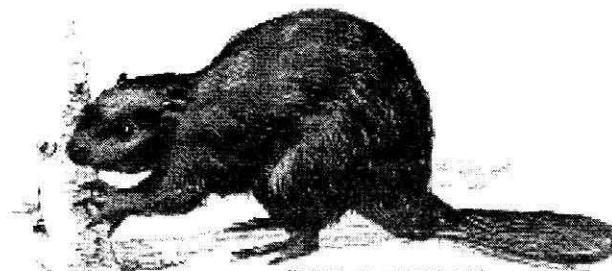


**mudeo**

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see page 2

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THE CALIFORNIA TECH

VOLUME C, NUMBER 26

PASADENA, CALIFORNIA

FRIDAY, APRIL 30, 1999

**TOM BROKAW
TO SPEAK AT
COMMENCEMENT**

COURTESY PUBLIC RELATIONS

Tom Brokaw, anchor and managing editor of *NBC Nightly News* with Tom Brokaw, will be the 1999 commencement speaker at the California Institute of Technology.

This year's ceremony begins at 10 a.m., Friday, June 11, on Beckman Mall on the Caltech campus. Approximately 200 undergraduates and 330 graduates are expected to receive their degrees.

The sole anchor of weekday *NBC Nightly News* since 1983, Brokaw has also anchored *The Brokaw Report* (1992-93), a series of prime-time specials that examined critical issues facing the nation. He also coanchored the prime-time news magazine *Now with Tom Brokaw and Katie Couric* (1993-94).

In addition, Brokaw has played an active role in many other prime-time NBC news specials and in-depth reports.

In June 1997, he anchored the *Dateline NBC* documentary special, "Tom Brokaw Reports: Why Can't We Live Together," which examined the hidden realities of racial separation in America's suburbs. Brokaw earned an Alfred I. duPont-Columbia University Award for excellence in broadcast journalism for this special report.

Brokaw has received numerous awards for his work, including a Peabody for his report entitled "To Be an American." He also received an Emmy for his "China in Crisis" special report, and for his reporting on the 1992 floods in the Midwest. In 1990, he won a National Headliner Award from the National Conference of Christians and Jews for advancing the understanding of religion, race, and ethnicity.

In December 1998, Brokaw wrote his first book, now a number-one bestseller, *The Greatest Generation*, an exquisitely written account of the generation of Americans born in the 1920s who came of age during the Great Depression, fought in the Second World War, and went on to build America. *The Greatest Generation* was also the subject

Science journalism gets a boost

Caltech's David Goodstein to lead summer colloquium on science in the media

BY SHANNON STEWMAN

A recent study by the Freedom Forum, formerly the Gannett Foundation, conducted at the Media Study Center of Columbia University recently concluded that a gap of understanding between journalists and scientists definitely exists. In an effort to improve the quality of science reporting in journalism and to narrow this gap, Caltech and the Foundation for American Communications (FACS) have launched an annual week-long program to improve journalists' understanding of science.

The program, called the Jack R. Howard Science Institute for Journalists, will be held on the Caltech campus this June. The week-long institute will involve touring of labs and

other facilities and interaction with faculty, from Caltech and other academic institutions. The Institute will include sessions about computer science, biotechnology, and the Jet Propulsion Lab. Included among

often don't have the necessary background to explain the facts on scientific studies to the news-conscious public. Since science has, and will continue, to take a prominent role in improving public welfare and changing so-

science and technology," and, in addition, is "the leading academic institution of its type."

Dr. David Goodstein, the director of the Institute, was chosen to lead this effort. He was strongly recommended by Caltech because of his background in helping the public to better understand science.

FACS just began accepting applications for attendance, so no definite attendees have been accepted, but media representatives from institutions like the New York

Times, the L.A. Times, CNN, and the Associated Press have historically attended FACS conferences.

FACS is an institute devoted to the improvement of journalism, and has been in ex-

PLEASE SEE FACS ON PAGE 2

"[Caltech] provides the kind of expertise that could ultimately improve the public's understanding of science and technology."

- Jack Cox, President of FACS

the guest academics will be Dr. John Paulos of Temple University, who has written *Mathematicians Read Newspapers*, a critical evaluation of mathematics and newspaper reporting.

Jack Cox, President of FACS, explains that journalists

society, a better understanding between scientists and journalists is viewed as essential by both Caltech and FACS.

Caltech, according to Cox, "provides the kind of expertise that could ultimately improve the public's understanding of

Professor Emeritus dies

Donald Hudson pioneered earthquake eng.

BY TECH STAFF

Donald Hudson, professor emeritus of mechanics engineering and applied mechanics at Caltech, died Sunday, April 25th, 1999. He was 83.

A pioneer in the field of earthquake engineering, Hudson developed or codeveloped a number of instruments used in the study and analysis of seismic motions. These devices provided information vital in designing quake-resistant buildings, bridges and dams.

A native of Alma, Michigan, Hudson graduated from Pasadena High School and earned his bachelor's, master's and PhD degrees from Caltech. He joined its faculty as an assistant professor in 1943, became a full professor in 1955 and served on the faculty until he retired with emeritus status in 1981.

His major programs of investigation included dynamic measurements in the field of vibrations and experimental stress analysis, general analysis in structural dynamics and vibrations, and analytical and experi-

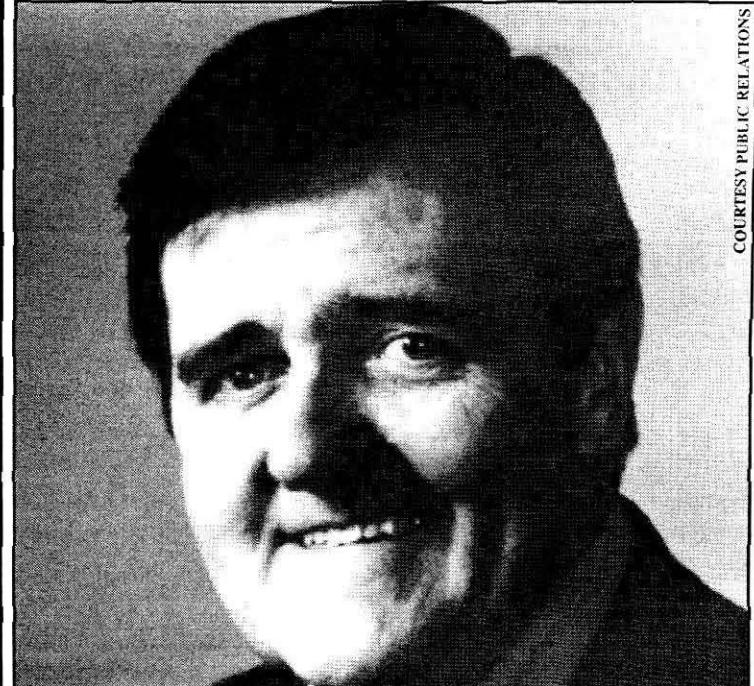
mental methods in earthquake engineering and engineering seismology.

During World War II, he worked on projects involving rocketry and underwater ordnance development through the Navy's Office of Research and Inventions. His other professional activities outside Caltech included a stay at the University of Roorkee in India, where he developed the postgraduate program in mechanical engineering, and a tour of Central and South America with UNESCO to improve earthquake safety.

In 1973, Hudson was elected to the National Academy of Engineering. He was also a fellow of the American Society of Mechanical Engineers, and a member of the American Geophysical Union, the Seismological Society of America, and the Earthquake Engineering Research Institute.

He coauthored two important textbooks with George Housner, a longtime colleague at Caltech. These were *Applied Mechanics - Statics and Applied Mechanics - Dynamics*.

Mark Shields speaks at Caltech



Mark Shields, a renowned columnist and commentator, will speak May 6 at 8 p.m. in Beckman Auditorium.

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FACS

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istence for twenty-three years. During its existence its conferences have been attended by over ten-thousand journalists from every major news organization in the United States. In addition, FACS publishes the *Media Guide for Academics* to help scientists better understand journalism.

FACS hopes to engage in future endeavors to help bridge the gap, in training and methods, between journalists and scientists. Besides educating journalists about science, FACS hopes the institute will create ties between scientists and journalists which will last well after the institute, to foster contact between the two communities.

Brokaw joined NBC News in 1966, reporting from Califor-

SPEAKER: TOM BROKAW

CONTINUED FROM PAGE 1

of an NBC News documentary special that aired in January 1999.

Brokaw has received honorary degrees from a number of universities, including Notre Dame, Duke University, Washington University in St. Louis, Boston College, the University of Pennsylvania, and Fairfield University. He is on the board of trustees of the University of South Dakota, his alma mater; the Norton Simon Museum; and the American Museum of Natural History. He also serves on the Howard University School of Communications Board of Visitors.

Brokaw joined NBC News in 1966, reporting from Califor-

nia and anchoring for KNBC, the NBC television station in Los Angeles. From 1973 to 1976 he was NBC's White House correspondent, and from 1976 to 1981, he anchored NBC News' *Today*. An acclaimed political reporter, Brokaw has covered every presidential election since 1968. Brokaw began his career in journalism at KMTV, Omaha, after graduating from the University of South Dakota in 1962. In 1965 he anchored the late-evening news on WSB-TV in Atlanta.

The decision confirming Brokaw as this year's commencement speaker was finalized on Wednesday.

Students protest U.S. bombing in Iraq

BY BYRON PILHOUR

The Caltech Progressive Coalition, consisting of students, faculty, and staff, tabled on Tuesday as part of a National Day of Action against the U.S.-led sanctions and bombing war against Iraq. The CPC passed out leaflets which deplored the humanitarian impact of the sanctions and questioned the morality, legality, and effectiveness of current U.S. policy towards Iraq.

A new group on campus, the CPC welcomes members of the Caltech community to join them in working for peace, human rights, and economic justice.

Like the CPC, students throughout the country are participating in marches, rallies, vigils, teach-ins, circulating petitions and otherwise joining forces to pressure the US government to end its support for sanctions upon Iraq that organizers of the activities say have caused the deaths of 1.2 million Iraqi people. According to the statement that called for the week of actions from the Student Committee of the Iraq Action Coalition:

"For more than eight years, the US government has been waging a silent war against the people of Iraq. This month, the US-led sanctions will kill 4,500 infants and toddlers, according to UNICEF reports. Today, this

policy will kill 250 people in Iraq, as it did yesterday... and as it will tomorrow. Since 1991, more than one million people have died due to the scarcity of food and medicine and the spread of water-borne diseases - all direct consequences of the sanctions.

And what is the US government's response? When asked on "60 Minutes" about the death of half a million children in Iraq - more children than died in Hiroshima, Madeline Albright responded 'we think the price is worth it.'

We say NO! The death of one child is a death too many."

According to Will Youmans, a national coordinator of the events and a student at University of Michigan, "By joining forces for this week of coordinated action, we aim to speak in a loud voice to policy makers in Washington DC to say "Enough" of the killing in our name. We will no longer stand idly by while the U.S. squeezes the life out of hundreds of thousands of Iraqi children through the dreadful sanctions policy." The University of Michigan was one of the first of many campuses whose student governing bodies passed resolutions calling upon the U.S. government to lift the sanctions imposed upon Iraq.

Rania Masri, another na-

tional coordinator, and a student at North Carolina State University, states "Our reasons for promoting the Days of Action are two fold. We aim to arm ourselves and our fellow students with the facts about the deadly impact of U.S. policy toward Iraq. Once so informed, we will act to organize into an effective force toward ending the U.S. war on the Iraqi people."

According to organizers,

these events culminate several months of heightened student protest against the US policy toward Iraq. The organization's statement concluded,

"In recent months, thousands of students have taken steps toward joining the growing movement against the U.S. sanctions and bombing war on Iraq. Through campus resolutions against the sanctions, vigils, demonstrations and marches, teach-ins, panel discussions and statements in campus newspapers, students are building a unified movement to end the sanctions. Tens of thousands of students have attended presentations by sanctions opponents Denis Haliday, Phyllis Bennis, Ramsey Clark, Kathy Kelly and others on campuses throughout the country."

For more information, see the CPC's web site at <http://www.ugcs.caltech.edu/~progress/>



Caltech students accost passersby, arguing for a more just U.S. policy toward Iraq.

Magnificent Mudeo



PHOTO BY ERIK DILL

Only the fearless went. Engineers, scientists, and mudlovers all gathered at Del Mar and Holliston to celebrate ... mud. And in the end, all were joyfully brought closer to their primordial roots through this ritual of earthly proportions.

There were games, conversations, mud-slingings, wrestling matches, etc. It was about as much fun as you could have in any highly viscous medium. Everyone came home caked, but satisfied.

All were gloomy to have to go back home, but still, for that one afternoon, all were equal, and what more can you ask for than that?

LETTER TO THE EDITOR

The Final Hope

Fellow Techers,

The dullness of our lives and the apathy of our leaders have become appalling. All around us hangs nothing but the ghost of the paltry past. Fun has 'flamed out'. Interest is fading out. Relaxation is out. We are heading into the void and this must stop. There is only one way out: REVOLUTION! Therefore spurred on by loyal supporters, I will soon establish a new, fresh order - of the Techers, by the Techers, for the Techers. It is our last stand, our final hope to control the advancing wake of indifference. In it lies our triumph and glory. So be patient and endure on as your reward for years of silent suffering is very close. Victory is at our mercy. Vive le coup d'état!

Thank you,
Dinkar Gupta.

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or by electronic mail to editors@tech.caltech.edu.

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I'm sorry Dave, I'm afraid I can't do that.

A.S.C.I.T.

Minutes

APRIL 19, 1999

Present: BoD (Melvin in at 22:11, Jaideep sneaks in behind the secretary), Kevin Babcock, Marie Fox, Paul Novak, Dennis Fong, Brian Allen Palmer I, Aaron Davies, Jenny Ives, Erik Streed, Autumn Looijen, John Chodera, Robert Enright, Wren Montgomery, Tim Crosby, Walt Ogburn, Christian Thomas, Jonathan Adams, Travis Hime, Joseph Schaeffer, Rafi Rubin, Katy Issacs, Mike Astle, Greg Fricke

Meeting called at 22:04.

Dealing with Guests

Jenny submits a budget request form for the Newman Center and briefly goes over their budget and plans for the next year.

Paul, Dennis, Brian, and Aaron (and Marie?) request funding for the Caltech Caucasian Club (CCC). They answer some questions about the BoD about the club's purpose and its activities and their coordination and the BoD offers some of its opinions on what they were looking for in funding decisions for organizations. The BoD requests a new budget request with itemized allocations for specific events and expected attendance at planned events for the coming year.

Tim Crosby requests the budget requested though not allocated for this term in order to show weekly ASCIT movies as

planned. The BoD approves it and Danny writes the check requested for this term.

Joseph also brings up the overlap in the C.L.U.E. and parts of the proposed Web Project. Baldeep mentions that this project was proposed with the vision of a more efficient sharing of information between modules. Wren and Rafi question the necessity for this sharing of information and its general necessity.

Wren, Erik, Autumn, Christian and others bring up the web project budget allocation. (Erik is here for the reason of "your stupidity" with reference to the ASCIT BoD.) The concern of the relative high amount allotted for this project as compared to the editor's salaries is one point made. Baldeep points out that the BoD had the money at the time of allocation, thought that it was a good idea to pursue a swank website, and allocated such that money wouldn't be the problem in getting it done. He also notes that an allocation is not necessarily an actual amount to be spent.

Erik also emphasizes the benefits of work study multipliers in saving about 75% in cost. Christian mentions his concern that an excess amount of money was allocated for the web project also and questions the value of an online book market. Others support his opinion in stating that the school is too small to necessitate the need for one. Baldeep closes that the questions about the web project's merits and funding will be included in the upcoming ASCIT survey so that the BoD can get feedback on any adjustments needed in the budget.

Concerns about the \$4000 History/Archive project for ASCIT are also questioned, especially with regards to its necessity. The BoD counters that there is much valuable, interesting information contained in the archives but there is a lot to go through which is not too well organized at this point. By providing it as a job, we can ensure that it will get worked on though it may be considered a long term project.

Wren questions the interest in a History of ASCIT compilation and demands to look through some minutes from the eighties. She proceeds to find record of Caltech cheerleaders did not receive as much funding as they requested. Really, what could be more interesting than that? In any case, Wren went on to look through the ASCIT minutes of old for the next half hour, pointing out how "boring" they were at several points along the way.

Kevin suggests that at perhaps we could have a preliminary budget meeting after talking to all of the club representatives and looking through their budget proposals and consequently have another meeting to make final decisions. It doesn't seem very feasible for the ASCIT budget because there is just not enough time since we spent approximately nearly 12 hours at the last single budget meeting.

Marie requested money for TACIT and reports more specific budget expenditures from the past year with similar expenditures for the upcoming year.

Projects Reports

ASCIT Survey - Baldeep passes out a rough draft of an

ASCIT survey to distributed soon including several questions with respect to the ASCIT budget for feedback from the BoD. He and Alan will finalize it and distribute it soon.

Archive Project - Baldeep has mentioned that it is important to keep track of the minutes since a good portion of the IHC minutes have been lost. Apparently Joanne Jang has some of the past ASCIT minutes and there may be some hiding out in Ricketts as well. He has also received letters from people interested in working part time on the project.

Video Library - There seems to still be some question about the legality of a video library open to use by ASCIT members for no rental charge. Alan will look into this issue further.

Publications Evil Overlord - Baldeep talked to Hall Daily about possibly creating a position possibly appointed by the publications editors in consultation with the BoD in order to facilitate communication between the BoD and the publications and make sure the publications are running smoothly.

ASCIT Van - Jeremiah is going about fixing the catalytic converter because of a factory recall and then will proceed with the smog check proceedings.

ASCIT Formal - Garrett is still in the midst of conversation with Tom Mannion in deciding between the Ritz Carlton Huntington and the Ritz Carlton Marina Del Rey.

Housing Cards - They are coming...soon. They are really going through final revisions and the printers but the exact dates are vague. By the time you read this however, you

should have already received them. There seem to be some ambiguities about how the room picks work after Jaideep's Tech article so the house presidents will probably make dinner announcements to try and clarify the procedure. It will also be explained on the IHC webpage (www.ugcs.caltech.edu/~ihc)

Faculty-Student Committees - Interviews will be held by the IHC on the weekend of May 8-9 so signups will go up approximately a week before.

Club Accounts - There seems to be some problems in paying the clubs directly. Danny will find out from the Caltech Credit Union what exactly is required for club accounts.

"If the anti-ASCIT protesters have specific issues they would like to address, they should come talk to us at our next meeting" - Jaideep

Prefrosh Party - Many people (even upperclassmen) say that the party went well.

ARC - Lunch meetings are planned for the ARC, with future meetings also with Jim Bower.

Possible Tide - Carol Casey has been contacted about possibly making the ASCIT Archive project into a TIDE.

Meeting closes at 00:05.

The BoD approves \$400 for TACIT and \$120 for the Newman Center.

Just in case anyone was wondering, Jaideep said beige, B-E-I-G-E, and not page.

Respectfully submitted,

Hanna Kim
ASCIT secretary

Arc Minutes

April 23, 1999

Present: Clifford Hicks, Marc Favata, Melvin Leok, Kjerstin Easton, Al Valdivia, Matthew Reese.

Student-Faculty Conference

Over the next few meetings, we'll decide which committees to form.

Representatives

Ask around about topics.

Matt will go over previous SFSC minutes. KJ will talk to Jim Bower and Devi about topics raised at first term CAPSI dinner.

ARC web page

Minutes will be posted there (and in the Tech) in addition to ARC email.

ASCIT Teaching Awards

Boxes and forms for nominations will appear in the Hovses and Avery post-midterms.

Student Advisory System

Melvin's working on it....

ARC Reps at Large

We'll worry about them after all the new hovse reps are in.

Meeting location

Friday, noon, SAC courtyard. If it's raining, we'll move into the Blacker dining hall.

Respectfully submitted,

Kjerstin I. Easton

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FEATURES



The Ticket Stub

By Justin Ho

Ten Things I Hate About You
(B-)

Rated PG-13 for a wildly awesome keg party, but this much hedonism can be a bad thing, so don't bring little kids to watch it

Everyone at some point in their lives encounters an iconoclast, someone overflowing with angst against society, whether it be in the form of a street corner exhorter or Marilyn Manson. There's no denying though, that high school is brimming with them. Those awkward years of adolescence foster either a rebelliousness against parents and adults, with that pleading air of "But you just don't understand", or a rebellion against the rebellion against mature society, like the Straight Edge. And while the Straight Edge might be just an

other excuse to form a clique, the singularity who manages to isolate herself, or at least keep all the other fraternizers at bay without compromising personal principles of Emersonian individuality or feeling melancholy for falling out of favor of the "in" crowd is so much cooler, though that person has the potential to be, well, a "heinous bitch".

The first half of "10 Things I Hate About You" is clever, eloquent, and entertaining thanks in part to the high caliber SAT-friendly vocabulary words streaming from Cat's (Julia Stiles) mouth. Her sophisticated demeanor and almost trampling intelligence belie her upbringing beside all the insipid pretenders who grace the high hallways which we now label as America's future. But just in

case her wit seems a bit far-fetched, she's got Sarah Lawrence College in mind. Her sarcastic temperaments sting anyone who crosses her path, almost indiscriminately. Even the teacher isn't immune, and has to rely on his authority to send her to the counselor's office, rather than risk unleashing the sardonic wit of male-bashing, mad woman Cat. Her contention: a guy who hit on her last week kicked himself in the balls. Net effect: Cat has a reputation for being tempestuous, to say the least.

But Cat has a little sister, who is, like, the darling of the whole school, being Sketcher and Prada clad and all. The only caveat to would-be admirers though: while all the teenage boys are bubbling about Bianca Bianca, the two sisters are protected, or at least sheltered, from dating. When daddy isn't OGBYNing, he is paranoidly isolating his little girl from the hordes of impregnating boys. For Cat, there's no conflict since the restrictions only means that she won't be busting any balls today. However, for Bianca, on the brink of being asked as a sophomore to the Prom by the esteemed, uproariously dim-bulbed, narcissist frat boy, tube-sock model, it's torture! And even when daddy modifies the rules of their nun-like existence, the chance of

Bianca's growing up anytime soon seems a distant memory, for who could ever like a shrew?

The other major characters in this motley crew of lovers and haters include yet another Bianca enamorer, though he embodies the geekiness which makes him the unlikely suitor. But his genuine sentimentality makes him a good friend of Bianca under the guise of a French tutor. In order to get a chance of calling Bianca his own, he resorts to that over-used mechanism of teen motives, the bet. Lacking the funds himself, geek-boy and his sidekick lure narcissist frat guy into bribing an aloof, lion-maned Australian into taking the lovely, though despicable, Catarina on a date. Only then will the Bianca prize be available.

True to Shakespeare's tale, the shrew is skeptical at first, but warms quite optimistically to the attention provided by the off-beatish cool, though frighteningly mysterious, Patrick. In the process, Cat doesn't completely lose her angst against teenage conformity and omnipresent peer pressure which jilted her in the past. The baggage is still there, though Catarina learns to indulge herself a bit, and show herself as quite the talented drunk swaying table-top nymph. However she doesn't repudiate all her principles since she's going out with a non-conforming

conundrum like herself, not some pretty guy. Unfortunately, the relationship between Patrick and Cat degenerates into dialogue which constantly sways into "Why are you the way you are?" to which both will answer, tritely, "I don't do what everyone else wants me to do."

The eloquence of the first half fades once Catarina shows that she doesn't have an immutable, sour personality, and the movie loses its unique luster when Cat actually starts showing feelings. Given the fact that the ending isn't about beautiful people ending up with beautiful people, the devices used in this, the era of teensploitation, have unfortunately been over-used. And Patrick, trying too hard to be charming, borders on pathetic. In addition, in trying to be a non-conformist to the high school pop culture, Catarina may distinguish herself in style, but resorts to a lot of tired rhetoric to explain her aloofness. Simply not wanting to do what everyone else does is a bland reason to explain the otherwise scintillating behavior of Mistress Catarina. While the main character may be applauded for not sleeping around, doing the artsy thing, and driving a classic '70s car instead of a pricey Miata, there's something about non-conforming that seems all too familiar. That is, there's conformity in non-conformity.

All You Need is a Date

Hugo Molina 1065 E. Green Street Pasadena

★★★ (out of 4)

BY KEVIN SCALDEFERRI

A new food column has come to the California Tech. Staff gustatory experts will be scouring Pasadena for the good, the bad, and the better-than-board of local dining experiences.

Caltech is fortunate to have several nice restaurants in walking distance. Hugo Molina, which is one of them, is a great place for a date or a special occasion.

The restaurant is elegantly decorated and small without feeling like you're eating in someone's dining room. It's classy but generally avoids the pretentiousness found in most restaurants of this calibre (although one of the specials was Chilean sea bass.) The wait staff was professional and, although clearly under lots of stress from the conference dinner in the second room, well-composed.

The menu consists of Italian-inspired California cuisine. With the exception of the chicken, the entrees appear pretty weird on a first glance down the list. I turned to the pasta and had just decided that

the risotto with Morel mushrooms and crab meat (\$13) looked wonderful when my girlfriend piped up, "I think I'm going to get the risotto." Doh! I ended up choosing the lamb chops with brown rice and pecan compote, baby vegetables and shoestring potatoes with a cabernet sauce (\$22). We split the daily special appetizer, sea scallops with a red and yellow tomato cavasse (which just means they chop them up). There were only 4 scallops, but they were large and perfectly cooked, tender and flavorful. The risotto was richly flavored and almost too much to finish. The lamb chops were tender and cooked just right, although, given the size, one or two more might have been nice. After dinner we finished up with the dark chocolate truffle cake, a dessert with chocolate so rich and dense we weren't sure the two of us could polish it off. But, somehow, we made the sacrifice and pushed our way through the whole thing.

Don't get offended if the waiter doesn't bring you the wine list with your menus. Watching other tables, I deter-

mined that it is, in fact, their standard practice to delay bringing you the wine list until you've had a chance to look over the menu, perhaps so you'll have a better idea what sort of wine you are looking for. While the selection of bottles is respectable, the by-the-glass list leaves something to be desired. While you don't expect it of the best wines, it is reasonable to expect that most of the lower priced bottles will also be available by the glass. Unfortunately, many of the wines on the by-the-glass list fall below the level of anything on the full list. Also, while chardonnay and merlot are currently the rage, it would be nice to have more than one other white and more than one cabernet sauvignon on the list, especially given the presence of a number of dishes with a cabernet sauce on the menu.

Overall, I would definitely recommend Hugo Molina if you are looking for a nice, easy-to-get-to restaurant. It isn't the best restaurant in Pasadena, but it's cheaper than any other nice restaurant within walking distance at \$40 per person including wine, tax and tip.



Last weekend, we held our once a term Broomball. With the demand and popularity of Broomball decreasing, there is talk about holding it only twice a year instead of three times.

Thanks to everyone who came to the Friend's dinner held at the Ath. We enjoyed the music of the thirteen students who performed and the Friends of the Caltech Y had a great time talking to more students than usual.

Christmas in April, held last weekend, will also be held this weekend. On Saturday, a group will be going out to paint a house of an elderly woman in Pasadena. If you're interested in going, contact Athena Castro at castroa@cco now! It will run from approximately 8:00 am to 4:00 pm but you

can arrange to go later or leave early. \$12/hr if you have federal work study.

Mini Decompression will be held at the Y lounge this Sunday at 7:00. We will have more food than last term!!! It will be a pool party so bring your swimsuits, watch movies, eat, and relax.

The **Revlon Run/Walk** will be held May 8th. If you would like to participate in it, the Women's Center is setting up a Caltech Group. YOU DO NOT NEED TO BE A WOMAN TO PARTICIPATE. This is a really fun, great event. We also need volunteers, that will get \$12/hr if they have federal work study. Contact Heather Dean at heaterd@cco for information.

Good Luck on Midterms!

SCIAC Golf finishes

BY JASON CHUA

"Fore!" Yes, indeed, this is the sound one expects to hear from an overzealous golfer firing an errant tee shot toward an approaching group on another fairway. But how often do you hear it called from the fringe of a green as the ball is about to hit a player twenty yards away? Perhaps only in a golf match involving the Caltech golf team.

The 1998-99 season was one of growth and new experiences for the Caltech Golf team. Two returning veterans, Nick Lorenzen and Steven Wexler, along with a veritable slough of new players, including Jacob Lacoutre, Nathan Heick, Jason "chewie" Chua, Brian Palmer, and Benson Muite managed to outscore their opponents at every match this season. The departure of Jacob and Nathan in the middle of the season opened up opportunities for more players to gain experience, such as Dennis Fong and Robbie Metcalf, who provided a spark toward the end of the season, rounding out the team as tour-

nament season approached.

The SCIAC golf season consists of seven dual-matches between school teams and culminates with two 18 hole tournaments and a final, death-defying 36 hole tournament involving all eight teams in the circuit. Hosting one of the 18 holes this year, Caltech dominated as Steven Wexler achieved team medalist status by scoring his best yet on the toughest course in the circuit. Other highlights of the season include Brian Palmer posting his first double-digit score against the Claremont Stags, Nick Lorenzen earning the lowest scoring average for the team, and chewie nearly knocking an innocent bystander unconscious with an errant pitch shot during the dual match against Pomona-Pitzer.

In all honesty, although the undermanned, under-experienced Caltech golf team was unable to post a victory this year, it was indeed a season full of camaraderie and enjoyment. This team is not only a well-scoring team, but also a fun and entertaining one.

Culture Shock

By Cheryl Forest

Capitol Steps

*Friday, April 30th, and Saturday, May 1st 8:00 PM
Beckman Auditorium*

From Bill Clinton to the IRS, the Capitol Steps never run out of fresh material for their hilarious song parodies and political satire. Surgeon General's Warning: The Capitol Steps will cause your sides to split. (C. Everett Koop, 1/6/89)

Markets as Information-Gathering Tools

Charles R. Plott, Edward S. Harkness Professor of Economics and Poli Sci
*Wednesday, May 5 8:00 p.m.
Beckman Auditorium*

Modern research suggests that markets and similar systems have an amazing capacity to gather scattered information like a vacuum cleaner, process it like a statistician, and publicize the results. By reading the signs of system behavior, an "outsider" can detect what "in-

siders" know. It is as if the system knows more than any one individual in the system knows; or, that the system behavior represents some type of collective wisdom. The idea is reflected almost daily, for example, in newspaper accounts that the stock market has "anticipated" profit reports, court decisions, political events, etc. The lecture will focus on how the phenomenon is studied, how it might happen, under what conditions it might happen, and how "market-like" systems can be designed to harness this ability and apply it to managerial problems.

Mark Taper Forum "Enigma Variations"

By Eric-Emmanuel Schmitt Directed by Daniel Roussel With Jamey Sheridan and Donald Sutherland American Premiere
April 24 - June 13, 1999

"What makes a mystery beautiful is not the truth it conceals, but the enigma it enshrines."

— From Enigma Variations

See www.taperahmanson.com/1998-99/index-taper.html for more information.

Ahmanson Theatre Cinderella Music by Prokofiev

Directed and Choreographed by Matthew Bourne
*April 2 - May 23, 1999
Previews begin March 28.*

Bourne totally retells the classic love story of Cinderella, set against the backdrop of the German bombing of London during World War II. As master storyteller, Bourne takes Prokofiev's 1945 score and recreates the endearing fantasy of a young girl, her evil stepmother and rival siblings, a guardian angel and the whirlwind romance of falling in love with a heroic Royal Air Force pilot. See www.taperahmanson.com/1998-99/index-ahmanson-now.html for more information.

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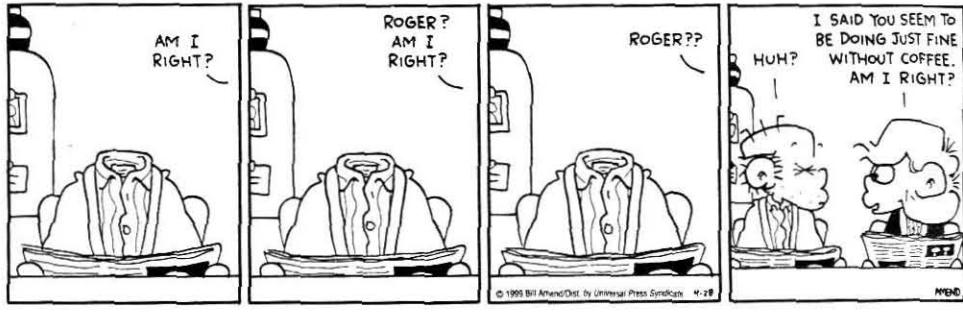
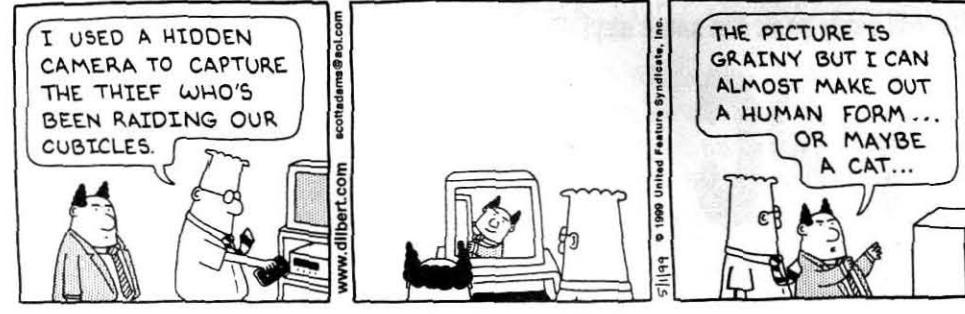
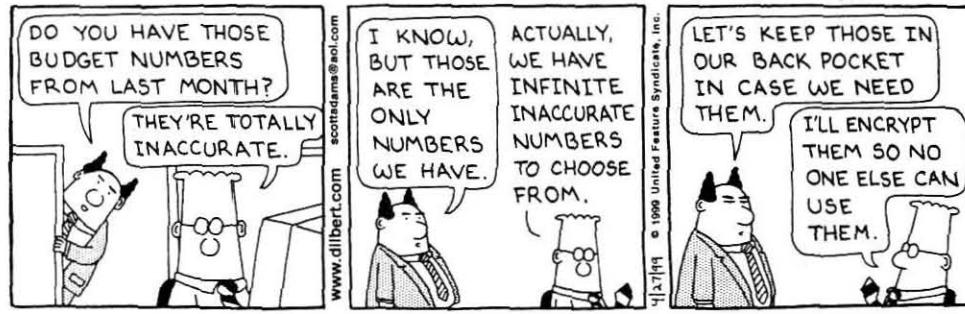
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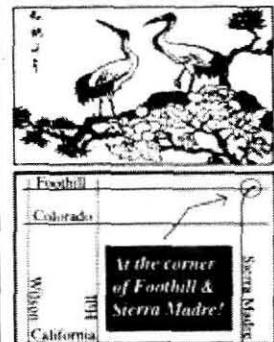
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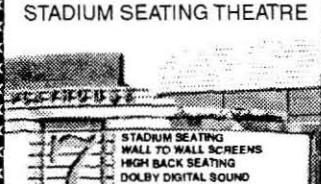
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Dean's Corner

Steel, Guns and Drugs

by Jean-Paul Revel

cause in their own milieu, they are looked up to. Was it different in Nazi Germany? Was it not a source of pride to be selected for the Waffen SS? Is it different with members of the Ku Klux Klan? Don't the members of a faith, any faith, feel superior to the non believers? It would seem so, since sharing beliefs is essential for salvation.

Most of us are joiners pretty much willy-nilly. No one can truly stand alone, there is always a differentiation between "us" and "them". Actually, each of us is part not of one but of many groups. Even if the place one holds in one group is unenviable, in another, one can be looked up to. Our behavior is controlled by what is acceptable to our confederates. Problems arise when one of the group's culture clashes with that of other entities around it. Last week end I watched "The Frenchmen's Creek" on Masterpiece Theater. Based on a novel by Daphne du Maurier, it illustrates the beginnings of the conflict in English society, between protestants and "papists". Here are these gentle, refined folk, with an affected be-

havior towards other members of their social group. In the name of their respectively Catholic and Protestant Kings (another two of the various groups to which they belong) they kill and are killed. Superficially, these murders seem politically driven, but politics are a veneer for lust and passion, partners which form another overlapping set of groups. So that's what genteel life was in 1680? I hope du Maurier was a terrible historian, but she probably had the human interactions correctly described.

Should we feel superior to these people living at the end of the 17th century, when at the end of the 20th we are just now watching the very same conflict sputtering out, or so one hopes, while elsewhere the Hutus are settling their score with the Tutsi, the Serbs attempt ethnic cleansing in Yugoslavia, we (NATO) are giving the Serbs the business and a few other similar bagatelles? In each case there are pairs of antagonists, each carrying a torch for their rights, their freedoms, their peace, their way and to hell with everyone else.

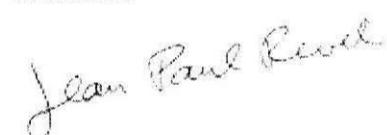
Belonging to a special group may enable particular behaviors but does not explain why the 2 ninjas in Littleton turned to kill-

ing. Here again is that troubling elephant problem, yes, Babar is back to haunt us. There are many speculations as to the root cause of events, although it is unlikely that there was a single thing which led to this catastrophe. In fact, most people are exposed to very similar environments without the dismal outcome. The majority of students go through school neither committing murder or being threatened in that way. Not that even a few such killings are not a few too many. But not everyone reacts in an antisocial way to the very TV programs which are blamed because they show murder and mayhem. Most kids here have watched the coyote and the road runner annihilate each other and then spring back alive for yet more unreal chases, demonstrating that there is no harm in acting out one's antagonisms. Kids are taught from a tender age, that if someone does something you don't like, then go after him and beat him up or send him over a cliff. At least that's what happens on that show with the wabbit, or is it the moose? But most kids don't seem to act that way later in life. And we have Agatha Christie, one of the best selling authors of our time. I have never heard anyone suggest that her books or the many other murder mysteries and terror stories have caused wars to erupt. Nor are guns the cause, even if they were one of the main tools. None of these things are the single cause, but each

may be one of the many that are likely to have contributed. Besides the factors that affect nearly everyone there must also be personal factors, such as feelings of worthlessness (as discussed above), and other factors too, wired or induced in the brains of the perpetrators (see "Why the young kill" in Newsweek, 5/3/1999).

It seems to me that one factor that has not really been discussed is a lack of respect for others, a selfishness allowing each of us to rationalize his actions, her superiority over the Yahoos. Even here, in this best of possible places, a community of highly selected people, there is much work to be done in fostering respect. One way to gain it is to act responsibly. With the freedom to act as adults comes responsibility. The driver of a car is responsible for what he gets his machine to do. Each of us is responsible for what they do and how they do it. Even the killers in Colorado knew that, or they would not have killed themselves to escape. Let us not evade the world even by slower means such as the bottle or pills. They will not, in the end, eliminate loneliness or fear of failing. Please come to talk instead.

A bientot,



Jean-Paul Revel

The Outside World

by Cheryl Forest

Littleton, Colorado

Tragedy struck this affluent suburb of Denver last Tuesday. Eric Harris and Dylan Klebold, seniors in Columbine High School and members of the "Trenchcoat Mafia," entered the school at approximately 11 AM and began shooting. After making their way to the library, they took their own lives. 13 students and a teacher were killed, and many others remain hospitalized. The two gunmen planted bombs as they went through the school; given the number of these traps, authorities now believe that the two had accomplices.

Kosovo, etc.

NATO has inflicted damage on all four major routes from the Serbian heartland to Kosovo, which has cut supplies to Yugoslav forces in half, according to a statement issued by the Pentagon on Thursday. One of Yugoslav President Slobodan Milosevic's Belgrade homes was

bombed during a NATO airstrike early Thursday morning; officials are defending this action as being a justified attack on a military facility and not an attempt to assassinate Milosevic and his family.

East Timor

Unfortunately, violence has become a mainstay of life here, as the July ballot deciding whether it should be an autonomous Indonesian province or an independent nation approaches. A day-old cease fire was in effect Thursday, but pro-Jakarta militias ignored it.

Sarajevo, Bosnia

International organizations overseeing Bosnia's peace process said on Thursday they were returning staff to Bosnia's Serb half after withdrawing many of them last month due to NATO's air campaign on Yugoslavia. Their gradual return to the Serb Republic reflected an easing of tension there after a series of attacks against for-

eigners in the first week following the March 24 start of the West's air strikes on Yugoslavia.

Iraq

U.S. warplanes launched a missile and laser-guided bombs at Iraqi radar and anti-aircraft sites in the northern "no-fly" zone Thursday, military officials said. The no-fly zones were set up in the aftermath of 1991's Persian Gulf War, and attacks on Iraqi air defense installations have been routine since then.

Dodger Stadium

In what was apparently the only good news this week, the Atlanta Braves won 2 of the 3 games that they played against the LA Dodgers. The Braves routed the Dodgers Monday 11 to 3, and then continued the trend Wednesday night with a final score of 11 to 4. Wednesday's game was tied until the 12th inning, when the Braves scored 7 runs. And no, this is not biased.



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SUMMER WORK-STUDY APPLICATIONS NOW AVAILABLE

Information and applications for 1999 Summer Work-Study are available in the Financial Aid Office. If you are interested in Summer Work-Study, please submit the required application as soon as possible, but no later than June 1, 1999. Your entire financial aid application must be complete by June 1 to be considered. If awarded, work-study financing will begin July 5, 1999.



Announcements

Do you suffer from depression, anxiety or other emotional problems not related to substance abuse? We may be for you. An **Emotional Health Anonymous Meeting is held each Thursday evening at St. Anthony's Catholic Church, 1901 S. San Gabriel Blvd., at 8:00 pm. (enter off of Marshall; the meeting room is directly behind the church.) For more information call 626-287-6260.

Go to www.JobMonkey.com for free information on many thousands of **summer work opportunities** around the world.

Information and applications for **1999 Summer Work-Study** are available in the Financial Aid Office. If you are interested in Summer Work-Study, please submit the required application as soon as possible, but no later than June 1, 1999. Your entire financial aid application must be complete by June 1 to be considered. If awarded, work-study funding will begin July 5, 1999.

There is a **Survivors of Incest Anonymous** (SIA) meeting at 10:30 am, Saturdays at Las Encinas Hospital (2900 E Del Mar Blvd.) in the Inservice Room. This is a meeting for survivors of sexual abuse. Remember: You are not alone.

The **Caltech Progressive Coalition** welcomes students, faculty, and staff across a broad ideological spectrum who are interested in working hard for peace, human rights, and economic justice. For instance, we are active participants in the nationwide campus movement against the sanctions and bombing war in Iraq. For more information, contact progress@ugcs.caltech.edu.

Catholic Big Brothers, Inc. needs YOU to lend a child a helping hand in a non-school-hours program where children ages 7 to 14 and **volunteer mentors** work together to improve reading, writing, and arithmetic skills. Sessions are located at the Northwest Pasadena Mentoring Center, Villa Parke Community Center, 363 East Villa Street. Catholic Big Brothers has been serving volunteers and children of all faiths since 1925. For more information call 800-463-4066.

The last date to request any change to your **1998-99 Financial Aid Award** is Friday, April 30, 1999. Requests for 1998-99 changes made after April 30 will not be considered. Please contact the Financial Aid Office at ext. 6280 if you have any questions.

Free anonymous HIV testing is available every Monday evening using Orasure oral testing at the AIDS Service Center, 1030 S Arroyo Parkway. Appointments by calling 888-448-9242 are preferred; walk-ins are welcome. Last appointment at 8:00 pm. For more information call Craig Petinak at 626-441-8495.

Events

**Rudolph Marcus, Nobel Laureate and Arthur Amos Noyes Professor of Chemistry, Harry Gray, Arnold O.

Mints

Beckman Professor of Chemistry, and Jacqueline Barton, Arthur and Mariam Hanisch Memorial Professor and Professor of Chemistry, will discuss "**The Chemistry of Life: Electron Flow in Biological Systems**" at the Chemistry **0.1 seminar** on Friday, May 7 at 4:00 pm in Baxter Lecture Hall. Abstracts for this and other Chem 0.1 seminars are available online at http://www.cco.caltech.edu/~koonin/CCE0_Iseminars.html.

This term's **SEDS lecture series will kick off at 7:30 pm on Monday, May 3 in room 202 Guggenheim with a talk entitled "**New Spacecraft Design Tools**" by Joel Sercel, visiting associate in mechanical engineering at Caltech, and a tour of his newly-refurbished lab. Refreshments will follow the talk and tour. The next scheduled lecture will be given by Kip Thorne on LIGO on Wednesday, May 12 in room 151 Sloan.

Come hear the Caltech Glee Clubs and Caltech Chamber Orchestra perform a program of spirituals and international music from six continents at 8:00 pm on Friday, May 14 or 3:30 pm on Sunday, May 16 in Dabney Lounge. Admission to this **Spring Concert is free. For more information call 1-888-2CALTECH or 626-395-4652.

Caltech Quiz Bowl will be hosting an **Intramural Quiz Bowl Tournament on Saturday, May 15. This event is open to the entire campus (undergrads, grads, faculty). There is no entry fee for this event. Contact Josh DenHartog (josh@cco.caltech.edu) for more information or to register a team.

The San Gabriel Valley Hospitality House has been invited to join the San Gabriel Valley chapter of Habitat for Humanity for the 2nd annual **5K Hike for Habitat. Join in for a 3-mile scenic walk and help two charities at once! Proceeds will support the efforts of The Hospitality House to provide accommodations for families facing medical crisis far from home and for Habitat for Humanity to eliminate substandard housing in the San Gabriel Valley. The walk will be held on Saturday, May 22 at Victory Park in Pasadena. Registration and warm-up are at 7:30 am followed by a short welcome at 8:15 am. The hike starts at 8:30 am. Prizes will be awarded for the most money raised and Habitat for Humanity T-shirts will be given to everyone who raises over \$25.00. Be a walker or cheer on from the sidelines. For details and a pledge form call 626-585-1588.

****Flutist Gregory Lawrence Jefferson** will give a **free concert** on Sunday, May 9, at 3:30 pm in Dabney Lounge. The program for the concert will include Debussy's La Plus Que Lente, Chopin's Minute Waltz, a number of pieces by Henry Mancini, and Kreisler's Tambourin Chinois, among others. Call 1-888-2CALTECH or 626-395-4652 for more information.

As part of the **James Michelin Seminar Series, David Galenson, Professor of Economics at the University of Chicago and a research associate of the National Bureau of Economic Research, will present a talk entitled: "**The Careers of Painters from Manet to Minimalism: A View from the Auction Market of Two Episodes in the Development of Modern Art**," on Thursday, May 13, 1999 at 7:30 pm in Beckman Institute Auditorium. Professor Galenson will present data drawn from art auctions held since 1970 to estimate the relationship between the price of a painting and the artist's age at the date of its execution. Admission is free. For

further information, call campus ext. 3610.

Come to Beckman Auditorium for **Bandorama at 8:00 pm on Saturday, May 15. This special concert will honor Caltech's band director, William Bing, who will celebrate his 25th year at Caltech on that evening. The Caltech Jazz and Concert Bands will perform a medley of Caltech songs and a Sousa march. Saxophonist Gary Foster will be the guest artist. Admission is free. For more information call 1-888-2CALTECH or 626-395-4652.

Buddy Hatton will narrate the **Armchair Adventures travel film "Bali" in Beckman Auditorium at 8:00 pm on Friday, May 14. Admission costs \$7.00-\$9.00. For more information call 1-888-2CALTECH or 626-395-4652.

The next **Seminar on Science, Ethics, and Policy will be given at 4:00 pm in Judy Library in Baxter Hall on Thursday, May 13 by Dr. Ian Hacking, Professor of Philosophy at the University of Toronto. The talk is entitled "Dreams in Place." Refreshments will follow the lecture.

Come watch grammy nominated Japanese Composer Isao Tomita honor the 1000 year anniversary of **The Tale of Genji, a sweeping story of romance and passion set in the Japanese Imperial Court, with a groundbreaking blend of live music and high definition video. The performance will feature a unique combination of an 88-piece orchestra, the traditional Japanese instruments of biwa, flute, shō and koto, along with a colossal video wall that dramatically presents a digital film created exclusively for The Tale of the Genji. The event will be held at 7:30 pm on Tuesday, May 11 in the Pasadena Civic Auditorium, 300 E. Green Street. Tickets may be purchased at the Pasadena Civic Box Office, 626-449-7360, or Ticketmaster at 213-480-3232.

A physics research conference on "The Aerodynamics of Insect Flight**" will be led by Michael Dickinson, associate professor in integrative biology at UC Berkeley, in room 201 E. Bridge at 4:00 pm on Thursday, May 6. Refreshments will be served in room 110 E. Bridge at 3:45 pm.

The drummers of **San Jose Taiko** will perform on Friday, May 7, at 8:00 pm in Beckman Auditorium. San Jose's contemporary music fuses the traditional rhythms and melodies of Japan with the beat of American jazz and the world music of Africa, Bali, Brazil, and Latin America. The company features both men and women drummers. Tickets are prices at \$29, \$25, and \$21; Caltech student price is \$5. Call 1-888-2CALTECH or campus extension 4652 for more information.

A **Vintage Denim Apparel Auction** will be held in the Pasadena Center Conference Building at 11:00 am on May 8. A preview will run from 9:00 till 11:00 am. The auction features a variety of high quality denim apparel, including vintage Levi's, Lees, Wranglers western pants, name brand work

gear, jeans, jackets, and related items. The event costs \$10 including a catalogue. For more information call 208-237-2002 or 626-793-2122 or email flying@nicoh.com or visit www.flying2.com.

Douglas Rees, professor of chemistry at Caltech and full investigator with the Howard Hughes Medical Institute, and Stephen Mayo, associate professor of biology and assistant investigator with the Howard Hughes Medical Institute will discuss "**The Chemistry of Life: Protein Machines**" at the Chemistry **0.1 seminar** on Friday, April 30 at 4:00 pm in Baxter Lecture Hall. Abstracts for this and other Chem 0.1 seminars are available online at http://www.cco.caltech.edu/~koonin/CCE0_Iseminars.html.

A theory seminar on "**Neutrino Masses and Oscillations**" will be held in room 119 Kerckhoff at 2:00 pm on Friday, April 30. Petr Vogel, senior research associate and lecturer in physics at Caltech, will speak. Refreshments will be served.

Come watch "**The Life and Times of Albert Einstein**," a glimpse into the life of Albert Einstein as seen through the eyes of his secretary/watchdog, Ellen, on Sundays at 7:00 pm in the Fremont Centre Theater, 1000 Fremont Avenue. Tickets are \$15, or \$10 with student ID. For more information call 888-441-5979 or 626-441-5977.

Have **Christmas in April!** Come help repair houses for federal work study money (\$12/hr) on Saturday, April 24 and Saturday, May 1 from 8:00 am till 4:30 pm. Dress comfortably in "work" attire. Breakfast, lunch, beverages, and transportation will be provided. You'll get a free T-shirt! If you're interested contact Athena Castro at the Caltech Y, castro@cco.caltech.edu or x6163.

The **Distinguished Speaker Series of Southern California** presents **Margaret Thatcher** in the Pasadena Civic Auditorium, 300 East Green Street, at 8:00 pm on May 3. In this rare public appearance, she will share her ideas and interpretations of world politics today and the challenges facing us in the 21st century. Tickets may be purchased at the Pasadena Civic Box Office (626-449-7360) or Ticketmaster (213-480-3232). For subscription information call 800-508-9301 or www.speakersla.com.

The **Capitol Steps** will perform on Friday and Saturday, April 30 and May 1, at 8:00 pm in Caltech's Beckman Auditorium. The Capitol Steps are a group of current and former Congressional staffers who first began performing their musical satire as entertainment for a Capitol Hill office party. Tickets to this performance are priced at \$32, \$28, and \$24; youths 12 and under receive \$4 off. Student and senior rush tickets will go on sale for \$10 beginning one-half hour before the performance (subject to availability). Tickets can be purchased at the Caltech Ticket Office, 332 S. Michigan Avenue, or through Ticketmaster (213-480-3232). For details call 1-888-2CALTECH.

Students and faculty are invited to submit proposals to the **National College Inventors and Innovators Alliance (NCIAA) by May 15 to fund student projects and faculty courses and programs that enable students to pursue the steps leading to commercialization of their innovations. Two types of NCIAA grants are offered: Advanced E-Team Grants of up to \$20,000 to student innovators, and Course and Program Development Grants of up to \$50,000. E-team grants may be used for summer stipends, equipment, prototyping and supplies, business planning and the like. For more information and application forms visit <http://hampshire.edu/ncia> or call 413-559-5318.

The **Ebell of Los Angeles Scholarship Committee** offers scholarship awards of \$2,000 to undergraduates attending Los Angeles County institutions. Scholarships are awarded for 3 years or when the student graduates, whichever comes first. Applicants must be a U.S. Citizen, be a Sophomore or above, have a 3.25 or higher GPA, carry a minimum of 36 units per term, live and attend a school in L.A. County, and be a registered voter in L.A. County. To apply, applicants must submit an application form, a personal statement and a Parent Financial Statement. Applications are available in the Financial Aid Office. Entries must be submitted by April 30, 1999.

The **John Gyles Education Fund** is offering scholarship awards up to \$3,000 for the 1999-2000 academic year. Applicants must be Canadian or U.S. Citizens, have a 2.7 or higher GPA, and demonstrate financial need. Criteria other than strictly academic ability and financial need are considered in the selection process. To obtain an application, send a self-addressed, stamped envelope to: The John Gyles Education Fund, Attention: The Secretary, P.O. Box 4808, 712 Riverside Drive, Fredericton, New Brunswick, Canada E3B 5G4. Filing dates for mailing documents in 1999 are April 1, June 1, and November 15.

For information on the listed fellowships, assistance with essays, for clarification of questions, contact: FAR - The Fellowships Advising and Resources Office. To make an appointment, call x2150. For more information, please email lauran_stoller@starbase1.caltech.edu.

UFA - The Undergraduate Financial Aid Office. For information, call x6280, or stop by 515 S. Wilson for an appointment.

To submit an event for the Mints, contact mints@tech.caltech.edu or Mail Code 040-058 by noon on the Monday prior to its inclusion. Submissions must be brief and concise. Please do not send Mints in difficult formats like Binhex or Word document. ASCII and rtf are best. The editors reserve the right to edit and abridge all material. Solicitations will be referred to the business manager.

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