

Welcome  
Home,  
Frosh!

# The California Tech

See the  
Survival  
Guide  
Inside

Volume XCVI, Number 1

Pasadena, California

Friday, September 23, 1994

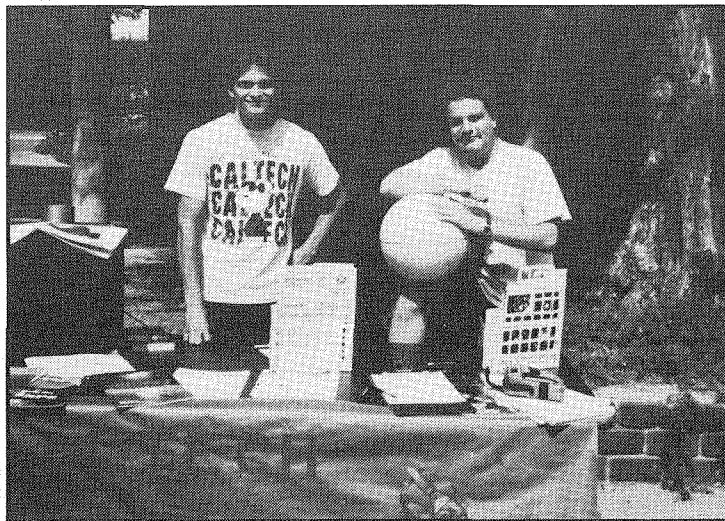
## Annual Club and Resource Fair Takes Tech by Storm

by Steven Van Hooser

As arriving students breathed new life into Caltech Tuesday, campus organizations took advantage of the new crop during the annual Club/Resource Fair on the Olive Walk.

A major function of the fair is to introduce clubs to new students. Freshman Christina Molodowitch said "I got lots of fliers in the mail, but there are twice as many clubs here as fliers," while her classmate, Michelle Miller, was "impressed by the diversity of clubs and activities at Caltech." Some new organizations, such as the Electric Auto Association, introduced themselves to Tech at the gathering.

The fair also gives additional information about clubs of which students may have already known. Freshman Maria Huang knew the Caltech Y provided for the entertainment needs of Caltech students, but "through the introduction of the representatives, I learned that the Y offers opportunities to work for the community and the school through programs such as tutoring and lead-



PHOTOS BY STEVEN VAN HOOSER

The Caltech Space Society was just one of many participants in the Club and Resource Fair on Tuesday.

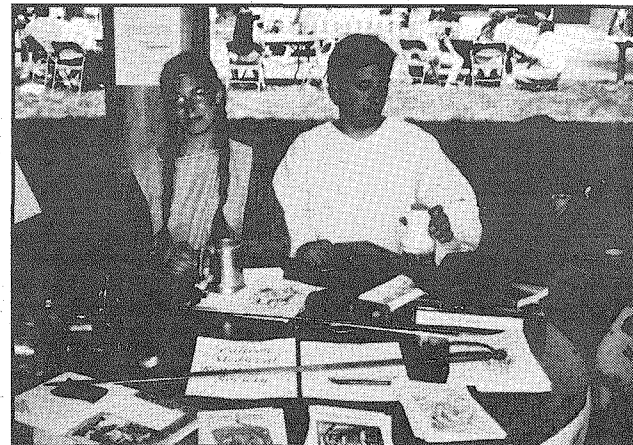
ership training."

Some students appreciate the personal touch of meeting club organizers. Daniel Chang, president of Caltech Christian Fellowship, stated that "the Club Fair lets you meet people in person instead of just seeing a name and a picture."

In addition to helping students find clubs, the fair also helps clubs find students. Humbert Suarez of

the Surfing and Wind Surfing Club said "the Club Fair is very good for the Wind Surfing Club. We get a lot of new people interested from the fair." Many groups collect students' email addresses to forward additional information regarding meetings and activities.

For some Caltech/JPL community clubs, such as the Caltech Flying Team, the fair provides one of few



The Caltech Medieval Renaissance Society joined in, displaying some items from the era.

forums to attract students. Garret Reisman of the Flying Team stated "We've had a declining representation of Caltech students in our organization, and this Club Fair is the primary means by which we want to change that."

Many clubs lured prospective members with ornate displays, interesting information, and free food. Especially impressive was the Caltech Medieval Renaissance Society, which boasted three swords, a dagger, armor fragments, a wineskin, and recipes from the Middle Ages. The Students for the Exploration and Development of Space (SEDS) set up an 8-inch telescope to look at the sun, and the Caltech Space Society strutted a lunar globe and video; by coinci-

dence, the space shuttle *Discovery* added two sonic booms to their exhibits. The *little t* dispensed a little tea, while the Society of Women Engineers provided interested Techers with punch, cheese, and crackers. Also stationed at recruiting tables were various religious and ethnic fellowship groups, orchestra and glee clubs, and at least five martial arts associations.

The day proved very beneficial for the organizations, with many clubs obtaining more than one page of interested students. As these young Techers participate in their clubs, new and exciting avenues and activities will be explored and created, defining the future of the social experience at Caltech.

## Another Election for the Spot of ASCIT President

by David R. Derkits, ASCIT Secretary

Michael Benedetti, who was elected President near the end of third term, has decided not to return to Caltech and has resigned his office. A special election for his successor will be held on Monday 10 October. Nominations for the office of ASCIT President will open on Wednesday 28 September 1994 and close the following Tuesday, 4 October, at

PLEASE SEE ELECTION, PAGE 4

## Caltech Appoints New Director of Admissions

from Caltech Public Relations

Charlene Conrad Liebau has been appointed the new director of admissions. Liebau succeeds Carole Snow, who served as director for three years.

Liebau comes to the Institute from Occidental College, where she has been the dean of admissions since 1985. She has also held the positions of associate director (1982-85) and assistant director (1979-82) of admission for the college. During Liebau's tenure as dean, applications increased by 78 percent, and she implemented an alumni admission program. Liebau also served on the search committees for the college's president and vice president and chaired the faculty/administrative committee on student retention. Prior to Occidental, she

was the assistant dean of women at San Jose State University.

"Caltech looks forward to having Charlene lead us in the recruitment of diverse and quality students," commented Dr. Sharyn Slavin, assistant vice president for student affairs. "She brings a depth of experience with her that will give great leadership to the Institute. I look forward to working with her."

A local resident for many years, Liebau has been very active in volunteer work, including holding the office of president of the board of trustees for the Polytechnic School in Pasadena, and working as a member of the board of trustees of the Brentwood School (an independent, coeducational, preparatory day school). She

has also served as vice president of the Pasadena Symphony Association, as a member on the Panel Review for Discretionary Grants for the U.S. Department of Health and Human Services, and as president of the Junior League of Pasadena.

"I am excited by this opportunity to work with Caltech and its commitment to excellence in research and scholarship, by recruiting students who are interested in the world around them and who are eager to challenge themselves," said Liebau.

Liebau received a B.A., with honors, from the University of California, Berkeley, and an M.A. from the School of Education at Stanford University. She lives in San Marino with her husband, Jack.

## Results of Last Year's Proposed Bylaws Amendments

by David R. Derkits, ASCIT Secretary

In the election of 3 June 1994, seven proposed amendments to the ASCIT Bylaws were considered by the undergraduate student body. A two-thirds yes (approval) vote was required to pass each amendment.

The first amendment, to increase the annual Big T assessment from \$30 to \$36 per yearbook, passed with considerable support (86% of voters approved). This change was fully implemented over the summer and will affect the '94-'95 and future yearbooks.

Amendment Two, which passed with 84%, altered when the Tech Editors take office, to the beginning of third term rather than in the middle of second term, when the other ASCIT officers are installed. In addition, the election for Tech Editors will now be held with the second round of elections, instead of grouping the

office in the first round (with the elections for President and Vice President / BOC Chairman).

Amendment Three, which failed with 59% approval, proposed to establish a time limit within which petitions proposing amendments must have been signed (15 days) before being presented to the Board of Directors for official action. It also would have lengthened the deadline for holding the election from 15 days to 21 days after the official action of the Board.

The fourth amendment failed with 58% approval. This amendment proposed patches to the fiscal articles, including the removal of language requiring the Board to revise the dues annually to compensate for inflation. Much of the "fine print"   
 PLEASE SEE BYLAWS, PAGE 4

## Pauling Passes During Summer

from Caltech Public Relations

Linus Pauling, the only winner of two unshared Nobel Prizes, a visionary scientist and leader for peace, died Friday, August 19, in Big Sur, California. He was 93.

Born in Portland, Oregon, on February 28, 1901, Pauling received his BS in chemical engineering from the Oregon Agricultural College (now Oregon State University) in 1922, the same year he came to Caltech as a graduate student. He

PLEASE SEE PAULING, PAGE 5

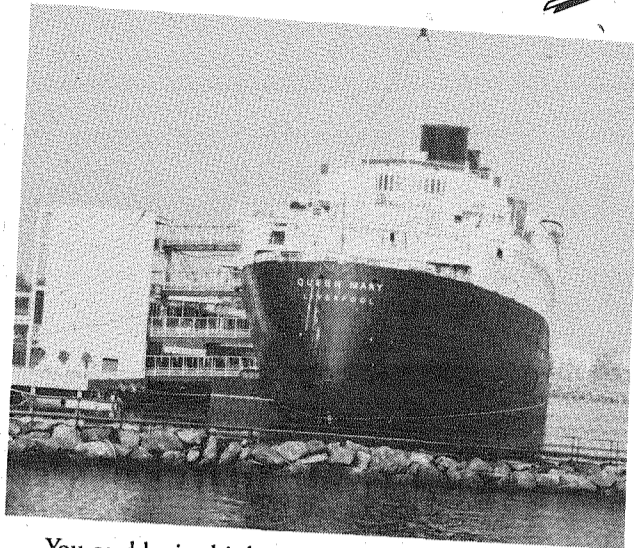
# FROSH CAM



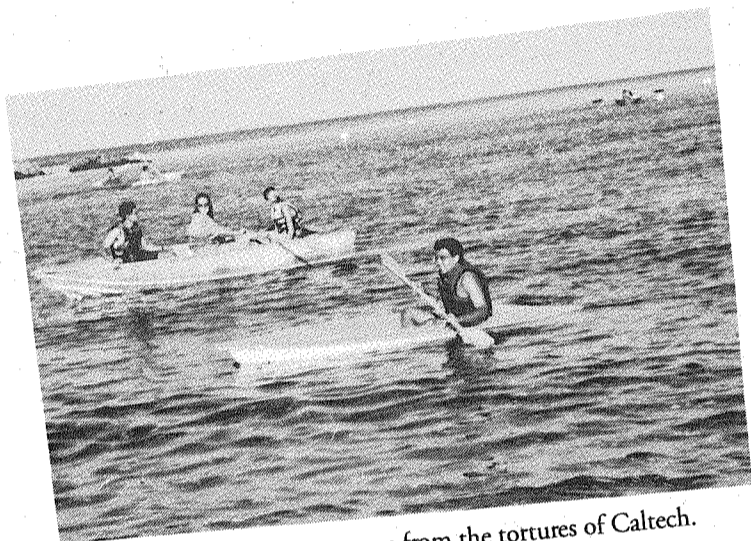
Just say ROD!



Bunches of camera-shy frosh.



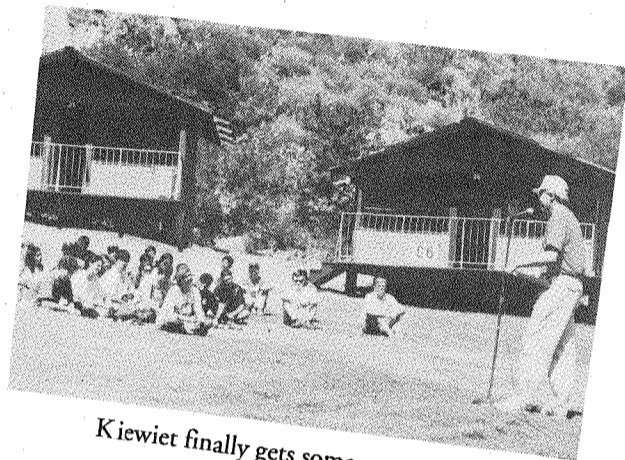
You could win this boat if you write for The Tech.



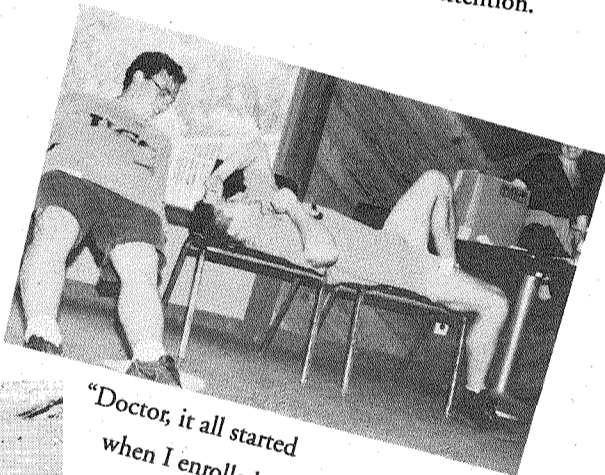
Already trying to escape from the tortures of Caltech.



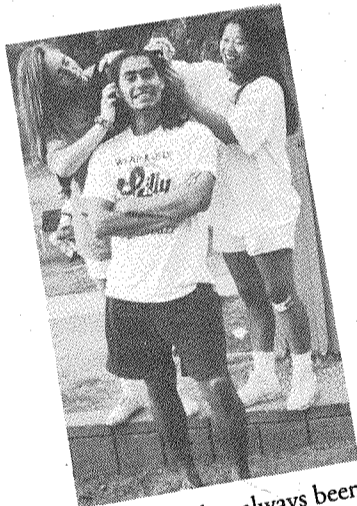
Practicing for ME 72.



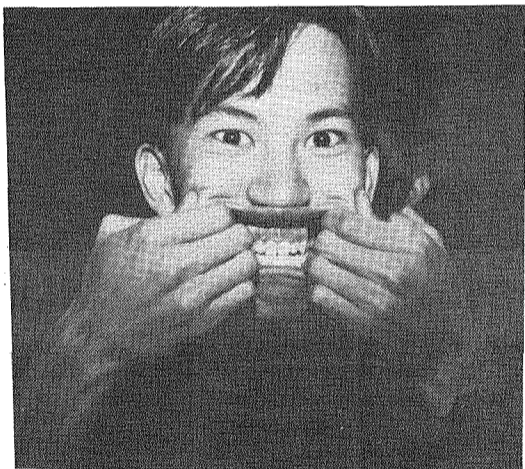
Kiewiet finally gets some attention.



"Doctor, it all started when I enrolled at Caltech."



Hairstyling has always been a key to success at Caltech.



No caption necessary.



Introduction to grunge.

## THE WATSON FELLOWSHIPS

### REMINDER TO INTERESTED SENIORS

A one- to three-page project proposal draft for the Watson Fellowships is due in the Dean of Students office, 102 Parsons-Gates, on **Monday, October 10, 1994.**

Keep in mind that successful proposals generally have a single topic of study or investigation that reflects a student's long-standing interest in that area.

The Watson Foundation provides fellowships of \$15,000 for a year of independent study and travel after graduation. They are designed to encourage an informal break in the normal sequence of undergraduate-postgraduate education and are a marvelous opportunity to travel outside of North America. Caltech nominates two seniors each year for this fellowship.

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## The California Tech

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# Men's Cross Country Rebuilds Quickly

■ by Tom Dmukauskas

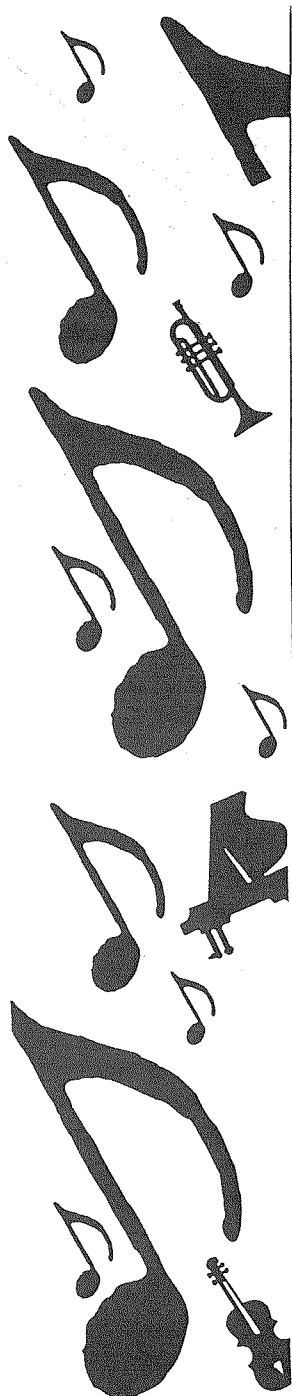
It appeared that 1994 would be a bleak year for the Caltech men's cross country team. After all, the previous year's #1 man and nationals qualifier, Andy Zug, and #3 man Ned Bowden had been lost to graduation. So, when pre-season practice started on September 6th, there was not a terribly large degree of optimism for moving up in the conference standings.

This attitude changed quickly after seeing the results of the Whittier Invitational on the 10th. There was a new kid in town to take up where Zug had left off. His name is Dan "Gimpboy" Kleiman, and though Coach Jim "Safety is not a Concern" O'Brien had been hyping him up during the entire summer, only his race that day was able to prove that he could live up to it. In a field of 183 athletes, Kleiman emerged in 15th, amid a sea of the black and orange worn by NAIA powerhouse Azusa Pacific. If you look at only the SCIAC schools (all but Oxy were there), Kleiman's time of 19:50 over the 6k course was only bettered by Matt Newman and Walter Voegli of Claremont-Mudd-Scripps. There still remained considerable work to be done, as the rest of the top five were spread from 103rd to 139th giving the Beavers a team score of 504 points which yielded 15th place out of the 21 complete teams entered. This was good enough to defeat Whittier (513

points) and Cal-Lutheran (incomplete team) from the SCIAC but left them short of LaVerne (453 points).

September 12th marked the beginning of 2-a-day workouts and brought with it some more talented frosh. At the Westmont Invitational on the 17th, 3 of the top 7 for Tech were frosh. Kleiman (6th place) led the men once again though he and the rest of the lead pack temporarily departed from the course allowing Kevin Sturm of Westmont to stride to victory in 21:21 for the ~4 miles. Senior Schuyler Cullen shed seconds from his race time almost as quickly as he's been shedding pounds allowing him to snatch 16th place out of the 56 competitors. Freshmen Mike Davies and Brad Nakatani slipped in to the #3 and #4 position for Tech in 25th and 29th places respectively. Ron "Gumby" Stieger rounded out the top five in 24 minutes flat for 30th place. Once again, the Beavers triumphed over the Poets of Whittier by 28 points. However, for the second straight week, Caltech was edged out by The Master's College, prompting Francisco "The Schmuck" Gutierrez to vow never to get beaten again by a runner from a religious school. Cisco will get a chance to exact his revenge this Saturday at the Caltech Invitational at Lower Arroyo Park.

Only 247 shopping days until K.E.L.R.O.E!!!



Caltech

## Jazz Bands Concert Band Chamber Music

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Sunday, Sept. 25 12-4 PM  
Monday, Sept. 26 4-6 PM  
and 8-10 PM

in room 12,  
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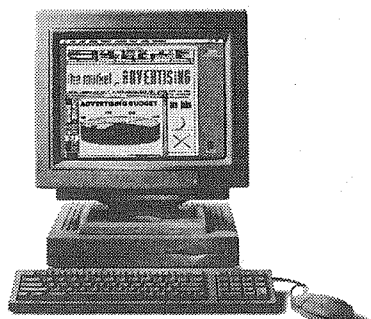
There is a sign-up sheet  
on the door of room 12.

All are welcome, regardless  
of previous experience.

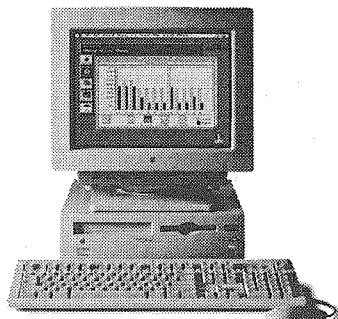
Questions?  
Call Bill or Delores Bing at  
(213) 684-8964 or x6198.



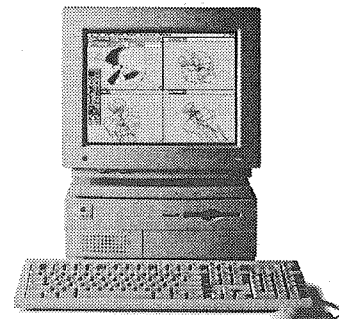
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## ELECTION

FROM PAGE 1

5:00 PM. If you are interested in seeking this office, please print your name on the nominations sheet posted on the east side of Winnett (to the right of the ATM) and follow the directions. It is strongly recommended that every nominee submit a campaign statement to the Tech; the submission deadline is 5:00 PM on Wednesday 5 October. Questions regarding the special election should be directed to Cedric Hobbs, ASCIT Election Chairman, at [cedricit@ugcs](mailto:cedricit@ugcs).

## BYLAWS

FROM PAGE 1

in the Bylaws about the budgeting process would also have been removed by this measure.

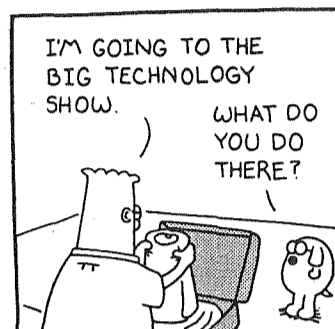
Amendment Five, passed with 68%, made distinctions in the Bylaws between the general officers of the corporation and other elected officers (who take office at different times). This amendment also removed archaic language which required the old Treasurer to remain an officer until the end of his fiscal year.

The sixth amendment passed with 67% approval. Big T and little t editors and business managers who graduate at the end of the academic year may now remain in office over the summer (to conclude their duties) without having to petition the Executive Committee for permission to continue.

The final amendment, which passed with 73% approval, clarified the wording and procedures for initiative and referendum.

All changes made by the above amendments are reflected in the current version of the Bylaws, which can be found in the Documents section of the 1994-95 little t or under <http://www.cco.caltech.edu/~ascit/> on the World Wide Web. As usual, questions or comments regarding the Bylaws or other official documents should be directed to David R. Derkits, ASCIT Secretary (x1402, [dderkits@cco](mailto:dderkits@cco)).

## DILBERT ®



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## Salomon Brothers

### Quantitative Research Analyst

Salomon Brothers is an international investment banking firm that makes markets in securities and provides a broad range of underwriting, financial advisory and research services to governments, corporations, and institutional investors.

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**The Quantitative Research Department will be interviewing  
on Campus November 14, 1994**

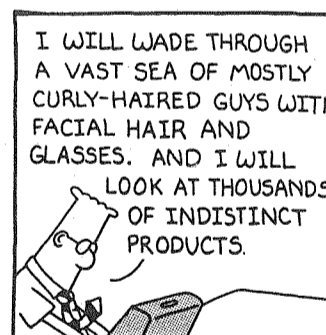
Resumes should be submitted to:

Joan Dolph  
Salomon Brothers  
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Seven World Trade Center, 37th Floor  
New York, NY 10048  
Fax # (212) 783-4615/4616

Please send submissions for letters to the editor to The California Tech, Caltech 40-58, Pasadena, CA 91125, or by e-mail to [editors@tech.caltech.edu](mailto:editors@tech.caltech.edu). Deadline for submissions is Monday at 5pm on the week of publication.

The editors reserve the right to edit or refuse to print any letter for any reason. Anonymous letters will not be printed.

by



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## PAULING

FROM PAGE 1

earned his PhD in chemistry in 1925 and joined the Caltech faculty. As professor of chemistry (from 1931) he served as chair of the Division of Chemistry and Chemical Engineering for 22 years — from 1936 to 1958 — as well as director of the Gates and Crellin Laboratories of Chemistry. He left Caltech in 1964 and went on to positions at the Center for the Study of Democratic Institutions in Santa Barbara, at UC San Diego, and at Stanford. He was named Caltech professor emeritus in 1971, and in 1973 established the Linus Pauling Institute of Science and Medicine in Palo Alto.

Pauling won his first Nobel Prize in 1954 in chemistry for his research on the nature of the chemical bond that holds atoms together into molecules, and its use in understanding the structure of such complex substances as proteins and antibodies. In October 1962 he was awarded the

Nobel Peace Prize for his efforts to stop the nuclear arms race. Pauling won numerous other awards including the Presidential Medal for Merit in 1948 and honorary doctorates from some 45 universities.

During a career that spanned more than six decades, he published over 650 scientific papers, about 200 articles on social and political questions, especially about peace, and many books, including *The Structure of Line Spectra* (with Samuel Goudsmit); *Introduction to Quantum Mechanics* (with E. Bright Wilson, Jr.) and *The Nature of the Chemical Bond* (one of the most cited scientific books of the twentieth century).

Pauling was married to Ava Helen Miller in 1923, who passed away in 1981. He is survived by his children, Linus Pauling, Jr., Peter J. Pauling, Linda Pauling Kamb, and Crellin Pauling. He is also survived by 15 grandchildren and 19 great-grandchildren, and his sister Pauline Emmett.



FNU PHOTO

Linus Pauling left several signs of his presence on the Caltech campus, including a statue near Gates and a plaque in the Chem 1 lecture hall.

## Women's Glee Club

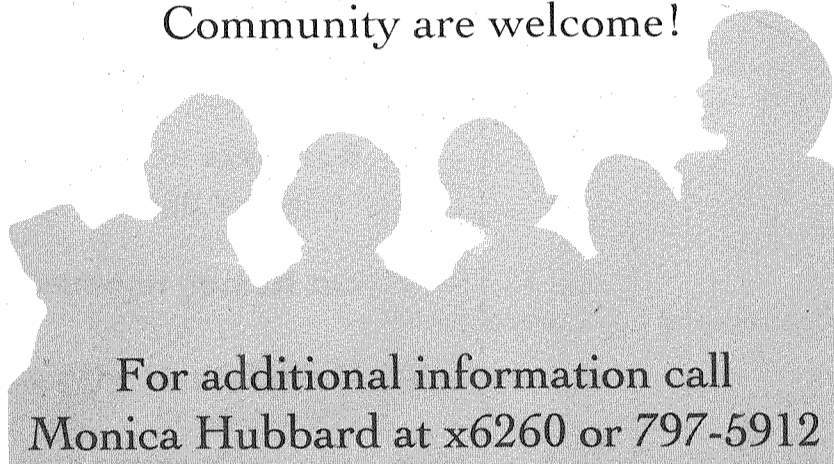
### Sign-ups

Sunday, September 25, 1:00 - 4:00 p.m.

Monday, September 26, 2:00 - 5:00 p.m.

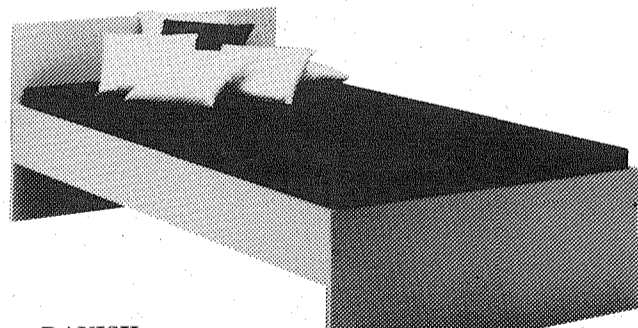
Student Activities Center, Room 1

All members of the Caltech/JPL  
Community are welcome!



For additional information call  
Monica Hubbard at x6260 or 797-5912

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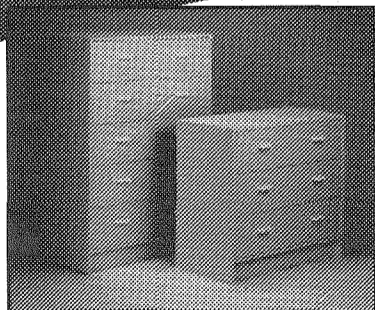


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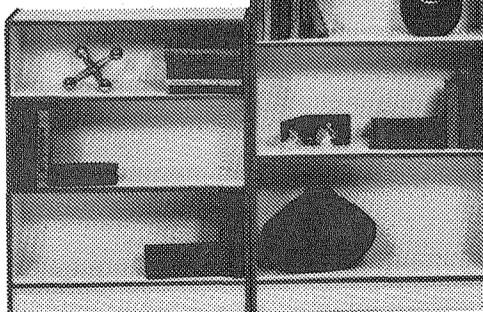
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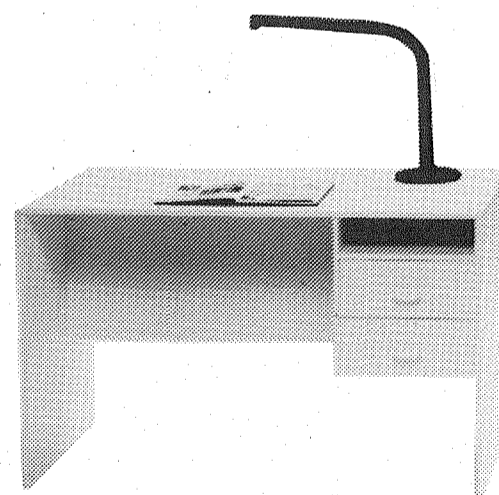
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# Caltech drops in national rankings

■ by Kenneth Lee

Caltech dropped from fifth to seventh place in America's Best Colleges, the publication of U.S. News & World Report released earlier this week that is considered to be academia's most influential ranking of colleges. Max Benavidez, vice-president for institute relations, said that this drop is not necessarily cause for concern because the most significant reason for this drop was a change in the ranking methodology, not a drop in the quality of education.

According to Benavidez, "This year, emphasis was reduced for financial aid resources and spending per student while more emphasis was placed on graduation rate." The change negatively affected Caltech two-fold because Caltech leads other universities in spending per student by about \$10,000, but has a relatively low graduation rate.

U.S. News & World Report states that these changes were implemented this year out of practicality because the public now places more emphasis on graduation rate and less on financial resources. Benavidez even joked that the changes were made so that there would be a little ranking-shuffling of the top schools because "nobody would buy the College Guide if the rankings were the same every year."

Although these rankings play some role in students' selection of colleges and universities, Benavidez

maintains that students who want a first rate science education are still going to come to Caltech: "All of the top universities acknowledge that there will always be reshuffling. What matters though is that Caltech is consistently ranked at the top." This drop does not necessarily signify a downward trend in education at Caltech or an upward trend in education at other universities. Caltech students should not be concerned that the quality of their education is diminishing in comparison to other universities.

There was also a slight drop in the sub-categories of academic reputation and alumni satisfaction, and Prof. Aschbacher offered an explanation to concerned students. However, in order to follow this explanation, the ranking methodology as detailed by U.S. News & World Report must be examined:

"To arrive at rankings, U.S. News did a reputational survey of [college presidents, deans and admissions directors] at some 1,400 accredited four-year colleges and universities... asking them to place each school into one of four quartiles based on its reputation. Each time a school was placed in the top quartile, it received four points; in the second quartile, three points [and so on]. The points for each school were totaled and divided by the number of

PLEASE SEE RANKINGS, PAGE 11



## 1994-95 Season

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Dr. Donald Caldwell, Conductor

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Sunday 9/25 2-5 SAC 3

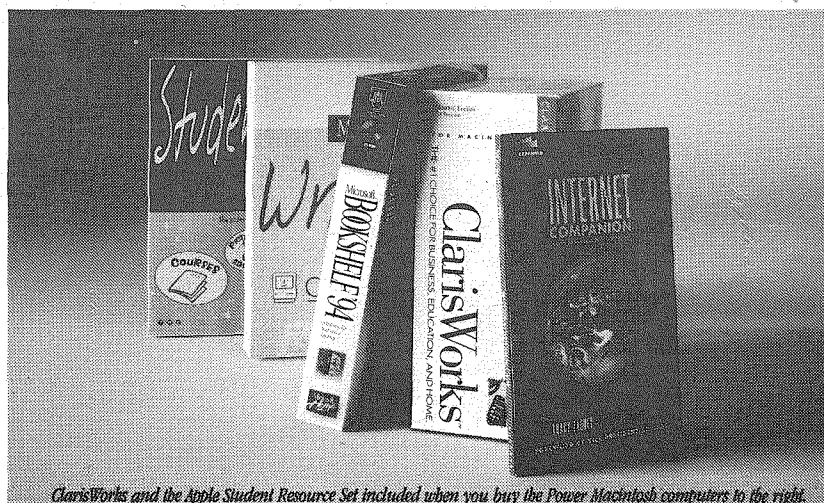
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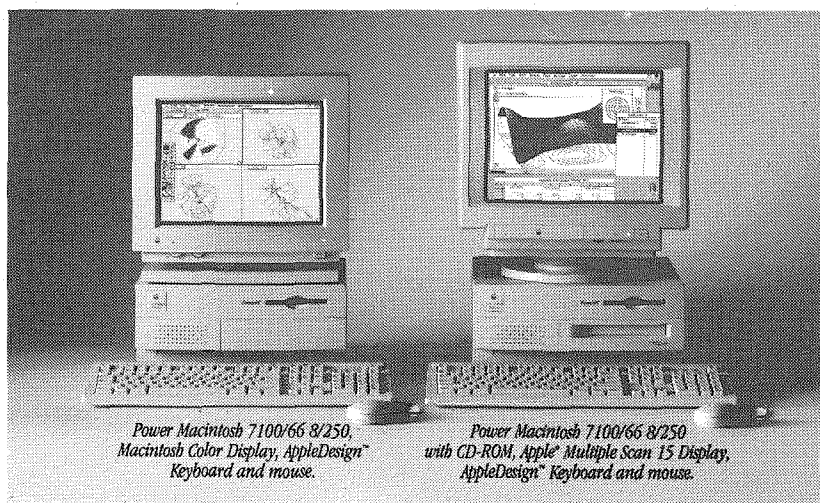
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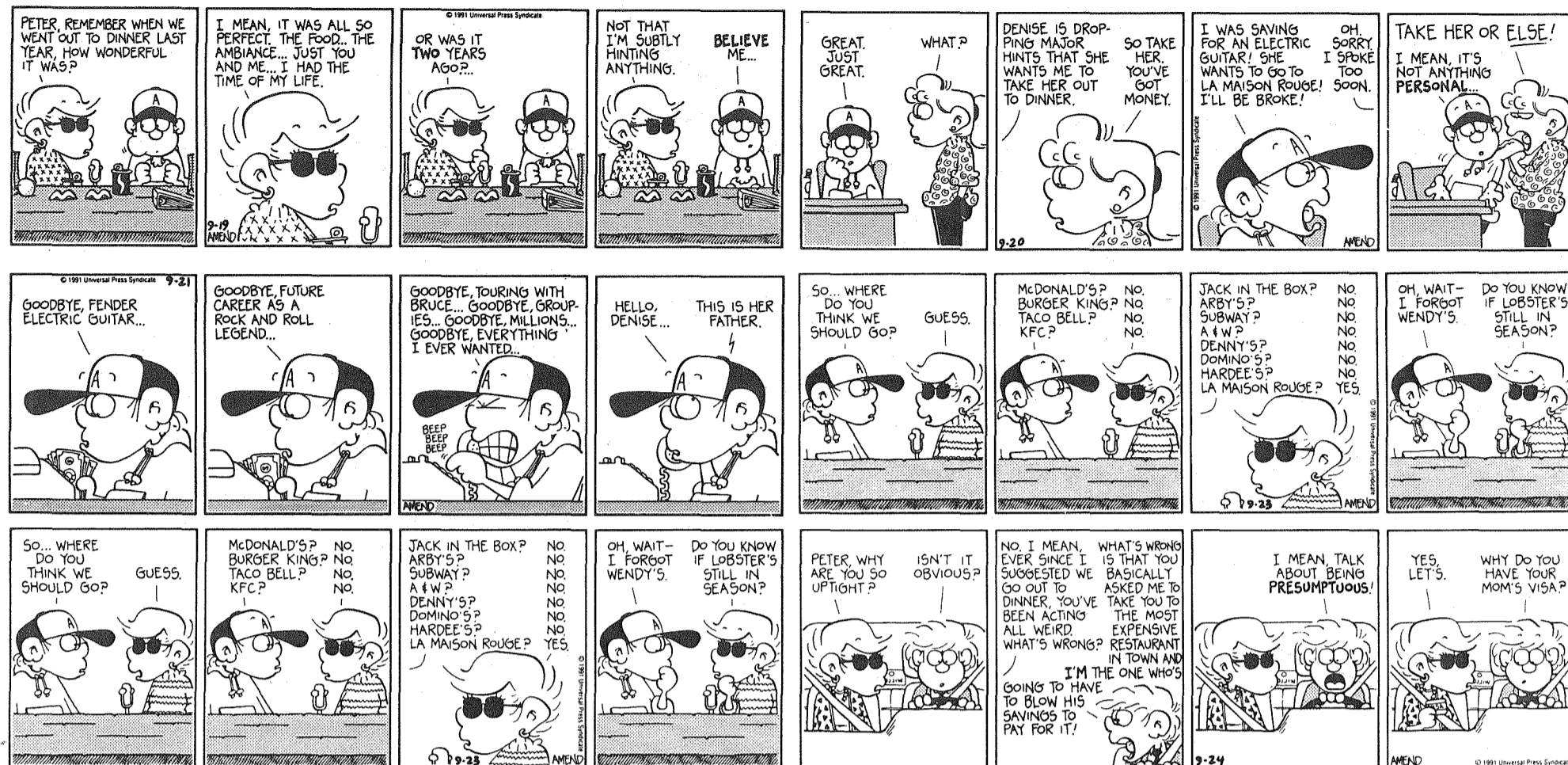
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by Bill Amend



# Scott Adams



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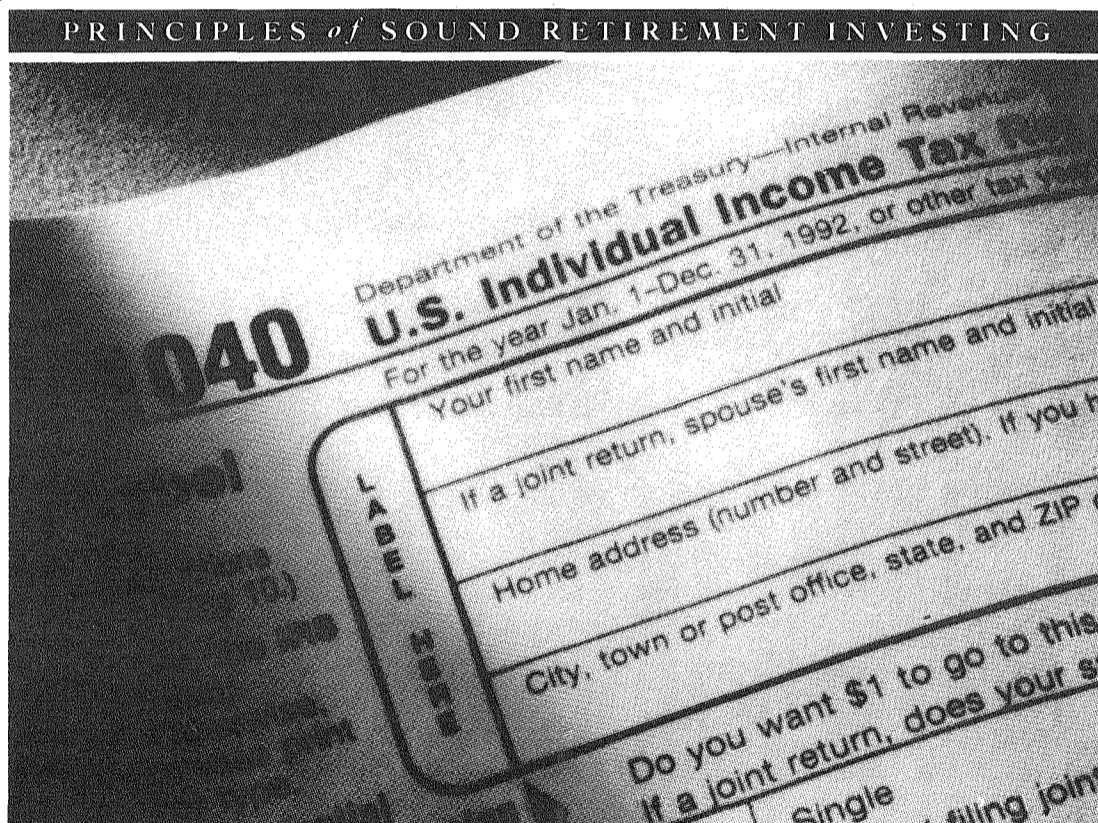
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## ADAM VILLANI: MEDIA GUY

### Start Watching Better Movies

There are a lot of Philistines out there who won't watch a movie if it hasn't had a \$40 million marketing campaign behind it courtesy of the Hollywood hype machine. Now, there's nothing wrong with advertising *per se*, but its evil is that movies like *The Flintstones* or *The Lion King* count their box office figures in the hundreds of millions of dollars while fine motion pictures like *Spanking the Monkey* are lucky to clear one million.

The proletariat's defense is always the same, "We go to the movies to be entertained," which is a perfectly valid excuse for watching mindless entertainment. Somehow, though, the idea got spread that the big studios are the only ones capable of making a fun, enjoyable movie. So the spotlight for today is on two great independent films I implore you to

see that stimulate your brain as well as making you laugh. You'd have to be thick as a rock to call these two boring.

### *The Adventures of Priscilla, Queen of the Desert*

Considering that I've never really found drag queens or disco to be my cup of tea, it's a testament to the power of cinema that I found watching *Priscilla* to be a great way to spend two hours. This Australian road movie follows a transsexual (Terence Stamp) and two drag queens (Hugo Weaving and Guy Pearce) as they travel across the desert from Sydney to Alice Springs for a performance at a resort hotel. The mood of the film deftly flows from lighthearted to introspective and deadly serious, but never gets bogged down and is full of surprises. A lot of people are talking about an Oscar nomination for

Stamp (*Billy Budd*, *Superman II*), and I wouldn't be surprised or disappointed if it also got nods for the screenplay and costume design as well. The only real negative point in this otherwise great movie is that the screenwriters thought it would be funny if a feisty Asian mail-order bride spoke in hideous stereotypical broken English. The character (an energetic performance by Julia Cortez) is a laugh riot, but the dialogue made me cringe. I highly recommend this movie, playing locally at the Rialto in South Pasadena.

### *Eat Drink Man Woman*

This new film from Taiwanese director Ang Lee (*The Wedding Banquet*) has become America's most widely distributed film in Mandarin ever, and it's easy to see why. This is a sumptuous comedy-drama about a great chef (Sihung Lung) in Taipei who's losing his taste buds and struggling along with his three daughters in romance and life. His youngest, Yu-Wen Wang, is a student working at a Wendy's fast food joint who falling in love with her best friend's boyfriend. Chien-Lien Wu plays his second daughter, a yuppie airline executive who could have followed in her father's

footsteps as a chef. Perhaps the best performance of the film, and my choice as Best Supporting Actress for this year so far, is Kuei-Mei Yang as his eldest daughter Jen. Jen is a schoolteacher who hasn't gotten over being jilted by a lover in college ten years before. When she discovers who's been sending her love letters, Jen wonderfully transforms her anger and desperation into a positive, assertive force.

The most captivating thing about this movie are the mouth-watering scenes of food preparation. Lee utilizes his camera (and sound recordist) to incredible effect, which I'm sure is probably doubling business at nearby Chinese restaurants! The food in this movie is more than a backdrop; it anchors the film in a unifying theme of universal human desires. *Eat Drink Man Woman* is an incredibly well-crafted, crowd-pleasing, superlative work of art. I give it my highest recommendation. Playing locally at Laemmle's Esquire on East Colorado.

### Two Cool Shows on the Radio

If you're sick of the same old crap on the radio, try out "Metropolis" on KCRW 89.9 FM, every weeknight from 8 to 10 pm, or "Imaginary Landscape" on KPFA 90.7 FM, Tuesday nights for two hours starting around 9:30. Metropolis plays ambient techno, acid jazz, and all sorts of cool atmospheric. The DJ's voice is so low it's almost frightening. Imaginary Landscape basically specializes in weird music. I've heard

a tape composition based on "Also Sprach Zarathustra," something involving a lot of babbling in Dutch, and a song called "I Want a Bald Boyfriend." It's never the same thing twice, and in contrast to Metropolis, the DJ has a whiny, nerdy voice.

### *Princess Caraboo*

This is a charming little fairy-tale satire based on the true story of young woman (Phoebe Cates, from *Fast Times at Ridgemont High*) who pops up in 19th-century England as a beggar who soon has anyone with any money convinced she's a Javanese princess. Stephen Rea (*The Crying Game*) is our narrator, an Irish journalist trying to figure out who she really is. Cates is fabulous as Caraboo, and though the audience is always suspicious of her true nature, Cates dives into this role so fully that we still keep guessing. Jim Broadbent, Wendy Hughes, John Lithgow, and Cates' real-life husband Kevin Kline form a supporting cast so outstanding that any weaknesses in the script are easily forgiven. Not that there's much to forgive; *Princess Caraboo* is a very enchanting tale filmed with a great attention to setting, costumes, and even makeup. It's very satisfying to watch the elite of society in this film, with their silly attachments to pomp and circumstance, make fools of themselves. This movie would be great for the whole family, and is playing in plenty of local theaters.

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## YNEWS

by Topher Hunter

Welcome (back) to Caltech! For those of you who are entering Frosh, I wish you the best of luck, and for those of us who are returning, I wish us all as little pain as possible. (AMa95, wheel!)

This is a (hopefully) weekly column which will help to keep you up to date with all that's going on at the Caltech Y. The Y is an organization on campus dedicated to the improvement of student life, both Graduate and Undergraduate. We're located upstairs in Winnett Center. Feel free to drop by any time to visit. We love the company.

The Y offers many services to the Caltech community, including: event cosponsorship, discount movie tickets, discount theme park tickets (Universal Studios, Disneyland, Magic Mountain, Sea World, etc.), volunteer opportunities, hiking trips, and Decompression, to name a few. Our student Excomm meets every Monday at noon in the Y lounge, so if you're interested, drop by and find out more about us.

Again, good luck with the year, and we'll see you around!

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# RANKINGS

FROM PAGE 7

participants who [actually ranked that particular school]... The resulting reputational rankings were then combined with educational data that had been provided by the colleges themselves. These included statistics that measured (1) student selectivity, (2) faculty resources, (3) financial resources, (4) graduation rate, and (5) alumni satisfaction."

"I've seen the survey that gets distributed, and it's basically just a [non-scientific] opinion poll... It would be very difficult to measure the quality of teaching in any school. What they end up ranking are the departments... The survey gets passed around to the faculty, and they rate other universities based on the things that they like—the things that are important to them." Aschbacher explains that all of the universities that rank in the top ten are research-oriented universities and believes what actually happens is that the faculties rank each others' re-

search programs, not necessarily the quality of teaching.

He adds that because Caltech is such a science and engineering oriented school, it gets lower grades from the liberal arts departments from other schools, which, unfortunately count towards the final score for academic reputation. However, this does not accurately reflect the quality of scientific education that one receives at Caltech nor does it affect the overall caliber of the students or faculty.

Aschbacher firmly believes that

Caltech is not losing any ground to other universities. If there is any decline in the overall caliber of students entering Caltech, it is because there is an decline in the caliber of students everywhere, probably attributable to both the decline in the K-12 educational system and a shift in the public's preference towards professions that have higher earning potential. "These rankings should not be of great concern to students... They are not scientific or objective... Keep in mind not to overinterpret such results."

## The Top 10 National Universities

1. Harvard University
2. Princeton University
3. Yale University
4. MIT
5. Stanford University
6. Duke University
7. Caltech
8. Dartmouth College
9. Columbia University
10. University of Chicago

## HHMI Exhibit comes to Caltech

■ from the HHMI Research Labs

An exhibit from the Howard Hughes Medical Institute is coming to Caltech in September.

Entitled *Advancing the Frontiers of Knowledge*, the exhibit consists of eight free-standing panels of silk-screened graphics, text and photos that briefly describe the Institute's programs. The panels depict each of the five areas of research supported by HHMI; cell biology and regulation, genetics, immunology, neuroscience, and structural biology. The Institute's science education efforts are also described.

In addition to the panels, each display includes a television monitor that plays a 13 minute film, *Howard Hughes Medical Institute: A Portrait*. In the film, a number of HHMI Investigators talk about what it means to be a scientist. The segment of the film about the grants program shows elementary school children in Tucson discovering for themselves the excitement of science.

Intended for display at the universities and other research institutions with which the Institute collaborates, the exhibit will be on display in the library in the Kerckhoff Building from September 19-30.

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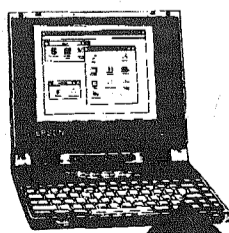
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## Notices

**1994-95 H&SS Course Schedules**—Schedules of courses expected to be taught in the Humanities and Social Sciences during the 1994-95 academic year are available in 228 Baxter.

**Auditions for Caltech Jazz Bands, Concert Bands, and Chamber Music** will be held Sunday September 25 noon to 4 p.m. and Monday September 26 from 4 to 6 p.m. and 8 to 10 p.m. in room 12 of the Student Activities Center, located under Fleming House. There is a sign-up sheet on the door of room 12. All are welcome regardless of previous experience. Info: Bill or Delores Bing at (213) 684-8964 or x6198.

**Dances and music of many nations** is the *what*. Every Friday evening from 7:45 p.m. to 11 p.m. is the *when*. Throop Unitarian Church at 300 Los Robles at Del Mar is the *where*. You and all your friends that are interested in an atmosphere of friendship, relaxation and yet a challenge to your mind and feet is the *who* and *why* offered by the Pasadena Folkdance Co-op. The Co-op, a fifty year old club that has offered folks the opportunity to enjoy International Folkdancing, will continue that tradition throughout the month of October. To protect the wooden dance floor all are asked to use soft soled shoes. A \$1.50 contribution is requested from all participants. October 28-30 many Co-op members will participate in Folkdance Camp Hess Kramer. For more info on this camp call 310-478-6600.

A self esteem group will be offered to undergraduate students beginning October 13, 1994. Participants will explore personal attitudes and beliefs which directly affect one's feelings about oneself, and learn skills to increase self confidence and self esteem. The group size will be limited to 6-8 members. Those interested should call Virginia at 818-395-8331 to arrange a meeting with the group co-leaders prior to the group's first session to discuss the student's and the group's expectations and goals.

A new women's group is forming designed to help women examine a range of issues relevant to their lives and experiences. We will explore the barriers for women in achieving success, balancing career and personal goals, and challenges in professional or personal relationships. These and other concerns raised by group members will be discussed in a confidential group setting over the academic year. Each group member needs to meet with the group leaders for a pre-group interview. If you would like more information or to schedule a pre-group interview, please contact the Counseling Center at 818-395-8331. The group will meet weekly on Tuesdays at the Counseling Center beginning late October.

**Women's Glee Club Sign-ups:** The Caltech Women's Glee Club is having sign-ups and voice placement this Sunday from 1-4 p.m. in the Student Activities Center, Rm. 1, and Monday from 2-5 p.m. The first rehearsal will be this Monday from 5-6 p.m. in SAC 1. Regular rehearsals are held Mondays from 7:30-9:30 p.m. and Wednesdays (with Men's Glee Club) from 5-6 p.m. We'll be performing carols, madrigals, American folk music, and, with the Men's Glee Club, movements from Stravinsky's "Symphony of Psalms"

and Mozart's "Requiem". All members of the Caltech community are welcome to join. For more information contact Laura Brady, President, (laura@ugcs) or Monica Hubbard, Director, at x6260.

The Gay, Lesbian and Bisexual Support Group meets the first and third Tuesdays of each month at 7:30 p.m. in the Health Center Lounge. This confidential meeting is open to all Caltech community members looking for a supportive context in which to address questions and concerns about sexual orientation — including coming out, being out, self-discovery, coping with families.... We begin with a focus topic but move to whatever is feeling most relevant to the group that night. Refreshments are served. For information, please call 395-8331.

**CIT Guitar Classes** for the winter term will meet on Tuesdays starting October 4 in SAC 1. Beginning classes will meet from 4:30 p.m. to 5:30 p.m.; intermediate classes meet 3:00 p.m. to 4:00 p.m.; advanced classes meet 5:30 p.m. to 6:30 p.m. Classical and Flamenco repertoires are explored but techniques transfer to other styles of guitar. Classes are free to Caltech students and other members of the Caltech community (space permitting). Undergraduates can receive 3 units of credit if they choose. The instructor, Darryl Denning, can be reached at 213-465-0881.

**Professor Monica Cohen** will explore canonical Victorian novels by such authors as Scott, Austen, Bronte, Gaskell, Eliot, and Dickens in Lit 130a offered Wednesday evenings at 7:30 fall term. Special attention will be paid to questions of work and vocation, domestic labor and professional career, renunciation and desire, self and community, the psychological and the political. Although works by male and female authors alike will be read, the course will emphasize gender differences as a vehicle for discussing the moral dilemmas represented in each novel. Register now.

## Coming Events

The 4th Annual Free Information Fair and LDWalkathon, a joint project of the Los Angeles Chapter of the Learning Disabilities Association of California and the Los Angeles Branch of the Orton Dyslexia Society will be held on Sunday, October 2, 1994 at Los Angeles Pierce College in Woodland Hills. Many exhibitors knowledgeable about Learning Disabilities, Dyslexia and Attention Deficit Hyperactivity Disorder will be available to share their expertise with those seeking information. Registration begins at 8:00 AM, The Free Information Fair opens at 9:00 AM. To receive a LDWalkathon brochure or request additional information please call 818-407-4111.

Please mark your calendars for October 15, 1994 and join the women and friends of the **Pasadena Rape Crisis Center to Take Back the Night!** This march is for and about women. Women will join together on the streets of Pasadena and Take Back the Night in

a stand to end violence against women. The march starts at 6:00 p.m. The Crisis Center also offers monthly self defense classes, survivor support groups, and short-term therapy. For more information, please call 818-793-5171.

**Pasadena Presbyterian Church** will hold its annual **Patio Sale** September 24 and 25 selling "previously owned" merchandise to benefit local missions and charities in the San Gabriel Valley. The sale is open to the public from 8 a.m. to 4 p.m. on Saturday the 24th and from 11:30 a.m. to 4 p.m. on Sunday the 25th. The church is located at the corner of Colorado and Madison in Pasadena. Housewares, books and clothing, costume jewelry, toys and games, furniture and appliances are just a few of the items donated for the sale by PPC members. For more information on the Patio Sale or other church programs, please call 818-793-2191.

**Amnesty International Group 22, Pasadena/Caltech** announces its Annual "Rummage for Rights" Sale Sunday, October 2, 1994 at 1043 E. Del Mar Blvd. from 9:00 a.m. to 4:30 p.m. Proceeds from the rummage sale will be used to support Amnesty International's human rights activities. Donations of items to the sale will gladly be accepted, and are tax-deductible. Contact group coordinators Jim Smith (818-799-6810) or Martha Termaat (818-281-4039) to donate items for the sale or to obtain more information about the event.

The Caltech Men's Glee Club announces the opening of its 1994-95 season with Annual Holiday Concerts, Stravinsky Symphony of Psalms, and a Mozart Requiem. Rehearsal times are Monday 7:30-9:30 and Wednesday 5-6 with the Women's Glee Club. Try-out times are Sunday the 25th from 2-5 in SAC 3 and Monday the 26th from 1-4 in SAC 3, or at the first rehearsal on the 26th at 5 p.m. in Beckman Auditorium. The Caltech Chamber Singers is also opening its season. Rehearsal times are on Tuesday from 5-6:30. For the Glee Club, all are welcome to join regardless of experience. Auditions are required for the chamber singers.

The Child Educational Center presents the 1994 **JPL Arts & Crafts Fair**. There will be over 80 booths of hand-crafted goods, entertainment, food, and children's activities. THE JPL Space Museum will also be open during the Fair hours. Parking and admission are free. The fair will be open on Friday, October 14 from 3 p.m. to dusk and Saturday and Sunday the 15th and 16th from 9 a.m. to 5 p.m.. For more information, call 818-354-8720.

## Club Announcements

The Caltech Y has volunteered to participate in **United Way's Community Care Day**. We want to provide volunteer opportunities for staff, faculty, and students. We will be providing volunteers for special projects to help United Way agencies in your community. We will let you know where we will be holding

our **Event Hick-off Rally** where there will be plenty of food, friends, and fun! The activities will take place on Saturday, October 8, 1994 from 8 a.m. to 4 p.m. Stop by the Caltech Y or call Athena at x6163 to sign up by Friday, September 30th.

## Fellowships and Scholarships

The **Northrop Grumman Corporation** is offering three \$3,000 scholarships at Caltech for the 1994-95 academic year. (The exact number of awards will be determined shortly.) Scholarships are available to *all* students (including freshmen) enrolled full-time and majoring in electrical engineering, mechanical engineering, aerospace engineering, computer science/engineering, or manufacturing engineering. A GPA of at least 3.0 is required. Students must show evidence of a strong academic record and a career interest in the aerospace/defense industry. Applicants must be U.S. citizens and may be concurrent recipients of another company's scholarship. Resumes and academic transcripts must be received by the Financial Aid Office at 515 S. Wilson by 5:00 p.m., Friday October 21, 1994.

The Los Angeles Chapter of the **Data Processing Management Association (DPMA)** is offering at least one scholarship for \$1,000, provided by the Bert A. Monaghan Scholarship Fund. Eligible students must be majoring in computer science, must have filed a FAFSA application and have demonstrated financial need. Application forms and guidelines for additional requirements are available at the Financial Aid Office. Completed applications must be received at the Financial Aid Office at 515 S. Wilson no later than 5:00 p.m., Wednesday November 23, 1994.

The **American Concrete Institute (ACI)** is offering several awards. The Peter D. Courtis Concrete Construction Scholarships are two \$1,000 scholarship awards for undergraduate study in concrete construction for the 1995-96 academic year. Eligible students must be enrolled at least half-time and must be a senior in 1995-96. The application, available at the Financial Aid Office, with all required supporting documents is due January 10, 1995. ACI Committee is also offering one ACI-James Instrument Student Award in the amount of \$800, for original student research on nondestructive testing of concrete. Applicants must submit a technical paper describing the research. The award is open to undergraduates or graduates, and the research work must have been completed within two years of the submission date. Completed technical papers must be received by ACI Committee no later than November 30, 1994 at the following address: c/o Dr. Allen Davis, STS Consultants Ltd., 431 South 300 East, Salt Lake City, UT 84111. ACI is also sponsoring three different competitions: the Concrete Cube competition, the Concrete Egg Protection Device competition, and the Concrete Projects competition. For more information about these awards, contact the Financial Aid Office.

**Milton Bradley's Pass the Pigs**, the game that uses pigs as dice, is sponsoring a national search for the biggest "pigsty" on college campuses. The contest is open to college students across the country; entrants must be nominated by their RA's. The grand prize winner will receive \$1,000, a professional room cleaning, an on-campus party for 100 of his/her closest

friends and a Milton Bradley prize pack. The nominator of the grand prize winner will receive \$1,000. To participate, contestants must send a 4x6 photo and a brief paragraph describing why they're proud of their "pigsty." Entries must be postmarked by October 10 to Pass the Pigs' Pigsty c/o Fleishman-Hillard, Inc. 1330 Avenue of the Americas NY, NY 10019. Don't forget to have the RA sign the nomination.

The **Howard Hughes Medical Institute** will be awarding 80 fellowships for full-time study towards a Ph.D. or Sc.D. degree in various biological sciences. Fellowships provide an annual stipend of \$14,500 and a \$14,000 annual cost-of-education allowance. The fellowships are intended for students who have completed less than one year of graduate study toward M.S., Ph.D., or Sc.D. degrees in biological sciences. The application deadline is November 4, 1994. For copies of the application or more details, write Hughes Fellowship Program, The Fellowship Office, National Research Council, 2101 Constitution Avenue Washington D.C. 20418 USA; fax 202-334-3419; email infofell@nas.edu; phone 202-334-2872.

The **Nuclear Regulatory Commission Fellowship Program** provides funds for students interested in pursuing master's degrees in areas such as health physics, nuclear engineering, and specialty engineering disciplines with emphasis in instrumentation and control systems, materials science, materials engineering, or metallurgy. Fellows must work at the NRC for a minimum of nine months prior to beginning graduate school, and must agree to work for the NRC for four years following satisfactory completion of a two-year master's program. The fellowship provides full payment of tuition, fees, and books, as well as a monthly stipend of \$1,800. A \$5,000/year cost-of-education allowance is paid to the academic program in which the fellow is enrolled. For applications, contact Rosa Etta Cox at 615-576-9279 or Tom Richmond at 615-576-2194. Applications are being taken through January 23, 1995 and awards will be announced in April 1995.

Applications are now being accepted for three postdoctoral fellowships sponsored by the U.S. Department of Energy's (DOE) Office of Health and Environmental Research. The **Global Change Distinguished Postdoctoral Fellowships** offer research opportunities related to the U.S. Global Change Research Program, which addresses the following strategic priorities: observation and data management, process research (including physical, chemical, geological, biological, economic and social), integrated modeling and prediction, and assessment. Up to seven new awards will be made with first-year stipends of \$35,000. The application deadline is December 15, 1994. Applicants must have received a doctoral degree or equivalent in an appropriate discipline after March 31, 1992. The **Alexander Hollaender Distinguished Postdoctoral Fellowship Program** offers fellowships in the energy-related life, biomedical, and environmental sciences as well as other scientific disciplines. Up to 10 new fellowships will be awarded with first-year stipends of \$37,500. The deadline for the fellowship program is January 15, 1995. Applicants must have received a doctoral degree or equivalent in an appropriate discipline after April 30, 1993. The **Human Genome Distinguished Postdoctoral Fellowships** offer up to five new awards with first-year stipends of \$37,500 in disciplines of biology, chemistry, physics, engineering, mathematics, and information science. The deadline for the applications is February 1, 1995. Applicants must have received a doctoral degree or equivalent in an appropriate discipline after April 30, 1992. All awards will be made by May 1995. For applications, write to Science/Engineering Education Division, Oak Ridge Institute for Science and Education, P.O. Box 117, Oak Ridge, Tenn. 37831-0117, or call 615-576-9975.

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