

"Life is like
a used
vacuum
cleaner."

The California TECH

"Sometimes
it sucks;
sometimes
it doesn't."

Volume XCVI, Number 27

Pasadena, California

Friday, May 19, 1995

Caltech Professors Elected to Fellowship in AAAS

from Public Relations

Caltech faculty members Thomas Ahrens, Paul Jennings, and Anthony Readhead were recently elected to fellowship in the American Academy of Arts and Sciences, one of the oldest honor societies in North America. The trio brings to 71 the number of Caltech faculty who are fellows of the AAAS.

The academy, founded in 1780 by John Adams and other early American leaders, aims "to cultivate every art and science which may tend to advance the interest, honor, dignity, and happiness of a free, independent, and virtuous people." For more than 200 years, fellows of the academy have pursued this purpose by gathering together the country's leading figures from universities, government, business, and the creative arts to exchange ideas and to promote knowledge in the public interest.

Ahrens, a professor of geophysics, earned his BS at MIT, his MS at Caltech, and his PhD at Rensselaer Polytechnic Institute. In 1967 he joined the faculty at Caltech, where he studies planetary impacts, conditions in the earth's interior, and the dynamic

compaction of materials using high-speed cannons. He is well known in the scientific community for his work on the behavior of matter in the earth's core, and for calculating what risk there is that the earth will be struck by an asteroid and what effect such an impact would have on the planet. He achieved a measure of national fame last summer when his predictions about the effects of Comet Shoemaker-Levy 9 on Jupiter's atmosphere turned out to be very accurate.

Jennings, a professor of civil engineering and applied mechanics, earned his BS at Colorado State University and both his MS and PhD at Caltech, and joined the faculty in 1966. He is an expert in the design of earthquake-resistant structures and in how the earth moves during a tremor, and he played an active role in the development of California's earthquake standards. He was chair of Caltech's Division of Engineering and Applied Science for four years, and since 1989 has overseen Caltech's academic affairs as vice president and provost. He recently stepped down from this post and is now the acting vice

president for business and finance.

Readhead, a professor of astronomy, earned his BS at the University of Witwatersrand, South Africa, and his PhD at the University of Cambridge, England. In 1977 he joined the faculty at Caltech, where he studies quasars, active galaxies, cosmology, and the microwave background radiation, that faint remnant of the Big Bang. He developed a widely used technique for producing real images with very long baseline interferometry, a procedure in which data from widely separated radio telescopes are combined to produce ultra high-resolution observations. The application of this technique to active galaxies and quasars by Readhead's research group is now laying the foundation for theories of the evolution of active galaxies. His work on the microwave background radiation helped to eliminate many theories of galaxy formation and to focus attention on theories in which a predominant constituent of matter is not composed of protons and neutrons but is "non-baryonic," or dark matter.

Caltech Presents Residence Life, Deans' Cup, and Master's Awards

by Suzette Cummings

The Deans' Cup and the Residence Life and Master's Award were presented at a luncheon in The Athenaeum on May 1. These awards, accompanied by small cash prizes, are designated for students whose concern for fellow students is demonstrated by persistent efforts to improve the quality of undergraduate life.

Jonathan McDunn and Kathleen Tozer each received a 1995 Deans' Cup. Jon is a senior in chemistry and Kathleen is a senior in biology.

Jon received the Cup for his

Kathleen received the Cup for her contributions to the Caltech community. She has participated in student government at both the student-house and campus-wide levels. She was appointed to a year-long term on the Board of Control, which both works to educate the Caltech community about the Honor System and hears cases involving possible breaches of the Honor Code. Kathleen is also a member and secretary of the Student Affairs Advisory Committee.

profound impact as a student leader both in student-elected offices and through "behind the scenes" work in campus activities. His extracurricular activities include serving as ASCIT President, volunteering as stage manager for various ASCIT drama productions, single-handedly serving as CLUE editor, and assisting as a representative of the Core Curriculum Committee.

This year's Residence Life and Master's Award has been given to William Cesarotti, a senior in Dabney House. William (Cesar) has been actively involved in undergraduate life since entering Caltech and has made a significant impact on this campus while a student here. Cesar was the BOC rep for his house, the Dabney Social Vice President, and, most recently, the president of Dabney House. He has consistently worked to enhance communications between students and the Residence Life and Master's Office and intervened on behalf of Dabney when necessary. He is a wonderful example of leadership on this campus and has been a friend to the Residence Life and Master's Office. Congratulations to each of these students for their outstanding contributions to improving the quality of undergraduate life at Caltech.

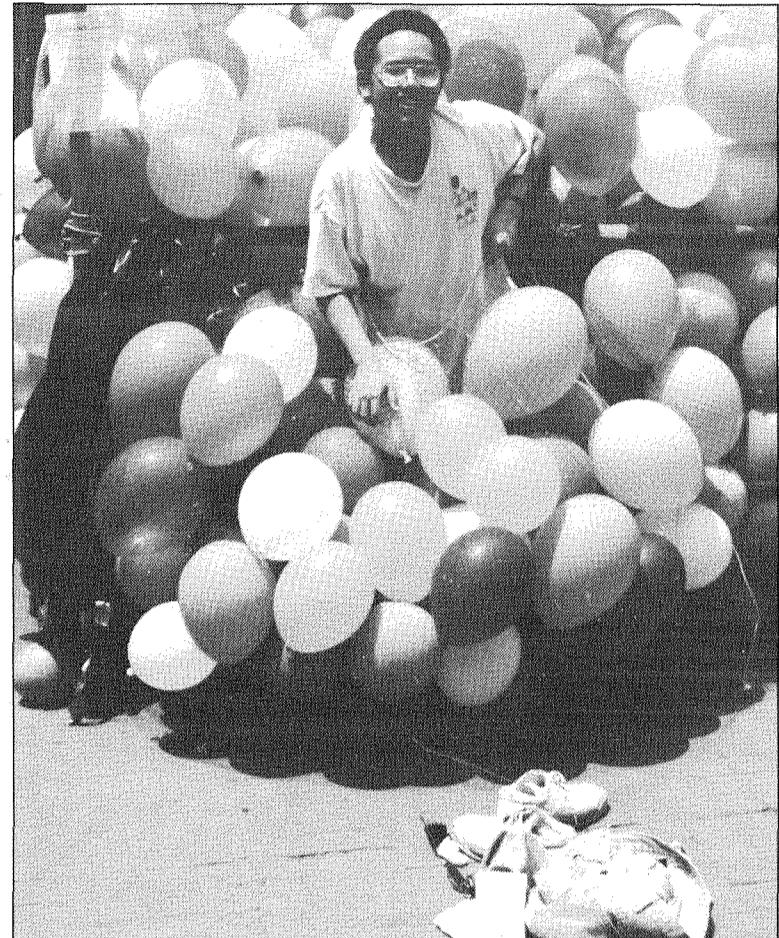
OPEN HOUSE WITH AVERY ARCHITECTS

Friday, May 26th

1:00 p.m. - 2:30 p.m.

Steele House - 355 S. Holliston

See plans, sketches and models of Avery House and hear the architects describe some of the features of the House. Students, faculty, and staff welcome.



Editor Wei-Hwa Huang gets caught with his pants down (literally). "I...had sharp objects in my pants...it was the logical thing to do."

Ditch Day 1995

by the Editors

Early Thursday morning, seniors were seen frantically finishing up their stacks, all in an attempt to get off campus before the 8:00 a.m. threat of being duct-taped to a tree. Ditch Day, a tradition dating back to 1921, was yesterday, fulfilling that promise made to all curious frosh: "Ditch day is tomorrow, frosh, unless tomorrow is today."

During past ditch days, there were no stacks but only a day when seniors disappeared from campus. The underclassmen decided that this was unfair and took the opportunity to prank the rooms so the returning seniors were unable to return. Later, in an effort to protect their room, seniors created the concept of the "stack" in which underclassmen could not get in and prank the room without getting past barriers which tended to be monolithic constructions of cement, brick and wood. Even later, the practice of leaving a bribe of food and other goodies for those breaking through came

into practice and is continued to this day.

This year saw large collaboration among seniors. A large waterslide in Blacker courtyard, a human-rat maze on the north house roof, a large pit of balloons in Ricketts' courtyard, and a fully-stocked MacGyver truck roaming around the campus were among the most obvious signs that nobody was going to class on Thursday. Other students hijacked Diahatsu's, burrowed through concrete, solved complex mysteries, and generally combed the campus for clues to gain access to the seniors' rooms.

Next week *The California Tech* plans to run abstracts of all of the stacks and run additional photos. Please submit abstracts to *editors@tech*, and photos to the "In" box outside the office in the Student Activities Center.

See pages 6-8 for photos from Caltech's favorite tradition.

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Letter to the Editor

Dear California Tech:

I was disturbed to read Zack Berger's "Avery House or Avarice House?" (May 5, 1995). It is true that R. Stanton Avery is a brilliant entrepreneur, but he has also been for many years one of Caltech's best friends. To link the name "Avery" with "Avarice" is an insult to a man who has been generous for decades to our university—both with his time and his wealth. Although some of Caltech's students may lament the very existence of private capital, Caltech could not exist without the support of philanthropic businessmen like Stan Avery.

Jenijoy La Belle
Professor of Literature
x3605

Please send submissions for letters to the editor to The California Tech, Caltech 40-58, Pasadena, CA 91125, or by electronic mail to 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.

Editors' Corner

From your Friendly Tech Editors

Wow! What a day! There is no Ditch Day for *Tech* editors! Check out the huge section inside. Also, we're welcoming submissions for next week, including abstracts of various stacks and more pictures!

In other editing news, Wei-Hwa Huang has decided to take a reduced role on our staff. He will be creating artwork, writing articles, and advising the current editors for at least the remainder of the term.

Finally, we're still accepting additions to our writer's mailing list. If you're not sure that you want to contribute to *The Tech*, try a week or so on the mailing list: if you see an article that looks interesting to you, write! Email editors@tech with your name or come to the Coffeehouse at 12:15 on Fridays!

Deadlines for Submission to The Tech

Letters to the Editor — 5 p.m. Monday
Events and Notices — 5 p.m. Tuesday
Unsolicited Articles — 5 p.m. Tuesday
Regular/Semi-Regular Columns — 5 p.m. Wednesday
Articles, News Submissions — 5 p.m. Wednesday
Art/Photo Submissions — 5 p.m. Thursday

Work for The Tech!

3 units of PA15 and free food all in one!
12:15, Fridays, Coffeehouse

Games & Puzzles

Drink of the Gods

by Wei-Hwa Huang

One of the most stunning achievements in shareware games for the Macintosh is that of Ambrosia Software, Inc., a small company in Rochester, N.Y. Readers may be familiar with some of their software: Maelstrom, a re-rendering of the old arcade game Asteroids; and Chiral, a molecule matching game that doesn't quite fit the real way molecules are structured but is addicting nonetheless. Both of these games were released early last year and rocketed to the top five in the *Inside MacGames* poll, an impressive feat for a game with a \$15 price tag.

Well, they've created another duo of remakes of arcade classics: Aperion, released Febru-

ary 13, a clone of the old Atari game Centipede; and Swoop, released May 1, a clone of the Bally/Midway game Galaxian. Both games require a color Macintosh with 256 colors, and registration for each one costs \$15.

Remember Centipede, the only game in the early 80's where everybody knew about the bugs? You had a zapper (controlled by a trackball) where you shot off waves of centipedes, spiders, fleas, and scorpions. Well, Aperion is Centipede with bonuses; now you can get enhancements to your ship that will let you shoot faster, earn more points, or render you invulnerable (for a short while). The mouse control works even better than the old trackball, and the sound effects are addicting. Players of Maelstrom will notice a definite similarity in the scoring and bonuses; it's by the same person, after all. The help screens are interesting and very readable, as are many of the menus. Centipede was popular enough to introduce a spin-off, Millipede; let's hope Aperion does the same.

Swoop, on the other hand, was somewhat of a let-down. It still beats a majority of the shareware games out there for the price, but I felt that the programmers could have done better. Swoop is a take-off on Galaxian, with extra bonuses like shields, multipliers, and special shots. It also offers a bonus stage similar to that found in Galaga or Gyruss. So far so good, but the

lack of mouse control makes the game rather difficult to shoot with accuracy. Also, unlike the old Galaxian and Aperion, the screen is oriented wide instead of tall, which means you have much less room for maneuvering, similar to the Atari ports of Galaxian. The scoring is also somewhat strange; getting a perfect score on the first stage scores equivalent to the hard work of twenty, seemingly making the game a game of replaying the first stage than endurance. The help screens are in a uniform narrow typeface that is taxing to read. This looks cool, but I think I'd rather go back to Galaga '88, despite the pulsing music that Swoop offers.

You can download both games at Ambrosia's World Wide Web site,

<http://digitmod.com/ambrosia/ambrosia.html>

Check them out!

Contest Corner

Many computer games have "Easter eggs," or interesting things that happen when the player plays at a certain time or presses a special set of keys. Unlike cheat codes, these usually do little to the actually game play. I haven't found any in Aperion or Swoop yet, but there is one in Maelstrom when you set the system clock to a certain date. What date is it? Send your answer to gp@tech by 8:00 p.m., Tuesday.

The winner will be chosen at random among the correct entries. Sorry, only people of the Caltech/JPL community allowed. Winner wins a check for \$10, which you can use in part to register your copy of Aperion or Swoop! Only one entry per account, please.

Contest Results

Danger!

Here are the Questions:

Editorial

Take a Number, Please

I dream of advanced technology. I dream of the day when there will no longer be need for AT&T ads. I dream of the day when I can register for all my classes at home, in front of a simple terminal.

But I'll settle for a simple goal: A giant, lighted, number sign in Winnett lounge. You know, one of those contraptions that has "now serving" in white stickers across the top and a big red digital number display under it. It'll will have a piece of string coming down the side of it; when someone pulls the string the sign will go "ding!" loudly and the number on it will increase by one.

Why do I suddenly have a penchant for lighted signs? Well, I've been here for a while, and there are always these dreaded occurrences when Winnett tests its maximum capacity. No, I'm not talking about SEDS movie night. That's right, I'm referring to Pre-registration. Last week I also got treated to the off-campus room pick as well. Every single time, we've had a large group of students trying to wait

for a number. At least the Housing office supplied numbers beforehand; I'm predicting that on Monday pre-registration will be like any other time: a few hundred students, some trying to enforce a giant number list they started at the beginning of the wait, some trying to get in line early so they can get to class. The Registrar, of course, could care less what order the students come in; they can't hope to decide what ordering is fair and just and process pre-registration at the same time.

Now, I don't exactly plan to tell the Registrar or the Housing Office how to do their jobs. They can organize a number assignment if they wish. They can decide to let people go to the bottom if they're not there when the number is called. They can let the students fight tooth and nail over who was there first and who was waiting longer, and which takes priority. But on Monday there was a man shouting numbers all the way to 250 and beyond. I'd hate to have to do that. There were students sitting there for 4 hours. I'd hate to do that, too.

How difficult is it to get this gadget? I've seen it many places. Is it very expensive? Are all of us just really stingy? Can't someone just build one? Is this place just not turning out engineers anymore?

I guess I dream too much.

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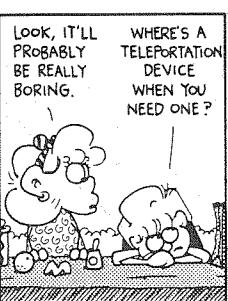
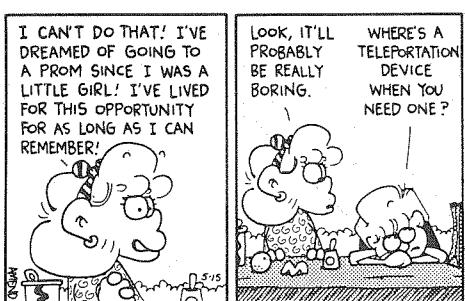
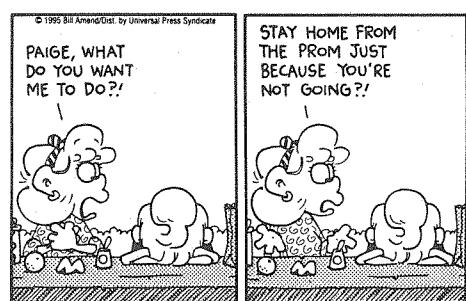
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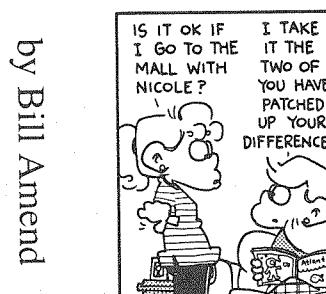
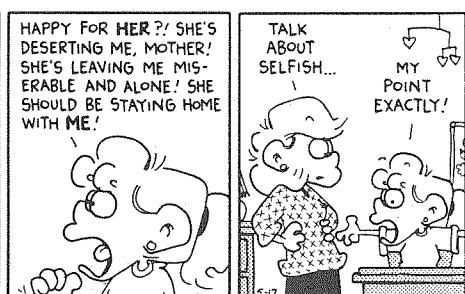
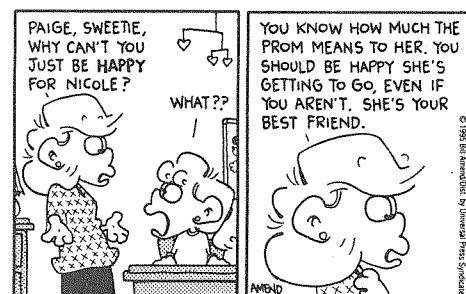
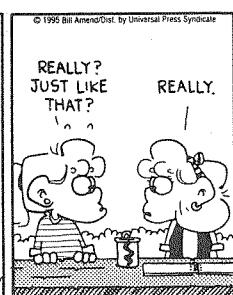
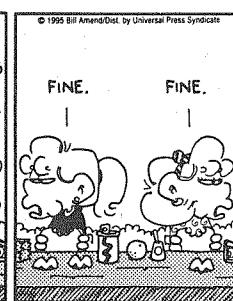
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FoxTrot



by Bill Amend

The fifth annual Tribute to African-American History Through the Arts will be held this weekend at the Tournament House of the Wrigley Mansion, 391 S. Orange Grove Blvd., in Pasadena. The event is co-sponsored by the Pasadena-Foothill Branch of the Los Angeles Urban League, Caltech, and for the first time the Pasadena Tournament of Roses Association.

The exhibit hours are 1:30 p.m. to 6:00 p.m. Saturday and from noon to 6:00 p.m. Sunday. As in past years, when the event was hosted by Caltech, admission is free.

A gallery of paintings, batiks, sculptures, mixed-media works and Afrocentric clothing and jewelry, created by prominent and emerging African-American artists from southern California, will be exhibited and on sale to the public. Nationally acclaimed artist Charles A. Bibbs, who will be showing his unique graphics and masks, will be the spotlighted artist. The event will feature the work of more than twice as many exhibitors as were on display during previous shows.

Tours of the Tournament House will also be conducted both days.

Ninth Annual Concert All Mozart

Piano Trio in C, K. 548 (Fri.)
for Violin, Cello and Piano

Piano Trio in B flat, K. 502 (Sat.)
for Violin, Cello and Piano

Caltech Chamber Music Program
Delores Bing, Director

Symphony No. 21 in A, K. 134
Caltech Chamber Orchestra
Allen Robert Gross, Conductor

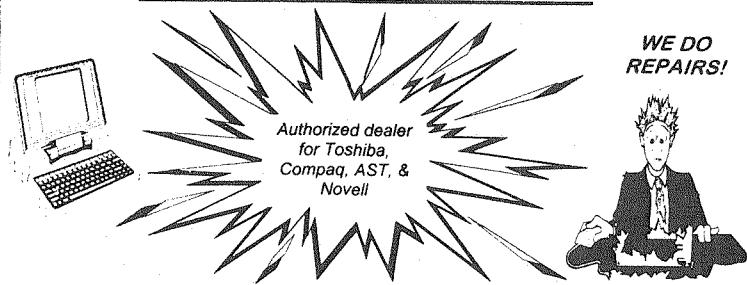
Requiem, K. 626
Caltech Glee Clubs
Donald Caldwell, Conductor

Friday, May 19, 8 pm Saturday, May 20, 8 pm
Dabney Lounge, Caltech

Free Admission

Come early - Concerts are always SRO!

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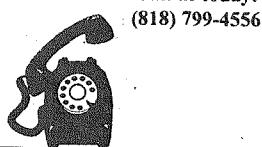
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ASCIT FRIDAY NIGHT MOVIE

STAR TREK GENERATIONS

SATURDAY: THE NAIR MOVIE

Spanking the Monkey

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\$1.50 for ASCIT members \$2.00 for others

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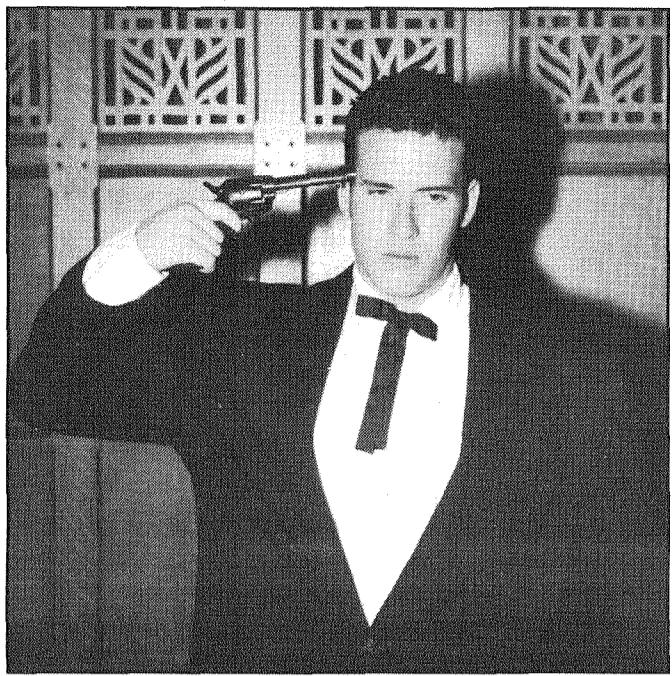
Wild Reeds

Daily 4:45, 7:15, 9:45 p.m.
Sat-Sun Bargain Matinee 2:00 p.m.

Isabelle Huppert

AMATEUR

Daily 5:15, 7:40, 10:05 p.m.
Sat-Sun Bargain Matinee 2:45 p.m.



Third term pressure getting to you? Come see freshman Phillip Rodriguez III as John Wilkes Booth in the TACIT musical production **Assassins**, a quirky look at the lives of those who would kill the President of the United States.

The musical will be shown in Dabney Lounge on May 26, 27, 28 and June 2, 3 at 8 p.m. and May 29 and June 4 at 2 p.m. Tickets are \$10 for general admission, \$6 for students. For more information, call the Caltech Ticket Office at x4652 or 1-800-423-8849.

IHC Minutes 5/16/95

Present: The IHC, Grace Yang

» Alumni weekend went fine, but in future the house presidents would like direct notice and better food for the alums. Blacker expressed concern over the coexistence of the Associates Tea and this alumni reception because they didn't have time for their alums due to setup for the tea.

» Interviews this week Wednesday and Thursday for Freshman admissions committee, next Wednesday and Thursday for Curriculum and Aca-

demic Policies; and Scholarships and Financial Aid, and UASH respectively. If you would like to cancel or are unsure of your interview time please speak to your house president or Tom or Laura (*laura@ugcs*).

» Tom brings up that a committee for the interests of Avery house is forming.
» If you want to be on the Summer housing waiting list call Residence Life ASAP.
» "Speaking of Alcohol, I owe you money" Nestor to Brian.
» The Interhouse trophy has

disappeared, please return it to Fleming or if you know who has it please talk to Brian.

» Grace Yang rolls in and discusses the fumble rule:
Kickoff is alive. On the ground during a play the ball is dead, there's a loss of down.
where the ball hits the ground.
On the snap, dead at line of scrimmage Punt return, same as kickoff Rule passes 6-0-1.
» Meeting adjourns at 11:10 p.m., due to the fact that nobody is silly.
Exhaustedly submitted,
Laura Brady IHC Secretary

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Palette des ARTISTS

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ASCIT

Announcements

Class Officer signups will be put up on Friday (today). If you want to run for senior class president, senior class treasurer/secretary, junior class president, or junior class secretary, sign up on the sheets outside Winnett Lounge. Sign-ups will be taken down on Friday, May 26th, and the election will be held on the following Monday. ASCIT appointed the following people to the following positions: Totem Editors: *Thanh-Nga Tran, Kevin Du, Tanya Kutasz, Amanda Eckerman, and Mina Leung*. Little t Editors and Business Manager: *Alan McConchie, Jennie Yoder, and Aaron Passey*. Big T Editors and Business Managers: *Michael Ru, David Wang, Jian Zhang, Donna, Jessica Chang* (Business Manager), *Inn Yuk* (Business Manager), and *Tiffany Lee* (Business Manager). Movies Chair: *Peter Manca*.

YNEWS

by Donna Ebenstein

International day is here again! There will be free food and entertainment *today* (May 19) in Winnett Quad between 4 and 7 p.m. The tentative schedule of events is as follows:

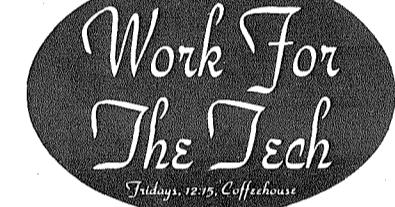
4:00 Karate Demonstration
4:30 Vietnamese Music
5:00 Korean Dance
5:30 Greek Dancing
6:00 Calypso Band

Drop by and get a taste of the diverse cultures of Caltech students.

On a less fortunate note, Broomball is canceled for this term due to our inability to reserve sufficient ice time—but next fall we're planning to have two weekends of Broomball to make up for the loss.

Andrew Schoen, the new president of the Caltech Y, is setting up office hours for the rest of this term. If you have suggestions or questions about the Y, you can stop by the Y lounge (second floor of Winnett) between 11 a.m. and noon on Mondays, Wednesdays, and Fridays or between 7 and 9 p.m. on Monday nights. If you can't make it at any of these times but still wish to talk to the President, you can call Andrew at x1060.

Don't forget to come to International Day!



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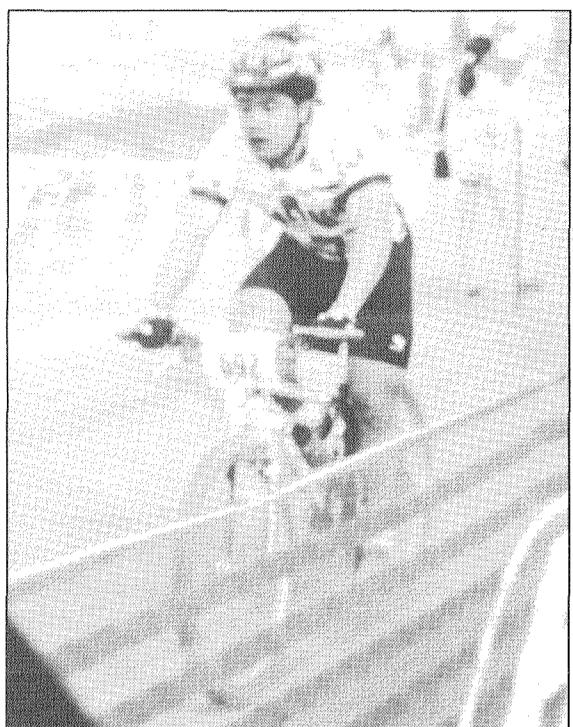
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SPORTS



COURTESY MICHAEL KANTNER

Paul Kim coasts after a strong finish.



COURTESY MICHAEL KANTNER

Velo Races NORBA

by Michael Kantner

Two members of Caltech Velo raced at the Santa Fe Dam NORBA race on Sunday, May 14. Paul Kim and Michael Kantner competed against cyclists from throughout California and Nevada. While this was not a collegiate competition, it provided good training for the upcoming collegiate race in Riverside.

The course was 6 miles of access roads and trails through the Santa Fe Dam Recreation Center. While being very flat, it was still very challenging since it was covered with loose sand, gravel, and small rocks. Upper body strength was as important as leg strength and endurance on this course.

Paul Kim raced in the 19-24 year old beginner category. He and about 60 other racers completed two laps of the 6 mile course. After the first lap, Paul had a solid position in the middle of the field. He was far ahead of the back, but not in contention to win. As long as he had no mechanical problems, he was assured a spot in the middle of field. His second lap was uneventful, and he finished 36th.

Michael Kantner, racing in the 25-29 year old sport category, was not as fortunate. At the start, someone fell over in front of Michael. He had to stop to avoid running over the person, and this put him at the back of the 70 rider field. After the first turn, he quickly moved through field

KELROF Update: A Day in the Life of Mortimer

by Tom Dmukauskas

By now, you already know when KELROF is and that you are going to run it, so maybe you'd like to know what it's like. We dug this little anecdote out of the KELROF archives, doubtlessly composed in '77 or '78. It sure struck a chord with us...

You are Mortimer Meek-mild, unit random Techer, gliding down the backstretch amid the murmurs of the gathered multitude. You come out of the curve accelerating and pass the half mile where the Watchman calls out your time, "2:59.4." The crowd erupts in applause and a number of the House of the Horn shout "Ataway Mort baby. Look at that stride!" You will later earn the title "Awesome Mort of the Longstride," but you do not bend your ear to such praise now. You know you are in trouble. That last lap slipped to a disappointing 90.2 seconds. You dig in against the light cross-wind as you round the next curve. The harpsichord and flute of the fifth Brandenburg Concerto swell in a crescendo within your head as you stretch it out on the straightway. "4:28.6." Your effort has not been wasted. The last rays of the setting sun throw your shadow down the entire length of the track. You note that the cameramen are checking their lighting. You feel more alive and more lively now than ever before. You are 100 yards from completing you twelfth mile as anchorman for the KELROF 24 Hour relay team. Heavyfoot Sourbody steps on the track in front of you, hand outstretched for the baton. He is off with a sprint but you still overrun him and so you give him an encouraging pat on the back. "Git along, doggie." You are now jogging in a wide arc back to the timing tables. 5:57.3. Not bad for half a day's work. You pull off your damp "Big T" racing shirt and the wind rustles through the hair on you copper

tanned chest. You hear the clicks of a dozen cameras but you do not hesitate in putting on your "Texas is for Studs" T-shirt. Sinking to the cool grass you quickly undo the maze of safety lashings on your shoes and so remove them from your feet, stretching your well-manicured but occasionally blistered toes. The *Daily Planet* reporter approaches with notebook and stubby pencil in hand. "Mort, how do you feel at the halfway point?" You suck in air and growl, "Feel mean; feel jes' plain ornery." He withdraws scratching furiously in his notebook, only to be replaced by the "I-witnessed-it News" cameraman and a freelance photographer. You see the KELROF Field Commander intercepting another group of newsmen advancing on your left flank. "Please, gentlemen, he needs his Carbos." You slip beneath the awning where you and your fellow runners have spent the scorching day in cool shade. Supplied by the KELROF Quartermaster and erected by the KELROF Corp. of Engineers, the tent is now quite useless, but it has served its purpose. So, you reflect, it goes with Life. You half-fill a cup with E.R.G. from the 5-gallon cooler and drink slowly, feeling the fleeting fatigue fade and the slight tightness in your legs vanish. A handful of raisins for carbohydrates, an handful of peanuts for protein and a spoonful of honey for blood sugar, followed by another half cup of Gookinaid completes the refueling and replenishment ritual. The KELROF Supply Officer checks the remaining stock against his accounting of the original stores. The concentration written across his forehead is replaced with relief and you know by the way in which he sets his ledger aside that he will not have to resort to plundering San Marino in the wee hours of the Sabbath in order to feed the KELROF troops. He sets about his duties with a whistle - mixing another batch of Gookinaid. It is the dedication of such personnel which keeps the morale of the Eighth Light Regiment so high. You step out from beneath the canopy and make your way through the milling camp followers to your bag by the pole vault pits. Sitting with your back to the pits, you pull out your leg-sweats but these are softly lifted out of your grasp by gentle hands. You look up past a well-endowed frame and into the crystal depths of aquamarine blue eyes which mirror the pure, wholesome freshness of youthful female concern. Another dazzling apparition from Scripps with perhaps the most graceful set of ankles you have ever beheld approaches from afar. Kneeling on either side of you, these two creatures from another world commence massaging your legs and you happily abandon you powerful hamstrings to their tender care. From your bag you extract a clipboard and a pencil. You glance at the last AMa 95 problem of this week's set and close your eyes for five minutes until the trivial steps leading to the obvious answer are properly arranged and visualized in your mind's eye. It takes another five minutes to write down the three pages of solution. Tossing the papers back in your bag, your eyes catch those of the fair maidens at your feet. No words need be said, for they understand the glint in your gaze. She of the depthless eyes helps you into your leg-sweats, while the delicate but well-proportioned maid pulls your "Oklahoma: The Doormat of Texas" sweat-shirt over your head. You lie back with your head in one lap and a soothing hand stroking your brow. Your right hand is being clasped tightly to a chaste bosom rising and falling with each furtive sigh. As you descend into the unknown region betwixt wakefulness and dreamless sleep, dimly aware of the universe encompassing you, hearing the oaths of other runners, the babble of the crowd, and the soft staccato crunch of spikes churning up the parched track, as if through a long vaulted, stone corridor, you envision yourself running hourly six-minute miles forever. The notion is a pleasant one, but you are somehow conscious to the fact that all such good things must come to an end. Your heart is now beating only 36 times each mortal minute and you sink further into the realm of the fantastic. You hear trumpeters on a distant tower announce the triumphant return of the Master. You throw yourself before his feet and he picks you up out of the dust, entrusts you with the ancient sword of long lost mystic Rivercross, and sends you with his blessing on a noble quest to slay the dread Giant Armadillo which is laying waste the coastal harbors. Sighting the beast at last after months of tracking through impossibly rocky terrain, you give chase and offer battle, but it rises up on scaly wings and transforms into the fire-splitting Dragon Tyme, flying always just beyond the reach of your keen-edged blade. Disappearing in a fog bank, you emerge to find yourself among 2000 other souls in the midst of a marathon, cruising by the 15 mile mark in 89:45. You are passing former leaders who are dying off one by one on the treacherous mountain course. The air is thin but you rejoice in the absence of dragon fire. "Mortimer," whispers the wind through the trees. "Mortimer," sounds the thundering seas. "Mortimer," comes the crowds' insistent pleas. "Conehead's up, Mortimer's on deck, and Heavyfoot's in the hole." You arise refreshed and begin your stretching exercises. A few buildups on the grass return you to the peak of readiness. Conehead, the amazing French transfer student majoring in Galactic Hyperdrive Engineering, is passing the quarter in 91 seconds. You make your way back to the timing tables. 128.25 miles have been run and all but yourself have slipped beyond the six minute goal in the last leg. "3:02.5." The timer writes the split down on the Big Board. His replacement is just now ducking under the canopy. "Do you stand ready to be relieved, sir?" "Aye, sir, I so stand. Conditions are as: Conehead, number nine is on his third lap; no dropouts to date." "Very well. Nine on three, no drops. I relieve you, sir." "I stand relieved. Mr. Peabody has the Watch and Timer's Chair." Peabody slips into the warm seat while the former Watchman retreats to the showers after his exhausting three hour shift. "4:34.1." You step on the track, removing your sweats and lashing on your spikes. It is growing cooler in the gathering gloom of twilight's last gleaming. The sodium-vapor lamps across the field beggining to glow as you reach the passing zone after your explosive start. But the baton is falling behind you, so you check your stride until it is placed in your left hand. In an underhand motion and with a flick of your wrist, the baton is now tumbling precariously a good two yards in front of your nose. The fans gasp but you deftly snatch the baton from midair with your right hand. You are now cruising down the backstretch through the glare of the field lights. On the far turn you glimpse the two shapely Scripps girls and you realize that they were not part of your dream. Your are loose and moving smoothly as you fly by the timer's table in 89.0 seconds. There are active shouts of approval from the stands. You hear as if from a great distance an ethereal host raising the cry of brotherhood and singing the chorus of Beethoven's glorious Ninth. You are at one with the cosmos and you feel more alive and more lively than ever. KELROF.

DITCH I

THE 1921 BIG "T"

SENIOR DITCH DAY

On the twelfth of May, the Institute halls were woefully perturbed—solemn dignity had vanished.

Someone then found the following placard, which said much and proved a little.

KNOW YE:

That Whereas We, the Class of 1921, have labored long, faithfully, and true under the domination of a case-hardened faculty;

And That Whereas spring has come, and with it has come, also, a feeling of great unrest, a feeling of discontent, a feeling of perpetual lassitude and ennui which cannot be banished by classroom logic;

And That Whereas it is meet and proper for kindred souls so afflicted to gather together, so that by recreation and enjoyment of nature we may better withstand the rigorous requirements of the *ultimo mensis*, and so that by a decent association with one another we may form a group of men capable of withstanding the tempestuous winds of fate which seek to scatter us upon our commencement day;

And That Whereas the Lord when his work of creation was almost finished, rested upon the Seventh Day, thus

Be It Ordained and Decreed that this Twelfth Day of May, Nineteen Hundred and Twenty-one, be a *Day of Rest and the Senior Ditch Day* of the Class of 1921, and

Be It Further Ordained and Decreed that this Day be dedicated to the relaxation, amusement, and recreation of the Class of Nineteen Hundred and Twenty-one, in any manner in which is may decide;

And Further that this Day be passed on to the Senior Classes of years to come as a *tradition* to be kept, guarded, and cherished, faithfully and well.

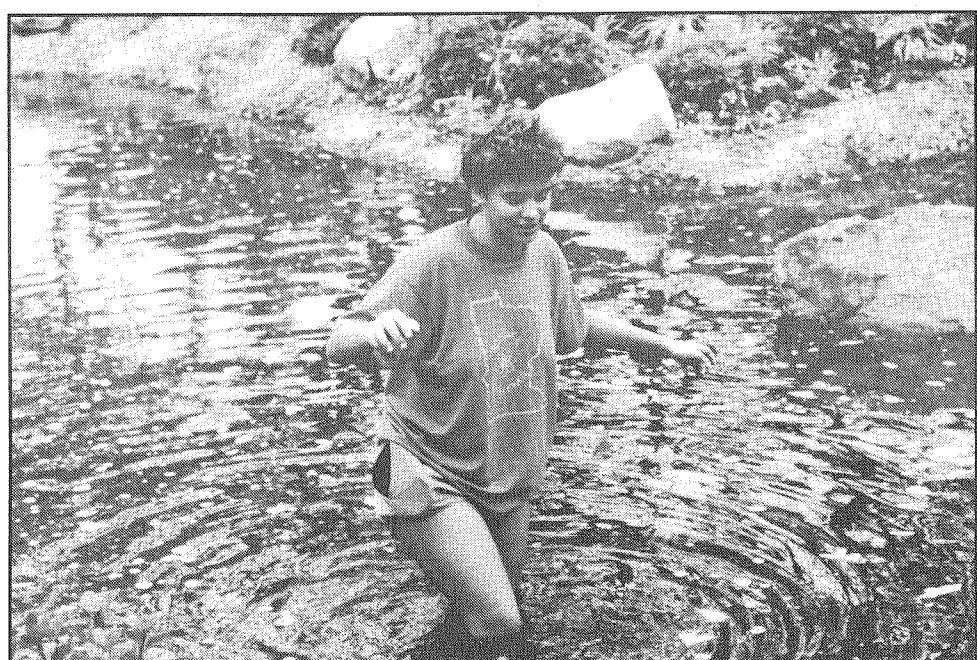
So Be It.

THE CLASS OF NINETEEN TWENTY-ONE.

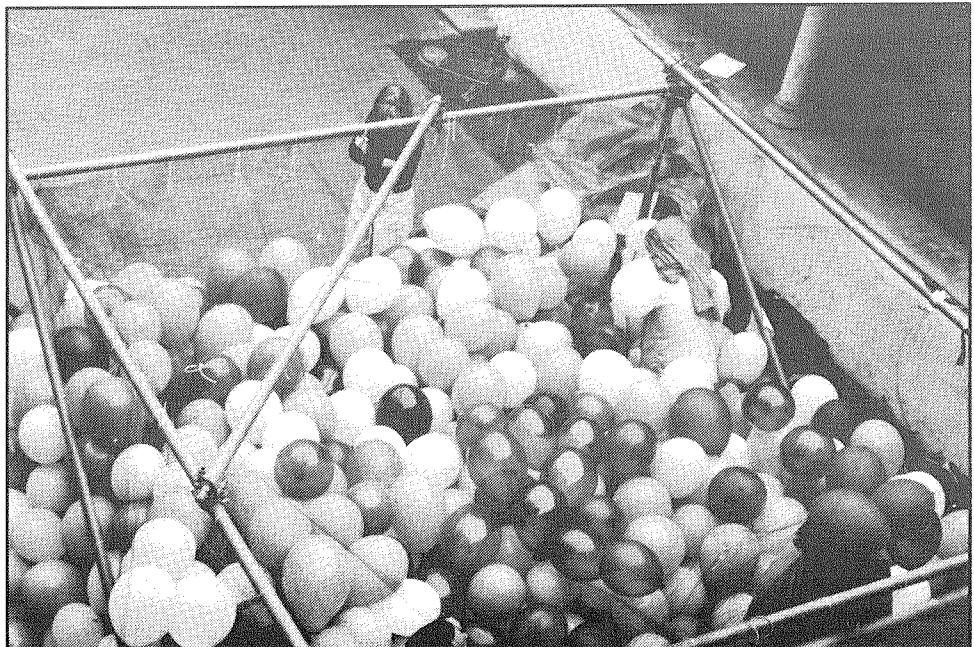
The next day—or was it that night—the wayward group returned.

Good authority claims they had visited the wicked “wilds” of Ocean Park.

Many were sunburned, others were tired, but the prevalent opinion claimed a more satisfactory “inspection trip” than any planned by the authorities—and as a tradition it will probably remain for a long time to come.



Liz Callaghan wades through Throop pond, avoiding the crayfish and finding clues.



Robert Johnson and Terry Moran camouflage themselves within the “Box o’ Balloons.”

DAY 1995



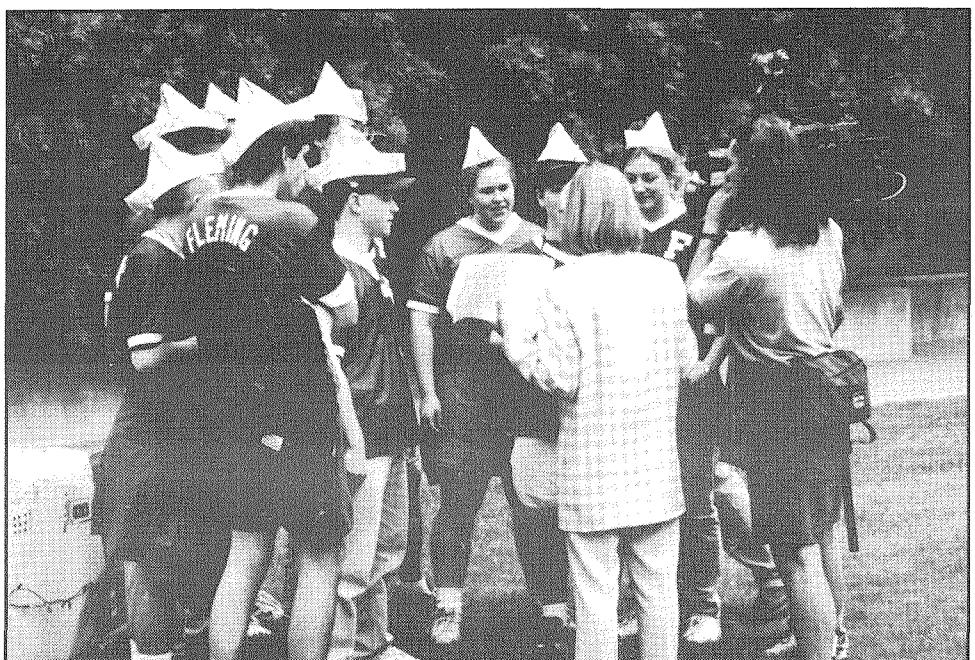
Jim Quallen, Sudipta Bardhan, Robert Johnson, Ying Tian, and John Grossman gorge themselves on the bribe of the Duckboot stack.



Rudds clad in Irish Green stride the Olive Walk in search of clues.



The wandering campus mail monks attack and capture a Diabatsu.



Some Flem's convince a FOX 11 reporter to help Get Rid Of Slimey girlS (GROSS).

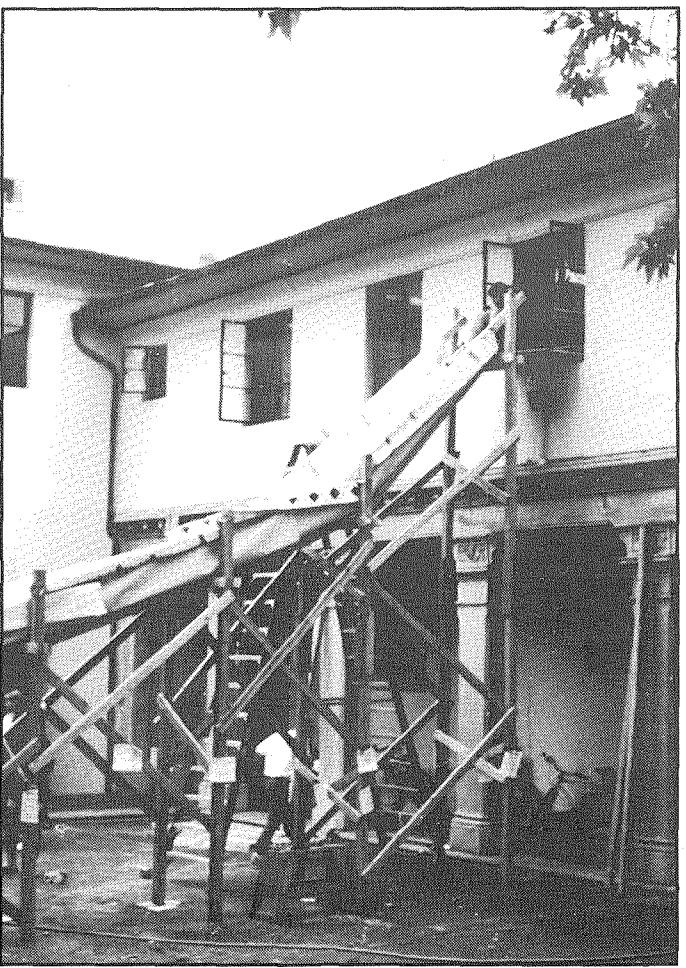


The MacGyver catapult car!

DITCH DAY 1995



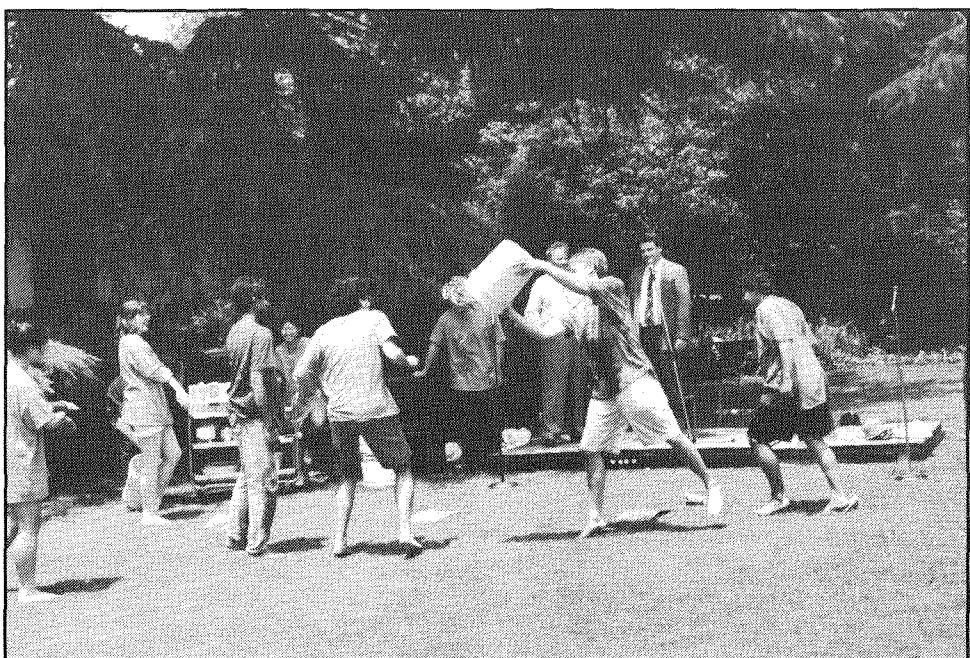
"That's the way we became the Brady Bunch!"



The Moles are known for their fine construction...you bet your life!



"I don't have a clue. Let's ask the little guy."



The Riddler Stack's version of Double Dare was very popular, and very wet.



"We don't need no education.... It's Ditch Day!"



The Fleming Canon belches the end of Ditch Day 1995.

Official ASCIT minutes of 5/10/95

Present: the BOD minus James plus Bob and Alex Lin

⇒ Meeting starts at 4:02. The BOD recognizes the Starburst on the table and eats it.

⇒ Bob from Ballroom Dancing requests \$150 for the Ballroom budget. Both Kanna and Melissa have been ballroom dancing. With whom, we don't know.

⇒ Alex Lin simultaneously proposes the CCSA, APSU, and Film Club budgets. What a guy. Alex requests \$1000 for CCSA, \$800 for APSU, and \$500 for the Film Club. The BOD recognizes a typo on the Film Club proposal (he MISSPELLED Alan McConchie's name! What a dork.) and realizes that Alex might secretly be trying to embezzle the \$2300 he has just requested. However, Alex presents his Caltech ID card and soothes the vicious BOD.

⇒ The Big T editors show up and take pictures of the BOD. Ken wears a blanket.

⇒ Apparently, a few years ago the BOD promised the Fencing team patches and patches of patches (\$400) and a \$600 banner because they won the NCAA Western Conference championship. Ken attempts to tell us stupid stories but we quiet him (snicker snicker). The BOD agrees (5-0-2) to reimburse the Fencing team for the patches

they've already bought (\$300).

⇒ Jon goes to the bathroom and Tom calls Gavin. I wrote down that Gavin reenters, but since I don't remember him entering the first time, this adds to the overwhelming proof that there are actually two Gavins.

⇒ A Gavin says that the Little T had a net loss of ~\$1500 last year. The BOD again discusses how we're going to pay Laurent and Jenny (and how we might acquire W-4 forms from Steve and Mike). The BOD decides that Kanna will tell Jenny that the editors have until the end of the school year to file W-4s or else they won't get paid.

⇒ Ken leaves. The boredom is so thick that you'd need a TV Knife (\$19.95) to cut it. Luckily, the Secretary owns a TV Knife.

⇒ Laura is getting rid of the old copier. The ASCIT van is okay. The Faceplant Club has agreed to take back their tire chains but sell us the retainers.

We discuss van liability. If someone were to take the van into Hollywood, run a red light, and smash into a tourist bus, there would be a liability suit (maybe several), and ASCIT might be sued. Ha ha. They think we have money. HA HA!

⇒ Adam Villani sits and listens to the BOD. Adam then asks us something about auspices. The BOD consults the dictionary, and Adam leaves.

⇒ Greg says that 90 people are going to the Formal. We tell Greg to advertise the ASCIT Formal.

⇒ Jon is taking his shoe apart with a sharp object. Why? He needs a new shoe.

⇒ Tom says the IHC discussed Avery House and decided that they only wanted to handle issues relating to the house system.

⇒ Tom, Jon, and Greg were the only BOD members present at the Avery groundbreaking. Dave forgot to go. He even RSVP'd.

⇒ Jon leaves, so I guess the meeting ended at this point.

Respectfully submitted,

David Ricci Relyea, ASCIT Secretary

From the ASCIT Treasurer:

We're finally done with all the club budgeting! The missing ones are:

Bike Club	\$150
NSBE	\$180
Newman Center	\$180
CCSA	\$420
Film Club	\$120
CAPISU	\$180
Ballroom dancing	\$120

A reminder to all club treasurers: you need to pick up funding for this term by *drop day*. There are a lot of clubs which have yet to pick up their third term funding. After the deadline, the money goes whoosh, down the toilet. All you have to do is email me (kannas@ugcs) (or come find me (Blacker 20)) with the following info: name of contact person, email address of contact person, where I should mail the check to, whom I should address the check to, and of course, the name of your club. The check will be sent out on Thursdays.

Multihouse money: House social teams, remember that you have to inform the BOD of your multihouse event which will require the money, before it actually happens.

Kanna Shimizu, ASCIT Treasurer

The MCAT is coming...

The UCLA Pre-Med Society & Kaplan are proud to sponsor a

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Speaker: Dr. Ken Marton

Location: Winnett Lounge/Cal Tech

Date/Time: Thursday, May 25
5:00 - 6:30 pm

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Dr. Marton will discuss:

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S & M

by Sharon and Marc

Things happen every day. Somewhere in the world wars are being fought, people are falling in love and celebrities are on trial for gruesome murders. Men and women go to work in the morning, come home in the evening, eat dinner in front of the T.V. and go to bed trying to figure out what the heck happened on "VR.5". Everything is normal. At times like this, we like to look at each other and say, "What are we going to write about?"

Well, since there's nothing column-worthy in the present, we have no alternative but to look into the future. The future, Sharon? That's right Marc! The future. All the way to the year ... 1999. (Legal disclaimer: Any similarities between this column and the "In the year 2000" skit that we stole from "Late Night with Conan O'Brien" is purely coincidental. Besides, imitation is the sincerest form of flattery, right? Right? Please don't sue us.)

In the year 1999, the sport of Unihoc will be bought by Intel, and renamed "Unium". They will then go on a litigation rampage, targeting everyone attempting to play indoor hockey sports with a different name.

In the year 1999, ordinary black ants will take over the world! Fortunately for almost all of humanity, the "world" of the ants does not extend beyond the confines of Marc's back yard.

In the year 1999, most people will still write "98" on their checks. With the exception, of course, of those who awoke from cryogenic freezing, and time travelers from the future.

In the year 1999, sociological scientists will discover conclusive evidence that the Trial Lawyers Association has formed an unholy alliance with Satan himself. They will immediately be sued for defamation of character and lose.

In the year 1999, the president of the United States will declare war on every country "with four letters and starting with the letter 'I'." The country of Iman will immediately change its name to Youman.

In the year 1999, the first major upgrade to Windows 95 will be released. Windows 99 (formerly Windows 97) will almost immediately be re-released as Windows 99.1, and then again as Windows 99.1a. Consumers will finally start to get a clue.

In the year 1999, there will be

a large earthquake in central California. A former professor from USC will be heard to say, "See? I told you so!"

In the year 1999, eighteen different people claiming to be the Unibomber will mail packages to the law offices of Dershowitz, Cochran and Belli. Meanwhile, the real Unibomber will have suffered a stroke at an early age, and spend the rest of his days blowing up pieces of fruit with firecrackers. He will become a good friend of "comedian" Gallagher, who is looking to expand his act.

In the year 1999, the artist formerly known as Prince will get tired of being called "the artist formerly known as Prince", and officially change his name to be "the entertainer formerly referred to as the artist formerly known as Prince". Most representatives of the press will immediately shorten it to "Jerkbrain".

In the year 1999, Americans will have over 450 cable channels to choose from. It will consequently be determined that Americans have the strongest thumbs, per capita, of any nation on earth.

In the year 1999, Ford Motor Company will ignore union protestations and replace all of its engineers with trained monkeys. Five years later Ford will become the number one automobile manufacturer worldwide. Regrettably, service at Ford dealerships will remain unchanged.

In the year 1999, minor skirmishes will break out between Swedish and Dutch herring fishermen. No one will guess at the time that this is a prelude to the "Great Herring War of '03", in which Finland will conquer all of Scandinavia and corner the herring market.

In the year 1999, the nadir of television broadcasting will be realized when the most popular choice of viewers becomes "The Static Channel".

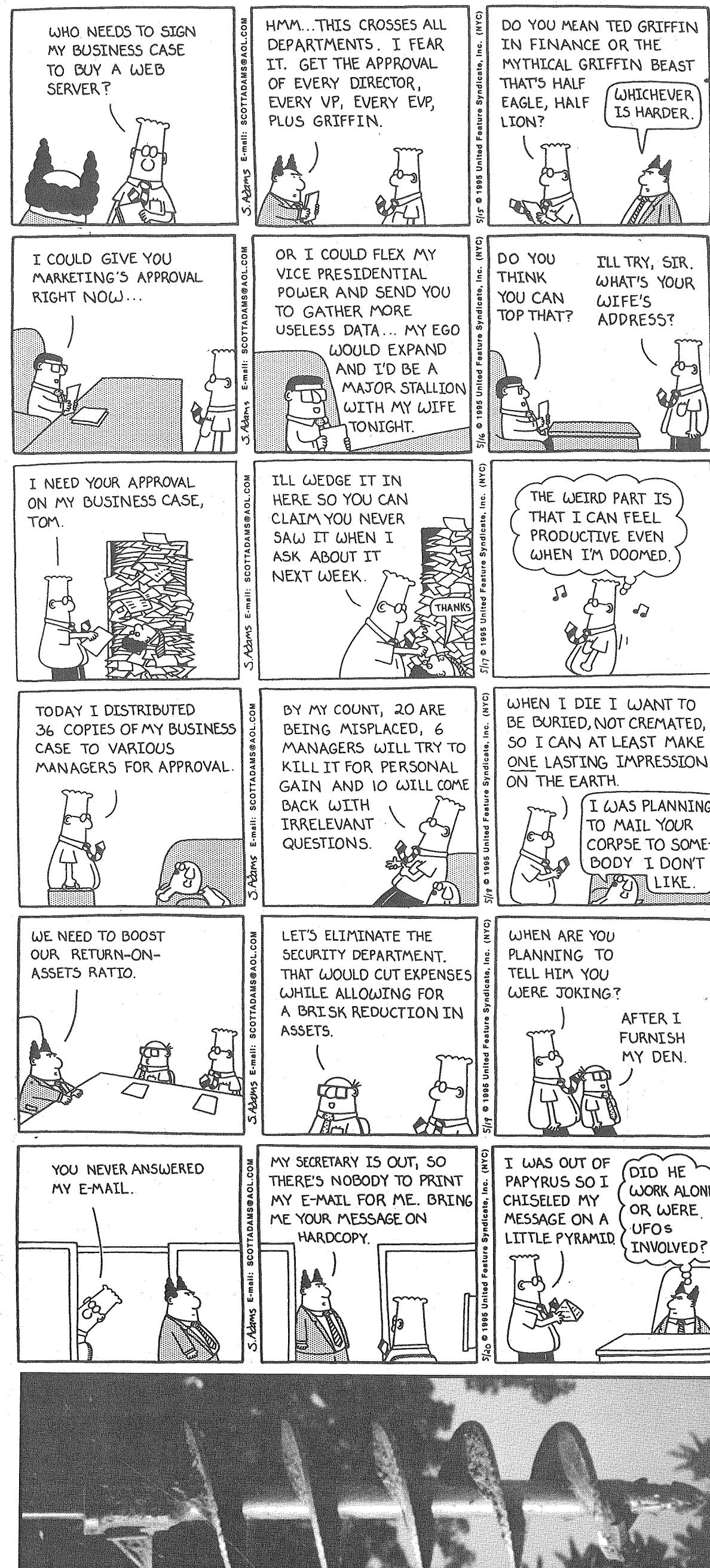
In the year 1999, Kevin Costner's career will irrevocably end after the dismal failures of "Gym of Dreams", "Dances with Some More Wolves" and "The Bodyguard III: Rupaul Must Die!"

In the year 1999, Sharon and Marc will be awarded their fourth Pulitzer prize. And the Nobel Prizes in Medicine and Physics. And they'll win the lottery.

Hey, it could happen!

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Notices

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The Engineering AS Division announces a new course: E2, "Engineering And Entrepreneurship"

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with instructor Dr. Simon Ramo, co-founder of TRW. The course intends to cover such subjects as the nature of practical engineering; entrepreneurship; financing a company; manufacturing; the role of government; the international economy; environment, safety, and liability; and large versus small companies. Discussion will center around a number of current issues,

such as electric vehicles, supersonic transports, the information superhighway, interactive television, genetic engineering, and others. The course will be given First Term, 1995/1996, on Tuesdays at 1 p.m. in Ramo Auditorium.

Caltech has publicly announced its right to create lots and lots of "noise, dust, vibration and utility inter-

ruptions as a result of construction of the Avery House at 293 S. Holliston Avenue, from now through August, 1996 from 6:30 a.m. to 5:00 p.m. daily." For further information and details, please call x4724.

The Caltech Muslim Student Association will hold Muslim Friday Prayers weekly in the Y lounge at 12:15 p.m.

"Take a Break and Spend Some Time with Friends." The office of the International Student Programs would like to invite you to our Open House for coffee, tea and conversation. Every Wednesday from 4:00 p.m. - 5:30 p.m. at the office of International Student Programs, Olive Walk. Open to the entire Caltech community.

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1.2GB IDE \$379	ActionLaser 1400 600 dpi \$669
LQ-570 \$255	LQ-570 \$255

Mother Board	
VESA 486DX2-66MHz w/o CPU	\$99
Pentium 60MHz 256K, w/Intel 60MHz CPU	\$465
Pentium 90MHz 256K, w/2 16550C Serial, 1 Enhanced Parallel, PCI Controller-Type III w/o CPU	\$239

Monitor	
MGC 14" 1024 .28 NI "GREEN" SVGA	\$225
MGC 15" 1280 .28 NI "GREEN" SVGA	\$295
ACER 14" 1024 .28 NI SVGA	\$245
ACER 15" .28 NI, LR, "GREEN", Digital	\$355
ACER 17" 1280 .27 NI, LR, "GREEN"	\$655
CTX 14" 1024 .28 NI SVGA	\$235
CTX 15" .28 NI, LR SVGA	\$295
CTX 17" .28 NI, LR SVGA	\$625
MAG 15" .28 NI, "GREEN" SVGA	\$370
MAG 17" 1280 .28 NI, "GREEN" SVGA	\$635
NEC 15" XV15 .28 NI SVGA	\$499

Fax/Modem	
14,400 (Internal) w/American Online	\$68
14,400 (External) w/BIT Com	\$95
14,400 PCMCIA w/Software	\$175
28,800 (Internal) w/Software	\$175

Mouse	
Microsoft serial mouse	\$39
Compatible 3 button mouse	\$15
Microsoft bus mouse	\$65
Compatible trackball	\$35

Multimedia	
2x CD-Rom & 16 Bit Sound Card	\$195
Teac 4x Multisession Photo CD-Rom	\$195
4x SCSI CD-Rom (w/o Controller)	\$315
Sound Blaster 16	\$95
Sound Blaster 16 SCSI	\$125
Sound Blaster AWE 32	\$285

Tape Backup	
Conner 420MB (Internal) w/Tape	\$195
Conner 850MB (Internal) w/Tape	\$299
Colorado 250MB (Internal)	\$155
Colorado 350MB (Internal)	\$195
Colorado 350MB (External)	\$350

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HP InkJet 320 \$295
HP DeskJet 540 \$279
HP InkJet 660C Color \$465
HP LaserJet 4L \$499
HP LaserJet 4P \$895
HP LaserJet 4+ \$1375
HP LaserJet 4M+ \$1895
HP LaserJet 4Si \$2785
HP LaserJet 4SiMX \$3995
HP ScanJet 3P \$475
HP ScanJet IIICX \$895

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Notices

See page 11.

From the Counseling Center

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.

The Counseling Center will not be holding a Session for the Cynical and Bitter. However, we at the Tech have decided to create a special 24 hour-a-day hotline for students suffering from either of these common problems; If you feel victimized to either of these states, *please* call x1543 before it is too late! (nitrous provided free!)

Coming Events

Brought to you by the Caltech Y, GSC, ASCIT, Student Affairs and the Alumni Association, Caltech's International Day will be held Today, May 19th, between 4 and 7 p.m. in the Winnett Quad.

There will be a Chamber Music at



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Announcements

• denotes a new announcement.

• Noon performance today, May 19th, followed by "Meet the 'poser," in Dabney Lounge. The composer, Ms Maria Newman, educated at the Eastman School of Music and Yale, will discuss her composition and take question from the audience following the performance of her work Ornitholites, followed by Haydn's Trio in G minor and Bridge's Miniatures.

• On Saturday, May 20th at 8 p.m., Kristina Olsen, noted recording artist, will be performing in Winnett Lounge as the closing concert of this season's Caltech Folk Music Society series. General admission is \$10, but tickets for Caltech students are only \$4. Tickets are available through the Caltech Ticket Office in advance.

• John Naisbitt, author of "Megatrends 2000" and the soon-to-be-released "Megatrends Asia," will speak at 7:00 p.m. on Thursday, May 25th, at the San Gabriel Civic Auditorium, 320 S. Mission Dr., San Gabriel. The campus office of Government Relations & Community Affairs has 12 free tickets for Caltech students interested in attending Naisbitt's speech. For more information of tickets, call Patti or Hall at extension 6256 to get a ticket.

• The Asian American theatrical troupe Here and Now will be performing in a multimedia production of stories, drama, song and dance relating to the experiences of Asian Americans on Saturday, May 27th, at 7:00 p.m. in Baxter Lecture Hall. Choreographed to entertain a diverse audience, the 11 member cast alternately perform in a series of segments that address the state of Asians in today's world. A reception will follow the performance; admission is free. For more information, please contact Alex at alexlin@cco.caltech.edu, or at phone extension x1422.

Talks, Lectures, and Seminars

Yehuda Elkana, visiting professor from Tel Aviv University, will be giving a Science, Ethics, and Public Policy Seminar entitled "Unrelenting

Progress? Rethinking—Not Unthinking—The Enlightenment" on Thursday, May 25th, in the Judy Library.

• Dr. Thomas Everhart will be giving a seminar entitled "Political and Economic Uncertainty: A Challenge to Management" for the Caltech Management Association on Tuesday, May 23rd, in the Athenaeum. This dinner seminar will start with cocktails will be served at 6 p.m., followed by a cornish game hen dinner at 6:45 p.m.; the presentation will begin at 8 p.m. All wishing to attend must RSVP by Tuesday, May 16th, to Ann Bussone at Caltech MSC 111-6; the dinner will cost \$38.00 for non members.

Club Announcements

• The final movie to screen in the German Film Series for this term is *Lilli Marleen* (1981), showing in Baxter Hall next Thursday, May 25th, at 7:30 p.m. This film features English subtitles and is presented free of charge. For more information, please call x3610.

The Caltech Ballroom Dance Club Friday beginning and intermediate SALSA classes begin this Friday, May 12th, in Winnett Lounge. Intermediate class is from 7 to 8:20 p.m., and beginning class is from 8:30 to 9:45 p.m. Taught by professional instructor Enio Cordoba, no experience needed for beginning class though six months prior dance experience is recommended for the intermediate class. No partner is required. There will be 3 more classes — May 26, June 2, and June 9. Registration is \$12 for Caltech students, employees, or JPLers, and \$24 otherwise (couples will be charged \$24 if one of the two is from Caltech or JPL). Come to the first class, even if you haven't yet registered! For more information, contact Bob Herman at rherman@arms.gps.caltech.edu, or at 393-4720.

The Caltech Ballroom Dance Club offers free beginning classes to all. Classes are Wednesdays at 7:00 p.m. in Winnett Lounge. People are welcome to join the classes any time; no experience is required. Come with or



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without a partner. This week the club will hopefully be learning the cha-cha, and will do other dances in the future. For more information, contact Bob Herman at rherman@arms.gps.caltech.edu or at 393-4720.

Internships and Competitions

The Harry S. Truman Scholarship Foundation, established by Congress in 1975, is the official federal memorial to honor our thirty-third President. The Foundation awards \$30,000 merit-based scholarships to junior-level college students who wish to attend graduate school in preparation for careers in government or elsewhere in public service. Scholars may attend graduate schools in the United States or in foreign countries. In 1996, up to 85 students will be awarded Truman Scholarships. They will receive leadership training, graduate school counseling, preferential admission and merit-based aid to some premier graduate institutions, and internship opportunities with federal agencies. Scholars are eligible to receive \$3,000 for the senior year of undergraduate education and \$27,000 for graduate studies. The Foundation defines public service as employment in government at any level, including uniformed services, public interest organizations, nongovernmental research and/or educational organizations, and public service oriented nonprofit organizations such as those whose primary purposes are to help needy or disadvantaged persons or to protect resources. The eligibility requirements are a full-time junior-level student at a four-year institution, committed to a career in public service as defined above, and in the upper quarter of his or her class, and a U.S. citizen. If interested, please contact the Dean of Students Office at 102 Parsons-Gates. The deadline is late November 1995.

The Mathematics Department is pleased to announce two categories of prizes offered to Caltech undergraduates: the E.T. Bell Undergraduate Mathematics Research prize of \$500 to a junior or senior for the best original mathematics paper, and The Morgan Ward Competition for freshmen and/or sophomores. \$75 will be awarded for the two to four best entries of a mathematical problem with a solution or significant contribution toward a solution. Complete details will be mailed and are also available in the mathematics department at 253 Sloan.

Fellowships and Scholarships

The Financial Aid Office has applications and/or information on the following and additional scholarships. All qualified students are encouraged to apply. The Financial Aid

Office is located at 515 S. Wilson, second floor.

• Information and applications for 1995 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 1st, 1995. Your entire financial aid application must be complete by June 1st to be considered. If awarded, the work-study funding will begin with the July 3rd payroll period.

• Attention Financial Aid Recipients: To ensure that we have sufficient funds to meet your full need for this academic year, we have established a deadline to adjust your Caltech financial aid for 1994-95. If you wish to: (1) Request a Federal Direct Stafford or PLUS Loan or (2) Request any other type of adjustment to your 1994-95 award, we strongly encourage you to request a revision by May 1st at 5:00 p.m. All requests should be made in writing and submitted to the Financial Aid Office (MSC 12-63) by this date. Please contact the Financial Aid Office before May 1 if you have any questions.

• A workshop for students interested in learning more about the Watson Fellowships will be held in Club Room #1 on Wednesday, May 24th from noon to 1 p.m.. A light lunch will be available. The Watson is a prestigious fellowship which supports a year of travel to pursue a student designed project outside of North America after the senior year in college. Aimee Smith, Watson Fellow from 1993, will be present to talk about her experiences and Zack Berger, this year's winner, and Barbara Green, campus coordinator of this fellowship, will talk about the application process.

The John Gyles Education Fund is again this year offering financial assistance to students in the United States. Canadian or American citizenship is a requirement. Awards are available for all areas of post-secondary study. A minimum GPA of 2.7 is required. Criteria other than strictly academic ability and financial need are considered in the selection process. Selected students will receive up to \$2,500. Deadlines for 1995 are June 15th, and November 30th. Applications must be mailed by those dates. Students may receive applications by sending their request, along with a self-addressed, stamped (US 32 cent) No. 10 envelope to: The John Gyles Education Fund, Attention: R. James Cougle, Administrator, P.O. Box 4808, 712 Riverside Dr., Fredericton, New Brunswick, Canada E3B 5G4.

The Coalition of Higher Education Assistance Organizations announces three \$1,000 scholarships and six \$100 scholarships available to students at Caltech. To receive an application, you must come to the Financial Aid Office to pick up a COHEAO postcard. The postcard must be submitted by April 1, 1995. The complete application is due to COHEAO on June 1, 1995.

The California TECH

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Pasadena, California, 91125