing] room] to take care of censoring, so since students were not doing it." This explanation dissatisfied some students: "How did it go from a threatened sexual harass- ment suit to censoring out 'Oh shit, crayons' and 'Buy a coke, dammit! What sort of incom- petence is this?" asked Dabney House Secretary Meru Sadhu.

Tim Chang also noted several more general problems concerning the housing situation, saying that the Housing Office, he said "It's our responsibility to keep hal­ loways looking nice. The housing staff was "overzealous" and had taken the chance to be proactive.

Margo Marsh lamented the lack of communication before se- lection: "Clearly something went wrong." She added, "I think stu- dents and the administration can reach an equilibrium given the outside pressures." When asked about students in other houses who were not notified in advance, he responded that his staff was "overzealous" and had taken the chance to be proactive.

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Women in Science: Fact or fiction?

By JONATHAN MALMAUD

According to Dr. Charles Vest, the Science Center was just stepped down after 15 years of diligent service, they are a fact. His book titled "Women in Science and Engineering: Personal and Institutional Barriers, Frustrations, and Opportunities," inspired a room full of female Caltech scientists to continue their careers in science and some Caltech males, including President Revi, to nod in sage agreement.

Dr. Vest began his talk by as- suring the audience that he thought of them, not people, as a group, no longer had the same problems. His talk last Wednesday, however, was mostly a collection of quantitative tables and graphs showing that he remains an engineer at heart.

In 1980, MIT's undergraduate school was about 20% female. The graduate students were higher at 45%, and the percentage of professors was 5%. Today, the percentages are more like 45% female undergraduates, 25% female graduate students, and even school presidents.

How have such shifts occurred? They all seem to point to a change in policy. First in the Southwest regional tournaments in which each participant compiling the statistics from electronic sketches and demanded that Rick- ets remove it. According to him, in the future, Muqah Marshak stated "I hope we can continue to have a state where it is about doing things in a constructive and just warfare be- tween the sides."  

Caltech ACM Team Tries Really Hard

By CHRISTINE CHANG

With participation from over 50 universities in four different continents, the Association for Computing Machinery Inter- national Collegiate Programming Contest allows students to compete against each other in direct competition.

At the end of the talk, though, when Dr. Vest began to give a t-shirt with "MIT" written on the front and a mes- sage not at all favorable to women on the back. Vest responded, "I'll keep it open but I won't wear it." Baltimore then suggested that Vest frame it.

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I'm sorry that I spent my college years drinking beer and studying English literature.

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THE CALIFORNIA TECH COMMENTARY APRIL 25, 2005

CATBERT: EVIL DIRECTOR OF HUMAN RESOURCES DON'T RATE ANY EMPLOYEES EXCELLENT BECAUSE THEN THEY'D EXPECT RAISES.

THE FEEL LIKE THE USELESS PEOPLE WILL MAKE ME FEEL BAD IF I'M NOT ORGANIZED.

WALLY... I'M RATING YOU 'GOOD' BUT NOT BECAUSE YOU ARE.

COMPANY POLICY SAYS I HAVE TO FIRE ANYONE RATED LESS THAN GOOD, AND THE HERING FROZE MEANS IT WOULD SHRINK MY EMPIRE.

SO YOU CAN GET PAID FOR DOING NOTHING AS LONG AS YOU DON'T KILL ANY ONE. I CAN'T PROMISE THAT.

GASP! A SLIGHT PROMOTION!

THE PAY WILL BE THE SAME BUT YOU CAN MAKE YOUR CUSTICLE SLIGHTLY BIGGER BY SHAVING THE RAGGED FABRIC ON THE INSIDE SEAMS.

YOUR NO. 1 TITLE IS SPELLED JUST LIKE THE OLD ONE BUT IT'S PRONOUNCED TOTALLY DIFFERENTLY.

AND NOW I MUST HUMBLE MYSELF TO SOME CONDESCENDING ENGINEERING AND ASK FOR HELP.

I'M SORRY THAT I SPENT MY COLLEGE YEARS DRINKING BEER AND STUDYING ENGLISH LITERATURE.

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Irrational Exuberance Midterms Week: Good Luck!
Prefrosh Weekend Photos

BY MICHAEL CHANG

Dinner at Lloyd

Prefrosh hanging around Lloyd courtyard after Capture the Flag

Casino Night in Fleming

A Capella at the Club Fair

Turntables at the Club Fair

Patrick Hummel playing several prefrosh and Techers in chess simultaneously

Club Fair, Caltech Hillel booth

Club Fair, Caltech Concert Band booth
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Location: Gates Patio, near Dabney Lounge

Fifth Annual Caltech Jazz Festival
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Save the date and time: Saturday, April 30, from 1 - 6 PM......Free!!

Free, no tickets needed...For more information, please call the Caltech Ticket Office at 626 395-4652 or check out the web site at http://events.caltech.edu/event/2241.html

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Communication is a 2-way street

By GALEN LORAM

Those of you who know me or have dealt with me more than once or twice may have noticed that I could ramble profusely even without last issue’s invitation to use the Tech to trash me. But take heart gentle readers, for what is announced today is an attempt by one black perched atop a huge, bright pink soapbox with “The Californi­an” written in girly script across it is not.

So, although I am not president anymore, I did not write during the second half of my term I wrote only two articles. When we learn to communicate better, we all have to learn something.

On the other hand, communica­tion does not just go from leaders to citizens; everyone else’s communica­tion needs to have built in feedback. This means that you have to ask. When I was editing a gossip column, I write an article on something that concerns you, I only get two inquiries during my entire term from non-ASCIT people. I write articles, when I want that people want to know about something, we happily share. If you do not know what you want to know about something, I will not tell you. When I have the option, I can do both.

One of the reasons I want to communicate better, you better understand stu­dent concerns, which can help us make better decisions.

Knowing that people care en­courages elected officers to do their best. If no one ever comes to talk about what he or she feels, concerns, we just imagine things about which we think others care. If we think we cannot say something, we will even be offended.

Student Affairs is doing its part by starting up these open houses, so do your part by going. Dima, the social director, is coming up October 21st at 7PM. I will put more time and energy into them than I have seen in years. I’m not asking for signed petitions or even volunteer to help plan them. Since Wiener and Peterson have brought ASCIT and the HBC closer than they have been in years, go talk to them about your ideas for how they could better the campus. The HBC deals with the financial, academic, and social aspects of being a Caltech student, and how to make it a better experience for the whole campus, particularly those frosh who will live in Avery. Talk to your house directors about your thoughts on how to make the transition as smooth as possible.

Also, at the end of the term, many departments distribute course evaluations, but many stu­dents do not bother to respond. Fortunately, students can now download TQR’s Teaching Quality Feedback Reports, for all classes except your course’s website. In the future, TQR’s should be online for all classes, making course evaluations more accessible for us and more easily interpretable for professors.

Some committees brought up the lack of interest and enthusi­asm of many TA’s who must teach recitation sections in order to fill requirements. Sometimes, TAs are even admit that they know nothing of the courses they must teach. Some professors realize the dearth of committed grad TA’s, but some remain on them even when they are doing a pitiful job. A group on campus, the Caltech Project for Effective Teaching, works to pro­vide better training to graduate TA’s. Check out their website at www.its.caltech.edu/~ta.

In the long-term, departments must reevaluate how they select TA’s and courses for which they will be responsible. Infor­mation to TA’s and professors of those teach TA’s who have already taken the courses they are to teach. In the short term, you can attack the problem by informing your pro­fessors of those dreadful TA’s by generally awaiting F’s on TA evaluations.

4. Course organization

Many committees remain ignorant of the potential benefits of organizing your courses. In the case of MA2a, Probability and Statistics, and MA2b, Differential Equations, it is very obvious. I will ask you the basis of my math and science, especially of calculu­s. In this case, my remedial reas­surance is no longer good enough to explain why and the derivative determines the slope of a function. The explana­tion might involve opening the still more basic black box of the limit. That I never fully under­stood epsilon-delta proofs myself only compiles the difficulty. I must derivate it on paper and try to make it look like something that allows him to understand it. But that does not avoid the use of technical termology. This type of situation forces me to think hard about something that seems quite basic to me or to think about it in a different light. And, ultimately, I often find that I have gained new insight or perspective on the topic through trying to explain it.

At least once, I have even faced a problem that I had seen years ago but had skipped due to lack of knowledge. I had to go back to a great deal.

In struggling to teach, I learned that you can’t just read out of a book or something to you can teach it to someone else. And if you have not learned it, the pro­cess of trying to explain it be­comes a learning experience.

ByAdrian Craig
To Our Readers: Egg, Maggot, Chryssallis, Fly, Soar

By ADAM CRAIG, EDITOR

In this issue of the Tech, we present for your perusal photographs of preprofs deciding whether to make Caltech their first foothold in the steaming heaps of Academia, reflections on extraordinary ungulations necessary to reshape the pile itself for the present for your perusal photographs of prefrosh deciding whether to make Caltech their flight of Professor Brennen, who will hopefully dizzy us all with his academic barrel rolls and hair-pin turns for years to come, and a final send-off for Professor Lewis, who who will hopefully dizzy us all with his academic barrel rolls and hair-pin turns for years to come, and a final send-off for Professor Lewis, who who will hopefully dizzy us all with his academic barrel rolls and hair-pin turns for years to come, and a final send-off for Professor Lewis, who weaved through the swaths of war and winds of change and soared through awe-inspiring acrobatic maneuvers not just as a scientist but as a human being. May he forever alight upon the flower of our collective memory and sip the sweet nectar of his eternal reward.

I only met Professor Lewis once, my freshman year when I was trying to find a Professor who could identify a fly I caught. The world will remember him for many reasons, but I will mainly remember him as the kindly older scientist who set aside his flasks of bugs in brown goo to refer me to an especially helpful tome with which I identified it as a citrus fly.

The Mathematics Department is pleased to announce two categories of prizes to be offered again this year to Caltech undergraduate students.

1. The E.T. Bell Undergraduate Mathematics Research Prize — A cash prize of $500 awarded for the best original mathematics paper written by a Caltech Junior or Senior. Contestants must be nominated by a faculty member familiar with the work. The entry must be sufficiently worthy, the faculty member's name, the contestant and act as sponsor. Each student is entitled to only one entry. All contestants nominated must submit their papers in final form to their faculty sponsors by the sixth week of the term (May 6). A faculty committee will judge the papers and announce its decision before the end of the term. The committee may award duplicate prizes in case of more than one outstanding entry. The winning name(s) will be included in the commencement program in June.

2. The Morgan Ward Competition — Open to any Caltech freshman or sophomore. Entries may be individual or joint. Each student is entitled to three entries; two may be individual. An entry consists of a mathematical problem with a solution or significant contribution toward a solution. The problem may have any source which should be stated in the entry. The entries are judged on the basis of the nature of the problem, originality, and elegance of the solution. Indicate any outside references used. Entries from each contestant or group must be delivered to 253 Sloan by May 6. The names of the contestant, or contestants, must be written on the envelope only, not on the entry. The judging Committee will consist of 3 undergraduates. The judges may award a group of one if the entries received and submit their entries to the mathematics faculty which will make the awards. Prizes of $75 will be awarded for the best entries. Prizes for individual entries will be limited to non-Caltech students; no group may receive more than one prize.

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## Why Denim?

**By SAM LAWLER**

April is national Sexual Assault Awareness Month. Since 1987, humanitarian organizations and conscientious individuals have mounted an extra effort every April to spread awareness about the issue of sexual assault, to educate people about violence prevention strategies and healthy relationship skills, and to encourage victims and survivors of sexual violence and unhealthy relationships to seek emotional support and psychological and legal counseling.

To bring such awareness, education and support to campus, this year Caltech will participate in Sexual Assault Awareness Month in two ways. On Wednesday, April 27, Caltech students and staff will participate in Denim Day and the White Ribbon Campaign.

### Denim Day: Denim Day is a protest against an Italian Supreme Court ruling in 1999 in which the judges decided to pardon a rapist who was raping his own wearing jeans. They thought that she must have helped him take her pants off, which concluded the rape consensual and thus not a rape. To protest this extreme ruling, women all over the world wear denim pants and will be participating in Denim Day by providing information on how to prevent and heal from sexual assaults.

White Ribbon Campaign: The White Ribbon Campaign stands against sexual assault by wearing a white ribbon. The white ribbon symbolizes a man's promise to never condone, commit, or remain silent about violence against women. How to help the Ribbon Campaign began in Canada after a man murdered fourteen female engineering students at the University of Montreal in 1989. Caltech students in particular can sympathize with the sentiments of the Montreal ribbonbearers, because of Caltech's high male-to-female ratio, and because the murdered women were engineering students.

While Caltech is one of the safer colleges in the country for women, Candace Rypisi, Director of Caltech Women’s Center, reports that sexual assault and other forms of relationship abuse do affect our students and staff. Unfortunately, shame, self-blame, and fear that rumors will spread through Caltech’s small, tightly-knit community sometimes discourage women from reporting or seeking support. Outside the Caltech bubble, however, the realities are still too brutal to ignore.

### The Eyes Emote

Neuroscientists exploring particular regions of the brain conclude it’s the eye region that we scan when we process information about other people’s emotions. http://pr.caltech.edu/ media/Press_Releases/PR12644.html

### New X-Ray Telescope Will View Matter

By the end of the decade, a new X-ray telescope should be orbiting Earth, taking the first high-energy X-ray pictures of matter falling into black holes and shrinking out of existing stars. http://pr.caltech.edu/ media/Press_Releases/PR12669.html

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Neuroscientists exploring a particular region of the brain conclude it’s the eye region that we scan when we process information about other people’s emotions. http://pr.caltech.edu/ media/Press_Releases/PR12644.html

### More Stormy Weather on Saturn’s Moon Titan

Researchers have discovered clouds of methane at Titan’s temperate mid-latitudes. The team made its discovery using two ground-based observatories in the months before the Cassini spacecaft arrived at Saturn and Titan. http://pr.caltech.edu/ media/Press_Releases/PR12630.html

### Bose-Einstein Condensation of Cold Excitons

Bose-Einstein condensates are particles, such as atoms, that lose their individual identites at incredibly low temperatures, and coalesce into a single blob. Now researchers have created a superconducting Bose-Einstein condensate of excitons, odd particles that inhabit solid semiconductor materials that normally decay in a billionth of a second. http://pr.caltech.edu/ media/Press_Releases/PR12625.html

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## Brennen Lauded for Raw Teaching Prowess

**http://pr.caltech.edu/ media/Press_Releases/PR12659.html**

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## Potential New Approach to Fighting Cancer In mice.

Researchers altered stem cells that make blood to continually generate immune cells that attack and destroy cancer cells and shrink tumors. The work could eventually be used for controlling the growth of tumors in humans. http://pr.caltech.edu/ media/Press_Releases/PR12659.html

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## Physics Team Invents Device for Weighing a Single Molecule.

Now researchers have created a sustained Bose-Einstein condensate of excitons, odd particles that inhabit solid semiconductor materials that normally decay in a billionth of a second. http://pr.caltech.edu/ media/Press_Releases/PR12625.html

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## The Brain’s Remembrance of Emotional Events

The recollections of the central meaning and details of emotional events are related to specific parts of the brain. A study shows that the posterior hippocampus, a part of the brain’s processing resources on the gist of an emotional moment.

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## Quarterly Research Tip Sheet

A quarterly review of research at the California Institute of Technology:

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**http://pr.caltech.edu/ media/Press_Releases/PR12655.html**

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