Clinton speaks of science, technology
Caltech receives Chief Executive, promise to refocus efforts on science

BY DANA SAMAHA AND JOHN OR

Last Friday morning a confident President Clinton con­
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dent President Clinton con­dred to Beckman Auditorium: “in preparation for this day I’ve been spending a lot of time try­
ing to get in touch with my in­
terest.”

Clinton jovially addressed Caltech as he revealed his plans for science and technology spending in his remaining time as president, while lightly drop­
ing jokes here and there, some at his own expense. “With just a click of a mouse I ordered Ar­
kansas smoked ham and sausage delivered to my door,” quipped Clinton. “So I think the twenty first century has more for me than I had originally thought.”

President Clinton announced a two point eight billion dollar in­
crease in the twenty first century research fund, aiding research pertaining to information tech­
ness, the environment, biomedicine and nanotechnology.

Organizations like the National Institutes of Health and the Na­
tional Science Foundation will benefit, receiving one billion and 675 million dollars respec­
tively. The increase in funding for the National Science Foun­
dation doubles the largest fund­ing increase the organization had ever received. President Clinton stressed research in universities as the top priority, with increase of over a billion dollars in funding. He also announced a five hundred billion dollar nanotechnology initiative. The importance of a “broad re­
search agenda” was stressed as the President discussed current research interests in a variety of fields, ranging from genetics to mechanical engineering to the environment. He warned that scientific advances in areas like cloning must be analyzed seri­
ously to “ensure that science serves humanity—always—and never the other way around.

Education was an integral part of the President’s agenda. “I

was determined to leave the office saying we had opened the doors to college to all Ameri­
can,” said Clinton as he an­
nounced several measures to boost student loans, increase federal financial aid, and targeted at making college tu­
ition tax deductible. He tied this

President Clinton

Cronkite reveals career secrets, wisdom, opinions

BY ELIZABETH ADAMS

Work for the Tech, and you might become the most trusted person in America also. At least, it was at his college newspaper (The Daily Texan) that Walter Cronkite began his career in journalism and broadcasting that

has lasted over sixty years. In the latest installment of the Distinguished Speaker series talks at the Pasadena Civic Cen­
ter, CBS broadcasting legend Walter Cronkite spoke to a full

crowd for over an hour and a half. As Cronkite has covered pretty much every major news

story since World War II for ei­
eradio or television, he had a

great wealth of subjects to draw up, and the audience was treated to an enjoyable discourse ranging from chimpanzees, to

JFK, to his low opinion of cur­
rent local news stations.

One of his more amusing mo­
moments in broadcast journalism, he related, came when he was

working on a documentary at a chimp rehab center in Africa, to

highlight the story of young chimps who are sold abroad as

pets or lab animals while young and then abandoned when they

grow older. As part of his

planned opening, Cronkite at

one point described the chimps

as “so adorable they even seem

to love us [humans].” This was the cue for one of the cute, lov­
able chimps (mankind’s closest relatives, after all) to come over and slap Cronkite on the face, hard—something that it re­
peated, twice, when they tried to

refilm the scene. They decided to cut the line.

Much of Cronkite’s speech was devoted to answering ques­
tions about his career and opinions

that had been submitted from the audience before the speech. Predictably, he was

asked about reporting JFK’s as­
sassination. “Journalists are like

policemen or firemen or emer­
gency room workers,” he said;

“they have to keep their heads

clear.”

For ASCIT’s Election Results

BY MAYANKA PRASAD

A bright orb shines brightly over head. A confused student goes into the sky, wondering where this phenomenon came from, and what evils it repre­

sents.

Akin to vampires, Techers do have a tendency to avoid day­
light. This week, however, pro­
vided students with a reason (be­
ter than TBM) to get up for lunch: Wellness Week. Full of in­
structional seminars and other activities.

On Monday, Episode 2 of Chal­
lenge and Choices, segued to the Fresh Camp event, kicked off the week. These student-written skits were intended to clue in the Fresh about common second term blues. Whether it was be­
cause many could relate to the drily characters, or because of the power of desserts, the Olive Walk drew a nice crowd of curious freshmen and hungry upper­
classmen. Actually, kidding aside, Challenges and Choices confronted several issues that Freshman often face.

On Tuesday, students attended a stress­buster concert in Dunby Hall Lounge, sponsored by Delores Bing and the Music De­
partment. In addition to a little bit of fun on a Tuesday afternoon, this event also provided a tasty lunch.

Other events this week included: Commonly Seen Ath­
etic Injuries sponsored by Scott Stetson and Della Lee, Good Nu­
trition for the New Year by Karlyn Cobb, Vegetarian for Life by Harold Lyman, The Impor­tance of Breast Feeding Infants During the First Year by Carol Ann Friedman, and The Psychology of Optimal Experience by Mihaly Csikszentmihalyi.

This week’s events were a good way for students to break their normal Dracula routine and maybe even learn something having nothing to do with math or science. Students, there are still some activities going on to­
day and Saturday—don’t miss out on the fun!

Wellness Week is sponsored by Human Resources & Student Affairs. Call Deborah Southerland (x2961) or Sue Friedman (x3345).
President reaches inside and finds his "inner nerd"

**CLINTON:**

focus on education to science when he said that "It is our responsibility to open the world of science to more of our fellow citizens." President Clinton stressed the increasing dropout rate from college and introduced measures to determine the cause. He also called for support of mentoring programs and aid for minority students.

President Clinton also called out for larger investments from the corporate and industrial sector. He laid credit for America's current strong economy on "the exponential growth of information technology and how it is filtering through other sectors of our economy." He strongly emphasized American's initiative in starting the Internet boom and the resulting economic boom created by this technology, and announced a thirty-six percent increase in funding for information technology research. Clinton changed the tone of his speeches somewhat when he introduced the dichotomy of blossoming technological advancements existing concurrently with evils like racial injustice that still cause considerable problems in this country. Clinton suggested that the two are not unrelated that "every single scientific advance confirms over and over again the most important facts of life—our common humanity." "We must be wise as we advance," he warned. President Clinton was introduced by Caltech President David Baltimore and Gordon Moore, Chairman Emeritus of Caltech Board of Trustees and Co-founder of the Intel Corporation. Clinton's speech also spoke of Caltech's major research breakthroughs, including Dr. Zewail's Energy, and the Science Advisor to the President. The last such
discussion was at graduation of 1991, when then President George Bush visited Caltech. However, we are a part of a network of research universities that span America," Baltimore said, "and it is appropriate that President Clinton decided to unveil his new programs of science and technology at Caltech."

**CRONKITE:**

Distinguished journalist enchants audience with experience

While there is terror all around," he said. "The full impact of the story didn't hit him until he was on the air and "actually had to say the president was dead." He also gave his opinion on conspiracy theories: "I like the idea of a government that has found it "almost impossible" that any such plot could have stayed hidden so long without any leaks. The recent movie " JFK" offended him for the way it distorted history to the younger generation.

The most impressive interview Cronkite ever made, in terms of "showmanship," was with Jimmy Carter, who evidently possessed an "incredible intellect" and had a phenomenal ability to absorb and recall information. During the only radio call-in show ever to the White House, Cronkite claims that his role as moderator was quite unnecessary; one lady called up to discuss milk price supports, and Carter began, "Well, you have to understand the history..." and then proceeded to go into great depth, starting from the days of Andrew Jackson.

According to Cronkite, the story of our century is not necessarily the most important scientific discovery, because many of those — Bell, Tesla, transistors, DNA — have already long been absorbed into our culture. Rather, he chose the moon landing as the one event that will be remembered for years. "This was an enormously eventful time," he said. Cronkite evidently remains quite current in world events, in spite of having been officially retired for nearly two decades. He spoke for several minutes about the recent events in the presidential campaigns of both parties and gave his assessment of the relative strengths of the candidates of both parties. Bradley will have a hard time contending with Gore's political support; Bush may not be invincible after all, having been forced to take a stand on abortion. He also commented on the Clinton scandal briefly, saying that part of the reason why the American public believed Clinton for as long as it did was because there was great disgust at the abuses in the grand jury system.

Another major topic of the evening was his opinion of news reading (local news not generally being considered "reporting"

"With just a click of a mouse I ordered Arkansas smoked ham and sausage delivered to my door," quipped Clinton. "So I think the twenty-first century has more for me than I had originally thought."

**CRONKITE:**

In the presidential campaigns of both parties and gave his assessment of the relative strengths of the candidates of both parties. Bradley will have a hard time contending with Gore's political support; Bush may not be invincible after all, having been forced to take a stand on abortion. He also commented on the Clinton scandal briefly, saying that part of the reason why the American public believed Clinton for as long as it did was because there was great disgust at the abuses in the grand jury system. Another major topic of the evening was his opinion of news reading (local news not generally being considered "reporting"

Walter Cronkite, guru of journalism, poses for the camera. Cronkite spoke for the Distinguished Speaker Series.

"I'm not hard of hearing," he said. "I am the only radio was his opinion of investigative reporters who know almost nothing about the background of the area, and are thus often misled by local sources or come to erroneous conclusions on their own."

Cronkite repeatedly displayed the humor that has endeared him to generations of television viewers. Before he had come onstage, the audience was shown a short video clip of some of the more memorable news clips of Cronkite over the last half century; he later referred to it as a "documentary on the aging process."

Later, after having to ask the MC (Al Rantel) to repeat a question, he first apologized for his hearing, then added, "I've got a reputation for integrity; I'm not hard of hearing, I'm deaf as a post." In response to a question about his well-known hobbies of dancing and sailing, he even danced a few steps onstage.

At the end of the speech, many commented, "He's losing his voice." "Well, yes, he is! But took many after even so many viewers in the public eye, Walter Cronkite was still able to do what has made him so popular to generations of Americans: talk about the news, and tell it the way it is.

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the California Tech

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January 28, 1999

The California Tech

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2 News

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President Clinton praised President Clinton and his administration on their work in advancing scientific research and education. Gordon Moore, introduced by Dr. Baltimore, reviewed some of Caltech's major research breakthroughs, including Dr. Zewail's Nobel Prize-winning research in chemistry and Dr. Anderson's research in stem cells. He stressed the necessity of continuing funding for research, saying "What our nation's economic future depends on is not political leadership, but that require wise investments by the government in science and technology."
“He looks shattered!”, “He’s grown a beard!”, “He’s fired”, “He’s quit!” I heard so much speculation about the man who changed me then that when I heard him call out to me after yet another CS2 class, I was quite relieved to see him smiling. David Epstein, the infamous professor of CS1, had by then made himself quite a reputation among the students. After a quick word with Richard Covington (the CS2 professor) Epstein and I walked towards his office, myself bumbling him with questions.

The Tech recently published a short article on his wheeling and dealing skills. In it, many other questions nagging me in my mind, that needed some quick answers. Right in the middle of first term, with JJ getting a lot of resentment, I had interviewed Epstein and Dr. Chandy from the CS department to give our readers a perspective from the other side. The issue wasn’t closed with CS1, and I felt obligated to push till the end for answers.

Epstein, as always was in a friendly and approachable mood. In his usual way, he took me to the point of how he felt the need to concentrate on his fledgling JJ software because of which he couldn’t teach CS2. I wasn’t there for too long but there were questions he promised he would answer over email. A transcript of that session follows. It was obvious that he was somewhat rated by (some of) my questions, but was sporty enough to answer me candidly as I had requested.

Vikram: Here we go. I would like it if you were as candid as possible.

Vikram: What is the ‘real’ reason behind your dropping out of CS2? In my interview with you and Dr. Chandy, you had been quite passionate about your teaching, and how you wanted to bring about a change in the way CS was being taught. Even Dr. Chandy said that exactly was the idea behind hiring you. What happened to all that now?

Epstein: The reason I am not the CS2 lecturer is purely a matter of time and energy. The time for JJ is now and I am putting everything I got into it.

As for your second question, my passion for education continues to grow. All my energy is going into JJ and since JJ is an online educational system we are looking at an initial audience in the tens of thousands with a potential audience of something tinge. Unfortunately, creating C material for CS1 took most of my time and energy and I fell behind in JJ. CS++ is even trickier to teach than C. Putting together CS2 C++ material would have taken my complete focus, pushing JJ even further behind schedule.

V: How do you perceive CS1 to have gone? What has been the majority opinion among faculty as to how the course went? How do you think the students felt about it?

E: These questions are difficult to answer. Personally, I know the class could have gone better (something I say after every term). Initial meetings had two purposes: preparation and I remained positive until realizing how little computer science students actually were learning while dealing with the distractions of C. Learning C++, however, is also quite a valuable skill. I cannot speak for the faculty or the students.

V: One major complaint from students seems to be that your course wasn’t well planned. It seemed like there were too many changes in a short time. Do you think so?

E: The first time material is presented is always tough. Changes during week two does not it any easier. I had plenty of time, over a year from initial discussions with the CS department, to prepare for six weeks of JJ and twenty-four weeks of Java. Of course, life is what happens when you are busy making other plans

V: There has been a huge furor among the students about using JJ as the introductory language. Being the ‘father of JJ’, how do you feel about it? What do you think went wrong? You feel strongly about how useful JJ is... but why is it rejected by many students? What are you going to do to change that?

E: Computer science is changing, regardless of JJ or Caltech. I do not take attitudes personally because if it is not JJ it will be something else. I heard there was a stir at Caltech when Fortran was replaced (ironically, replacing JJ).

Computer science is changing, regardless of JJ or Caltech. I do not take attitudes personally because if it is not JJ it will be something else.

V: Do you plan to teach any courses next term? Do you plan to take over CS1, 2 and 3 next year? Will you still use JJ for that?

E: Nothing has presented itself for next term. As for next year, I expect that there are many candidates for CS1, 2 and 3. I may be one of them. Yes, I would want to use JJ for the first half of CS1, but not if the second half uses C. It is more likely that I would teach next year and use JJ that it would be something new, something other than CS1.

V: You are at Caltech as a lecturer, a position that is reviewed every year. What do you think is the chances that you will get a positive review if your first ever course here wasn’t a big success? (If you DO think it was a success for that way?) How do you rate your chances of being at Caltech next year?

E: I would like to offer a valuable class next year. As mentioned, it would have to be something new. I cannot predict the chances of this happening.

V: What are you doing these days? Future plans? What is the future for JJ?

E: We are announcing JJ soon. My plans are to follow JJ as long as it is enjoyable.

V: Is there anything you would like CS students to know? Any comments to those who were somewhat disgruntled with CS1?

E: Today's CS students are entering at an exciting time. There are incredible opportunities for programmers and practically anybody creative who uses a computer. Beware of anything old (like me) or limiting (like this sentence). Those disgruntled with CS1 hopefully have already talked to me or are hopefully enjoying CS2.

V: You don’t need to answer this if you don’t want to. Did all this controversy (if it was one) have anything to do with the change in your appearance - the beard and so forth?

E: Absolutely. With all that controversy, I somehow mis-placed my razor.

V: Thank you.

And that was it. David Epstein, straightforward and humorous. The interview did put a few things in perspective: It does have a story to tell about Fortran and C on the Caltech campus. It would be an interesting wait, to see if JJ does the same thing to C. And as you can safely bet, your own 'Tech' will be there to put it all in perspective.
In essence, his personality and voice is layered on top of Malkovich's and the surreal effect of overlapping mental states in a single physical entity is represented by an endearing, blurry halo effect, so that movie in all its originality doesn't even feel like cinema any more.
**Noted Vegetarian Author and Activist Howard Lyman Speaks at Caltech**

**by Michael Piwek and Stephanie Kovalchik**

On Wednesday, January 26, vegetarian, environmental activist, and author Howard Lyman spoke to a packed room during a noon lecture organized by the Caltech Vegetarian Club.

The event, held in the Winnett Lounge, was also sponsored by the Caltech Y, the Wellness Week Program, and ASCIT.

Lyman is the author of _Mad Cowboy_: Plain Truth from the Cattle Rancher Who Won't Eat Meat_. A former fourth-generation cattle rancher from Montana, he is perhaps an unlikely advocate of an organic, plant-based diet. Yet few would deny his familiarity and understanding of the cattle and farming industry; and based on his nearly 40 years of experience in agriculture, he now states that current agricultural practice is not sustainable.

Citing the facts that 16 pounds of grain are required to produce 1 pound of beef and that the same amount of grain could feed 32 people per day if they ate the grain directly, Howard made the point that a diet based on animal consumption is not efficient nor environmentally sound.

Based on years of research on the matter, Lyman asserted that people with a vegetarian diet have longer and healthier lives than those who do not. He makes the case for a plant-based diet and antibiotics concerns. He stated that on farms, where women who consume dairy products are seven times more likely to develop breast cancer than women who don’t, and that vegetarians are less than half as likely as non-vegetarians to develop heart disease.

Lyman rails against the modern agriculture industry practice of factory farming, in which animals are injected with antibiotics and hormones to increase yield.

As a result of his appearance and Oprah’s remark, Lyman and Winfrey were sued by a group of Texas cattle ranchers under a Texas law which forbids anyone from “knowingly making false statements” about agricultural products. In 1998, Lyman and Winfrey won the suit in a Federal court in Amarillo, Texas, in the heart of cattle ranching country.

Lyman is the president of EarthSave International, a non-profit organization which “promotes food choices that are healthy for people and the planet.” The organization was founded in 1988 by John Robbins, author of the book _Diet for a New America._

As he told the jury in Amarillo, he said again on Wednesday, “The thing I am most proud of is that no animal has to die for me to live.”

**Minutes of the ASCIT BoD, January 17, 1999**

**ASCI Minutes**

**SCIT Minutes**

Present: BoD minus Danny, Stephanie Kovalchik, Marcel Gavrilov, Tim Crosby

Meeting called to order at 22:07.

Dealing with Guests

Stephanie, representing the Vegetarian Club, requests $100 to fund Howard Lyman, the cattle-rancher turned vegan, to speak on February 26th at Winnett as part of Wellness week.

Marcel requests $30 for another Coffeehouse party for the Saturday, January 29, 2000.

Tim discusses the movie situation with us. Financially, adding up the money in the Bank of America account and in the cash boxes and subtracting the money owed to Caltech, the movies account is approximately $5600.

The BoD discusses with him the details of moving ASCIT movies to showing videos in Moore. Gurt is responsible for starting to show these movies in Moore. We also plan to move forward in making the Video/DVD library available to all ASCIT members.

Project Reports

Copier - Chris says that the copier works on ID cards. Instructions for use are posted in the mail room.

Meeting closed at 22:41.

BoD approves $100 for Vegetarian Club speaker H. Lyman to come during Wellness week.

BoD approves $150 for a second Coffeehouse party with the condition of increased attendance for further funding.

Meeting adjourned at 22:50.

Respectfully submitted,

Hanna Kim

ASCI Secretary

**Washington:** President Clinton opened his State of the Union address by touting economic prosperity and so-called social background, implying that the state of the country is stronger than ever. He gave credit for this to the American people. But is the country for a higher investment in education, especially for low-income children, better teachers, more internet connection in schools and a tax deduction “to make four years of college affordable for all.” He also talked about medical insurance for uninsured parents and their kids.

**Beef - It’s What’s For Dinner:** Japanese scientists have successfully cloned a clone of a bull. This is the first time a large animal has been cloned. American scientists have cloned clones of mice. The effort is part of a study determined to look at the health and aging of cloned animals, as there has been speculation that cloned counterparts may not live as long. The purpose of the study? Better beef. “Our objective is to produce good cattle consistently. If there is a stab that’s the highest quality, we want that bull to be available more widely,” said Norio Tabara of the Kagoshima Prefectural Cattle Breeding Farm. Inferior inbreeding procedure could accelerate breeding, as bulls can be cloned as early as 3 months, while it typically takes about 14 years for bulls to mate on their own.
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Well! quite a week was the week that was, what with the sudden visit of President Clinton to Caltech. Whatever your political inclinations, a visit by the head of state is a rare and exciting occasion. Most students won’t know, but the last such visit was one by Pres. Bush, who spoke at Graduation in ’91. That was when he was hugged by a graduating Senior, Jack Prater, to the surprise and consternation of the Secret Service. This was also the occasion when many sported a sprig of broccoli for which the President had expressed an aversion. Considering the logistics of making a presidential visit proceed smoothly, especially on very brief notice, one can only praise all those involved in making last Friday’s a go. From my peripheral perspective, everything went as expected from a well-etched, if rarely used, machine.

The President’s visit was a great honor for Caltech. Of course, we will be cocky enough to declare it was a well-deserved honor, but nevertheless one that was not quite expected. There could arguably have been other venues for announcing planned budget increases for science. But then the President reported that science maven Al Gore himself approved of his coming, even though, as a Harvard man (Gore received a degree in government with honors from Harvard University in 1969), he could have been upset that Caltech beat Harvard as #1.

Not only did the President come across the country for his announcement, he also brought along dignitaries such as Energy Secretary Elliott Richardson, Neil Lane, his Science Advisor, and Rita Colwell, the director of the National Science Foundation. There were also representatives (both Dorns. and Reps.) from districts in the area (Juanita Millender-McDonald, Joe Baca, and David Dreier). Surely this was a clear indication of the importance of the occasion in the President’s mind. Caltech reciprocated by solidly packing Beckman Auditorium with students, staff, professors and trustees.

The day before the ceremony, rumor had it that the President would be introduced by a “common” person. It turns out that this rumor was accurate. There is nothing common about either David Baltimore, Caltech’s own President, or the chairman of the Board of Trustees, Gordon Moore. Mr. Moore gave the audience a tidbit of his own when he confessed that, at the risk of disillusioning the audience, he had not expected “his law” to be accurate, or predictive past a decade or so.

I believe that all present were impressed by the depth and breadth of the President’s knowledge about Caltech, the achievements of its faculty and about science in general. Not bad for someone who claims to be scientifically “challenged.” Even if the speech was written by others, his vital and animated presentation made it obvious that the President did indeed have a deep interest and concern about the topics he discussed. I was a bit puzzled by how little hard data was proffered. 2.8 billion increase for science in general, including a 1 billion increase for the NII budget, 675 million for NSF; 500 million for nanotechnology (with a salute to Richard Feynman), and unspecified increases for information technology, space exploration, cleaner sources of energy etc. If notes are correct, that was it. The rest was a collection of anecdotes, and humorous gossip about hilarious lunches with Al Gore and what Einstein said when sent back to earth for the Millennium (an IQ of 40 suffices for a political career). There were general statements about what would be important, wise, appropriate. Making education more affordable, increasing help as costs increase, making college tuition tax deductible, supporting the entry and retention of minority students into education. Doing more to explain better why we need research. That it is the basis for our future. As an example, early support of the Internet, when it was an esoteric way of communications between a favored few, led to today’s explosion in “ever-e-things.”

E-nough! Perhaps it was just as well to leave out details. They are hard to follow on the fly. It would have been necessary to distribute a breakdown so people could follow on paper what was being said. One must also ask about the importance of such pronouncements by the President. He is going out of Office next January, and the Budget is likely to be extensively reworked by his successor, starting the day after the election. So, in fact, going into great detail would have been a futile exercise. In fact the whole visit makes some sense as a way to compliment Caltech’s achievements, rather than a true pronouncement of a definite plan for support of science. Without casting doubt on the sincerity of the plans, one must surely look at them more as a statement of the general wishes of the present administration, than a real effort at outlining a budget. The best outcome of course would be that, whatever administration follows the present one, it will want to do even better in the support of science in general.

So we can thank President Clinton, for the signal honor to have taken the time to come here to state his warm wishes for science. We must also express thanks for the opportunity that our students (and faculty and staff) had, to see, hear, for many to talk personally and even shake hands with the leader of the nation. It was an exciting experience. Thank you Mr. President.

And to all of you,

A bientôt!

Jean-Paul Revel
Dean of Students

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January 28, 1999

The California Tech
Be a part of the earthquake team.

The U.S. Geological Survey (on campus) is looking for a part-time intern for ongoing monitoring and data collection as part of the Automatic Seismic Network, web-based system for gathering post-earthquake shaking and damage data (see http://pasadena.usgs.gov/cvcc.htm). Summer work also possible. More info thru Career Center. Email walld@caltech.edu.

Caltech guitar classes for the winter quarter will meet on Tuesday and Thursday, starting on January 11 as follows: Beginning Guitar Class 4:30-5:30 p.m. in Beckman Auditorium; Advanced Guitar Class 3-4 p.m. in Advanced Auditorium; Beginning Guitar Class 5:30-6:30 p.m. Classical and flamenco repertoires are explored, but techniques transfer to other styles of guitar. The Beginning Class includes a jazz/folk chord system. Classes are free to Caltech students and other members of the Caltech community (space permitting). Undergrads can register for 1-credit units of credit. The instructor, Daryl Denning, has an international background in performance and recording (two of his CDs are available in the Bookstore). Mr. Denning can be reached at 323-465-0851, or by email at ddenning@caltech.edu. The guitar home page is at http://www.caltech.edu/~music/guitar.html.

The California TECH is experiencing technical difficulties. Please forward all mints to tech@alc.net. We the editors apologize for any inconvenience.

Correction: Last week, U.S. Geological Survey contact Mr. Wald's email was incorrectly printed as wald@gs.caltech.edu. The correct email is walld@caltech.edu.

Camer Music Concert. Dearney Hall, Thursday, January 26, 8:00 to 10:00 p.m. - Directed by Delores Bing, performance includes music by Telemann, Couperin, Berthever, and more. Further information can be obtained at 1-888-2CALTECH, or visit http://tickets.caltech.edu.

Wellness Week Latin Dance Night at Avery Dining Hall, Fri., Jan. 27, 8-10:30 p.m., special performance by salsa partner Laura Powell and Eko Buduguroho, refreshments served.

Patrick Bab, Sat., Jan. 29, 8:00 to 10:30 p.m., Dabney Lounge, features a one-man performance of O'Carolan's Farewell to Music, $12.54 admission, call 1-888-2CALTECH.

Eth-Noh-Tech will present a family program on Sat., Jan. 29, at 7 p.m. in Caltech's Beckman Auditorium. Eth-Noh-Tech means the weaving of cultures, East and West, to create new possibilities. Tickets are $10 for adults and $5 for children, call 1-888-2CALTECH or 626-395-4652 for more information.

"Britain's Offshore Islands" to screen at Caltech, Fri., Jan. 28, 8 p.m. in Beckman Auditorium. Rick Rosefeld will narrate this Armchair Adventures travel film. Tickets are $9.90 and $7.00, and can be purchased at the Caltech Ticket Office, 332 S Mighigan Ave, Pasadena, and also at Ticketmaster, call 1-888-2CALTECH or 626-395-4652 for more information.

The Super Bowl Alternative Concert IV, Sun., Jan. 30, 3:30 to 5:30 p.m, performance of music by DVok aid, Mozart, Holst, and Schumann, call 1-888-2CALTECH for more information.

The Jewish Loan Association is offering interest-free student loans to qualified individuals for tuition, books and supplies, and living expenses. Students must have completed at least one year of undergraduate study and have a 2.0 GPA. For further information, please contact the Jewish Loan Association at 213-761-8380 or 818-464-3331.

The National Academy for Nuclear Energy is offering $2,500 scholarships to eligible students majoring in nuclear engineering, power generation health physics, or chemical, electrical, or mechanical engineering, power generation health physics, for chemical, electrical, or mechanical engineering with or without options. Applicants must be U.S. citizens or U.S. nationals, considering a career in the nuclear power industry, minimum GPA of 3.5 as of the Fall of 2000, at least one but not more than three academic years of study remaining to graduation, and free of post-college obligations or active military service. Applications are available in the Financial Aid Office.

Further information you may contact: S. Natraj, Academic Coordinator, Training Scholarship Program, 700 Galleria Parkway, Atlanta, GA 30339-5957 or via email at S.Natraj@caltech.edu. Entries must be submitted to the Financial Aid Office by January 29, 2000.

The Southern California Chapter of Women in Cable & Telemcomunications is offering a $1,000 scholarship to outstanding female undergraduate residing in Southern California. Applicants must plan to pursue a career in the telecommunications field, be a junior or senior by January 1, 2000, have a 3.0 or higher GPA, and be active in at least one school approved campus organization or in community service. Applications are available in the Financial Aid Office. Applications must be submitted and sent to: The Southern California Chapter of Women in Cable & Telecommunications, c/o Pamela Drake, Avenue TV Cable Service, Inc., P.O. Box 1458, Ventura, CA 93002. Entries must be submitted to the Southern California Chapter of Women in Cable & Telecommunications by January 31, 2000.

The Asian and Pacific Americans in Higher Education (APAHIE) is pleased to announce that applications are now available for the 2000-2001 APAHIE Scholarship Program. Applicants must be California residents, currently attending a California college or university, plan to enroll at least half time in the Fall 2000 term (the award year), and maintain satisfactory academic progress. Additionally, applicants must be 21 years old by September 1, 2000, have undergone special life circumstances and unusual hardships, have a 3.5 or higher GPA, and demonstrate a genuine interest in a career as a high school teacher, with the goal of improving the educational opportunities of students in the school system. Applications are available at http://www.caltech.edu/~scholarship/ and must be submitted to the Financial Aid Office by February 1, 2000.

The American Society of Naval Engineers (ASNE) is offering $2,500 scholarship awards for undergraduate and $3,500 for graduate students for the 2000-2001 academic year. Applicants must be an U.S. citizen and demonstrate a genuine interest in a careerм в naval engineering. In addition to the application form, a current academic transcript, and two letters of recommendation. Applications are available in the Financial Aid Office and must be submitted to the Committee by February 15, 2000.

The American Society of Naval Engineers (ASNE) is offering $2,500 Scholarship awards for undergraduate and $3,500 for graduate students for the 2000-2001 academic year. Applicants must be an U.S. citizen and demonstrate a genuine interest in a career в naval engineering. In addition to the application form, a current academic transcript, and two letters of recommendation. Applications are available in the Financial Aid Office and must be submitted to the Committee by February 15, 2000.

The Korean American Scholarship Foundation (KASF) is accepting applications for the 2000-2001 academic year. A full-time student of Korean American heritage must be a junior or senior by January 1, 2000, have a 3.0 or higher GPA, be currently enrolled in an institution of higher education, and clear root of Korean American heritage and culture. The applicant must be a resident of the Los Angeles area. Applications are available at the KASF office or via the website at www.kasf.org. Entries must be submitted to KASF by February 15, 2000.

The Dennis W. Cabaret Scholarship Committee is pleased to announce the availability of scholarships for students whose permanent address is in Orange County. Applications must have completed at least one year of college. Students must have 3.0 or higher GPA, currently enrolled in an institution of higher education, and clear roots of Korean American heritage and culture. The applicant must be a resident of the Los Angeles area. Applications are available in the Financial Aid Office. Complete applications must be submitted to Dennis W. Cabaret Scholarship, c/o Thomas J. Peterson, 2821 Cassia St. Newport Beach, CA 92666. Entries must be postmarked by February 29, 2000.

To submit an event for the Mints, contact tech@alc.net or a.mints to mail your announcement to Caltech 40-58 Atr. Mints. Submissions of mat notes for the Mints are preferred. The editors reserve the right to edit and abridge all material. Deadline is noon Wednesday. Unless specified, all mints run for two weeks.


The American Meteorological Society is pleased to announce applications for the 2000-01 AMS Industry Undergraduate Scholarships in the atmospheric and related oceanic and hydrologic sciences. Prospective candidates from the fields of earth sciences and related fields who intend to pursue careers in the atmospheric and oceanic sciences are encouraged to apply. The award is based on merit and awarded to students who demonstrate potential for accomplishment in these fields. Applicants must have successfully completed two years of study by August 2000 at an accredited institution with a minimum GPA of 3.0. Applications can be obtained from the AMS web site at www.ametsoc.org/AMS. Any questions may be directed to Donna Fernandez, 617-227-2426 x 234, dfernandez@ametsoc.org or Stephanie Armstrong, 617-227-2426 x 235, a.armstrong@ametsoc.org. Applications must be submitted by February 25, 2000.