



Five Distinguished Alumni Award Winners Announced

from Caltech Public Relations

PASADENA—Five Caltech graduates will be presented with the Institutes highest honor, the Distinguished Alumni Award, at the Alumni Associations 58th Annual Seminar Day on May 13. This years award recipients are Gordon P. Eaton MS '53, PhD '57; Jerry Earl Nelson '65; Arati Prabhakar MS '80, PhD '85; Charles R. Trimble '63, MS '64; and Max L. Williams, Jr., MS '47, Eng '48, PhD '50.

Gordon P. Eaton is a highly distinguished earth scientist and the 12th director of the U.S. Geological Survey. After graduating from Caltech he taught at Wesleyan University and UC Riverside and then, starting in 1967, held a variety of positions with the USGS. He returned to academia in 1981 with his appointment as dean of the College of Geosciences at Texas A&M. He became provost and vice president for academic affairs in 1983. In 1986 he moved to Iowa State University, where he served as president, and then, in 1990, he joined the Lamont-Doherty Earth Observatory of Columbia University in Palisades, New York, serving as director until March 1994, when he was appointed to the USGS directorship.

Eaton, a member of the American Association for the Advancement of Science, the Geological Society of America, and the American Geophysical Union, is

listed in Who's Who in America, Who's Who in the Midwest, Who's Who in the World, Who's Who in Science & Engineering, and American Men and Women of Science. He was a member of the National Research Council committee on the formation of the National Biological Survey and has served on the councils Board of Earth Sciences and Resources and the Ocean Studies Board.

Jerry Earl Nelson is currently project scientist for the W. M. Keck Observatory which includes two Keck Telescopes and is particularly involved in the design of an adaptive optics system that will use both stars and sodium-laser beacons to measure and compensate for atmospheric aberrations, improving the quality of the telescopes images by up to 50 times. He has been centrally involved since 1977 in the design and construction of the 10-meter Keck Telescope, demonstrated the viability of its basic design and was chair of the committee responsible for developing that design.

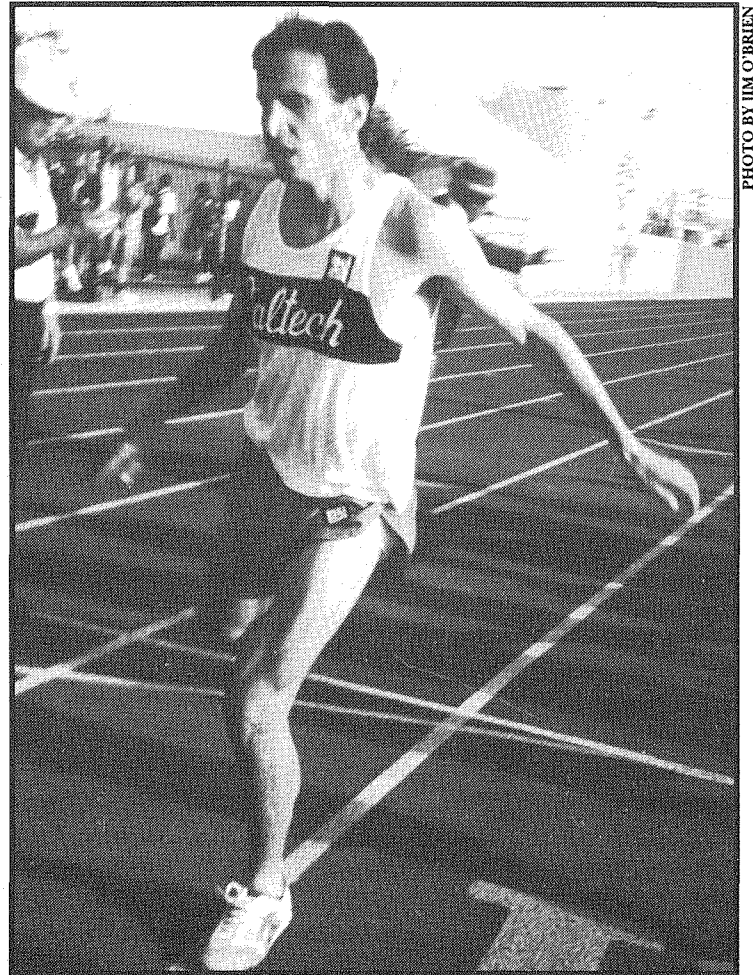
Nelson received his PhD in experimental particle physics from UC Berkeley in 1972. While a graduate student, however, he undertook a study of optical pulsation's from the Crab Pulsar. This led him to his major research interest, the study of short-time-scale phenomena associated with X-ray binary and cataclysmic variable stars, as well as his decision to pursue astrophysics. Besides

being project scientist for the Keck Observatory, Nelson is professor of astronomy and astrophysics at UC Santa Cruz. His work has produced hundreds of articles and papers, and he is a member of the American Astronomical Society, the Astronomical Society of the Pacific, the International Astronomical Union, the Optical Society of America, the Royal Astronomical Society, and the Society of Photo-Optical Instrumentation Engineers.

Arati Prabhakar, appointed the 10th director of the National Institute of Standards and Technology in spring 1993, oversees a portfolio of programs that, in partnership with industry, pursues new technologies for economic growth. She also chairs the Committee on Applications and Technology of the Information Infrastructure Task Force, which is studying how innovative technologies will help people do their jobs in new and different ways, and coordinates government-wide efforts to develop information-technology applications and to recommend technology policy.

Previously, she had created and then served for two years as director of the Microelectronics Technology Office in the Defense Departments Advanced Research Projects Agency, where she had been managing advanced electronics research since 1986. From

SEE "ALUMNI" PAGE 5



Trackster Dan Kleiman powers in to win the steeplechase title at the SCIAAC Conference Championship Meet. See story on page 3.

PHOTO BY JIM O'BRIEN

Bands' Saturday Concert Features Tech Composers

From Caltech Public Relations

PASADENA—Caltech's 16th Annual Bandorama concert is scheduled to take place on Saturday, May 13 at 8 p.m. in Caltech's Beckman Auditorium. It is free and open to the public. The concert will feature the Caltech Jazz and Concert Bands, accompanied by singer Angie Whitney as guest soloist. The concert is being held in conjunction with the alumni weekend festivities.

"I think this concert is especially important to those in the Caltech community as there is so much Caltech related music," says Bill Bing, band director.

Under the direction of Bing, the Caltech Jazz Bands and the Caltech Concert Band will perform a variety of songs in honor

of Alumni weekend. There will be music composed by Caltech graduate Les Deutsch, who has written a piece in four movements that musically depicts the life of the undergraduate at Caltech. Graduate student Paul Asimov has written a special arrangement of music by Charles Ives. There will also be a medley of Caltech songs. Finally, Pasadena singer Angie Whitney will sing with the jazz bands.

On Sunday at 7 p.m. in Dabney Lounge, chamber music students will present a concert of Bachs: J.S. Bach, his youngest son, and PDQ Bach's "discoverer," Peter Schickele. Also included on the program is a little bit of Beethoven and a rarely heard quartet by composer Gustav Mahler.

The Tech Wants YOU!

Can you write? Do you enjoy interviewing professors and other important members of the Caltech community? Do you have a great idea for a weekly or biweekly feature column? Do you want to help reduce entropy in the SAC? Well, you can do these things. You can work for *The Tech*. Even if you only have an idea for improving the existing *Tech*, come on down to the Coffeehouse at 12:15 on Fridays and let us have your input!

Crayola Offers Coloring Opportunity for Adults

from Crayola Products

EASTON, PA—How would you spend \$25,000 in silver and gold? Would you put it toward tuition? Buy a new car? Pay off your student loan? Or maybe take all of your friends on an all-expense paid spring break trip? Well, stop dreaming and start coloring because the Crayola Big Kid Classic is here!

After more than nine decades of playing to the creative passions of youngsters, the maker of Crayola products is going after grown-ups, enticing them with a \$25,000 offer to act like a kid again.

The offer comes in the form of Crayola's first adult coloring event, the Crayola Big Kid Classic. However, the company is not walking away from kids entirely. In fact, they have elevated kids to positions of power as judges for the contest.

"Entering the Crayola Big Kid Classic is a great way for college students to destress and put aside worries about course work, deadlines, and finals to recapture all the fun and color of their childhood," said Tracey Moran,

Crayola spokesperson. "The even is fun, the prizes have universal appeal, and students get to act childish again. What more could you ask for in an event?"

With rewards that are anything but sophomoric, entries are expected to be plentiful. Grand prize is \$25,000 in silver and gold. First prize is a colorful trip of a lifetime for two, including stops at the white cliffs of Dover, Germany's Black Forest, the Bordeaux region of France, and Spain's silver shores. Three second prize winners will receive dinner for two at the Rainbow Room in New York City with overnight accommodations. Ten third prize winners will receive Crayola Big Kid Loot Bags valued at more than \$100.

To participate, creations reflecting entrants' most memorable childhood moment made with crayons, markers, paints, colored pencils, or modeling compounds should be sent by September 15 with a business-sized, self-addressed stamped envelope to: Crayola Big Kid

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The Usual Stuff

Dilbert fights the internet traffic jam!

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Letters to the Editor

Avery House

Zack Berger is shooting from the hip at Avery House and missing the target. The problem at Caltech has been the segregation of undergrads, grads, post-docs, and faculty members. Some of this separation reflects the different interests and experience levels of these groups. It also reflects the fast pace for all; certainly for students but also for post-docs and junior faculty members who, in addition to creativity, must spend an inordinate amount of time looking for the next job or for the next research grant, re-

spectively. If Avery House manages to break the cycle and to let the various groups commingle, it will have served its purpose. It would also pay to remember that persons who excel in any field are certainly of intellectual note.

D. A. Papanastassiou, '65
GPS, ext. x6179

Feline Friends

I recently read through the 5 May issue of the California Tech and must express my disgust at the "save a cat" ad appearing on page 7. This is in the poorest taste. Cruelty to animals is

not a joke and should not be treated as such by members of the press. I sincerely hope you can come up with more responsible methods for increasing your staff in the future.

Dr. Amy Springer
Research Fellow EES

Amy:
No cats were harmed in the creation of our ad. In fact, if we are to be criticized for anything, it should be our lack of creativity. The same ad appeared in the September 23, 1982 issue of The California Tech. We apologize if we offended anyone.
—Editors

Editors' Corner

From your Friendly Tech Editors

Hmmm.... Three wire-service articles on the front page. Nearly zero submissions from the undergrads. Could it be...midterms week?

Speaking of midterms week, if you couldn't get enough free pizza from TFM on Tuesday night, and you're still hungry, mosey on down to the Coffeehouse today at 12:15 for some free Chinese food and good conversation. We'll be discussing our next issue, and we want *you're* help. Newswriters, featurewriters, photographers, layout artists: we need you! Additionally, we *really* need another layout editor and someone to clean up the office every week; if you're interested in earning some extra money, come to the Coffeehouse and work for *The Tech!*

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!

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12:15, Fridays, Coffeehouse

Please send submissions for letters to the editor by electronic mail to editors@tech.caltech.edu or to
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Caltech 40-58
Pasadena, CA 91125

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.

Crossword

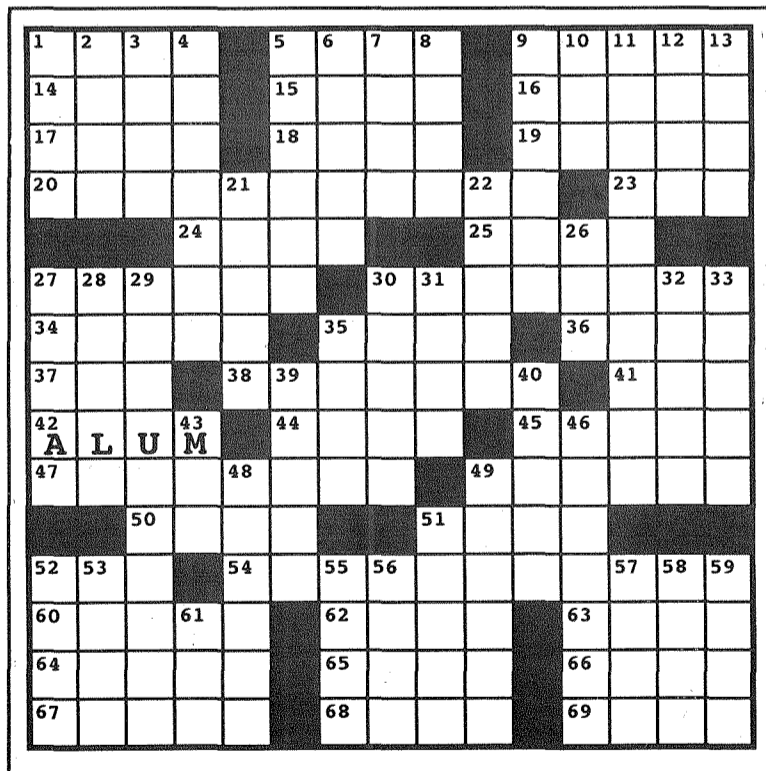
edited by Wei-Hwa Huang

Across

1. Back friends?
5. Health spots
9. Old weapon
14. Mall smoke?
15. Before alto?
16. Unilateral command
17. Kett the Komedian
18. Scrams
19. Pre-input
20. Barnyard oops
23. Sterling
24. Nose location
25. Another man's Persian?
27. Mortar wound?
30. Surprises
34. Microsoft spreadsheet
35. Yak
36. Doolittle author
37. Uncle of Zapata
38. Queen or violet
41. Ere eary
42. Ex-students, for short
44. Complain
47. "I ___ Go Out of My Heart"
49. Squish
50. Vichy very
51. JPL affiliate
52. Computer iteration
54. Illinois oops
60. Wear
62. Move slowly
63. Lazy Python?
64. Oral
65. Broken leg, e.g.
66. Gorgon's cheese?
67. Home of the brave?
68. Geraint companion
69. Times

Down

1. Req.
2. Plaster support
3. Meter leader



4. Quell
5. Globule
6. Hurts
7. Smart guy
8. Somewhat
9. Last but not fast?
10. Aliased
11. Keg oops
12. Exxon predecessor
13. Mr. Fantastic
21. "To_a Mockingbird"
22. Birthplace of X
26. Sot's shakes
27. Flower part
28. Ostracization
29. Oops, not prepared
30. Shot dower
31. Handling
32. "Jack Sprat could ___ fat"
33. Faint
35. Wheat cover
39. Initiation target
40. "Untrue!"
43. Disfigure
46. Understand
48. Abscond
49. Drooped
51. What about her?
52. Marvel
53. Heraldic band
55. Wight or man
56. Cave bear, e.g.
57. Aroma
58. Jar
59. Pod pals
61. Expected



Meow

COURTESY MIKE DEBAR

We really do like cats. Isn't it cute?

ASCIT Formal

Greg Steiert requests that people who didn't sign up to go to the Formal but still want to go (IE faculty, students) should send him (MSC 975, Page 209) a check by Monday the 15th with their name, the name of the person they're going with, their address, whether or not they're on board, and if either they or their date is a vegetarian. People who signed up should get a check to Greg by Friday the 19th. Also, Laura Munoz would like to kindly remind people that she put copier account request forms by the copier, so if you want an account, fill out the form and put it in the ASCIT box.

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SPORTS

KELROF '95: The Heat is On!

by Tom Dmukauskas

No doubt that all three of you that read my article last week are raring to go for the big event which now lies a mere 15 days away. But, just in case that masterpiece didn't inspire you to get off the couch and on to the track, I'm back to give you the latest scoops off of the KELROF gossip line.

There's been some rumblings among the distance runners on the track team to try to challenge the 6-minute mile barrier. That would pencil out to 240 miles in the 24 hours which would be very close to a mileage record for an all undergraduate team. To have a good shot at such a distance, the young men might have to utilize the resources of a couple of cross country refugees, like Francisco Gutierrez and Mike Davies. Nonetheless, I believe that this will be a team that will go quite a bit further than 200 miles.

When Alex Caro bumped into Schuyler and I and we got on the subject of KELROF, he seemed amazingly interested in getting a soccer KELROF team together. I have not heard of any news from him since then, but Rob Chapman is definitely hip to the idea. 3 years ago, Charles Sharman spent his KELROF dribbling around the track in sub 7-minute miles. Have three years been enough to dull the pain to get him back out there? Are there any other intercollegiate sports teams out there stupid enough, I mean, with the guts enough to take on this beast called KELROF? What about house teams? How about an all-female team? Think about it.

Ginger Garcia, a KELROF star two years ago, in the spirit of lazy seniors everywhere, wants to do KELROF but not take it too seriously. Her solution: make a drinking team, one shot after every mile. Usually, simply running KELROF can provide one

with endless hours of hallucination and lost inhibition. Ginger's team will take this existence to a higher plane.

Not just current Techers are getting bitten by the KELROF craze though. Last weekend, a Caltech graduate got in touch with Chris Cary about fielding two teams, a 10-man and a 5-man, of alums in this year's edition. Of course they will be allowed to run, especially since it gives us an excuse to hit up the Alumni for some funding. As of this writing, \$600 are in the KELROF coffers, \$500 from ASCIT and \$100 from the Dean. A minimum of \$750 dollars will be needed to offset our expenses, so any funding resources are welcome to have pity on us!

We will hopefully have a few team signup sheets posted in each of the undergraduate houses over the weekend. Don't be afraid of people from other houses, you can run with them too!

Feynman Wins in Tennis, 6-0, 6-0

by Ronak Bhatt and Jason Jenkins

We know that it has been a long time since you've seen an article about the men's tennis team here at Caltech, but here we go, one last hurrah. No, we don't have anything to say about

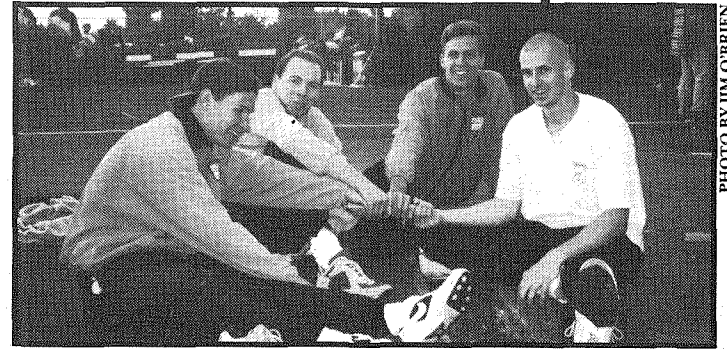
Feynman, but boy howdy was it a good tennis season.

To wrap up the end of the season, Caltech defeated La Verne, despite the presence of the powerful force known simply as Sergio, and lost a tight match to Whittier to finish the regular season in seventh place in the

toughest Division III conference in the nation. Fortunately for the men's team and all our loyal fans, the season was not over. Caltech qualified for the post-season tournament.

At the SCIAC championships held at Pomona-Pitzer on

Track Beavers Explode



Bergeron, Greenberg, Stieger, and Reed get set to race at the SCIAC Conference meet.

by Jim O'Brien

The men's and women's track teams turned in their best performances when it mattered most, at the SCIAC Conference Championship Meet. The men were led by freshman Dan Kleiman who decimated the field during his victory in the 3000-meter steeplechase. In that race, Kleiman led after the first 200-meters and never looked back on his way to an 8 second cushion by the finish.

His time of 9:34 is the second best performance of the year for him and his #1 time of 9:29 places him 17th in all of California and Nevada among collegiate athletes (2nd of Division III competitors). Kleiman also placed 3rd in the 5000-meters, running with the lead pack of 8 for most of the race until he took charge by pushing the pace and spreading the field. With 16 points of the

SEE "TRACK" PAGE 10

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the 16th annual

Bandorama

featuring the
Caltech Jazz Bands
and the
Caltech Concert Band
directed by William Bing
featuring the music of Les Deutsch
and a special musical arrangement
by
Paul Asimow

with
guest artist
Angie Whitney, vocalist

Saturday, May 13
8:00 PM

Beckman Auditorium, Caltech

free concert

for further information about this
please call (818) 395-4652

IHC Minutes 5/9/95

Present: the IHC (minus Alison), Jeanne Wilson (Bl veep)

- ⇒ A strange predilection for begin silly has entered the room, it will continue to plague members of the IHC separately and in groups from time to time during the meeting. Ricketts house thinks piñatas should implode.
- ⇒ Public part of the meeting begins about 11:05 p.m.
- ⇒ The new housing contract is reviewed, there are a few phrases that Brian and others think should be rephrased or removed. Tom has these changes and will speak to housing.
- ⇒ Today's groundbreaking for Avery house gave those who attended a clearer picture of Gary Lorden's dream and the speeches featured opened to project more to the community.
- ⇒ Brian attempts to multi-task, Adil recounts his impressions of the ceremony, and at about 11:30 the meeting dissolves into childish behavior while we try to contact Alison.
- ⇒ Art asks about an IHC retreat to CAPRA.
- ⇒ More housing contract stuff, house presidents should make known to their houses that religious exceptions for a short period of time are a valid excuse for being off board for things such as Ramadan and Passover.
- ⇒ Art and Vogel go off to play Jurassic Park, Tom calls Alison, Brian tries to check his email, Nestor, Adil, and Laura play ding-dong baseball in the hallway.
- ⇒ Adil and Nestor go get a Blacker veep, Jeanne, and the meeting reconvenes
- ⇒ Meeting dissolves into laughter for an unknown reason, weird noises emanate from the hallway.
- ⇒ Tom discusses the concerns we have with Avery again.

Frosh—we want Avery to be open to freshmen no earlier than third term as is true with all off-campus housing.

- ⇒ Relations with houses—We want a non-voting interim rep from Avery to sit on IHC, the position will be revised once Avery takes on its own character and place among the houses. We would like interim constitution made up which the only house office is the social team, dues are optional if you wish to attend the social events, and institute funds possible for the interim until the house creates its own society.
- ⇒ Apportioned spaces—These should go in an off-campus lottery held separately from the general lottery.
- ⇒ RA's ideas of a more UCC like structure were kicked around, faculty members serving, unclear position.
- ⇒ Art claims to have made love to the Blarney stone
- ⇒ Faculty student committee interviews continue with Thursdays interviews of Grievance, Advisory, Upperclass admissions, and Food chair committees. Wednesday and Thursday the 17th and 18th at 10 p.m. are the Freshman Admissions interviews. The 24th and 25th are Curriculum and Academic policies and then Scholarships and Financial Aid and UASH.
- ⇒ Ricketts forgot to challenge Fleming in Disco, Dabney challenges next week
- ⇒ Fleming beat Lloyd 3-1 in softball this past weekend
- ⇒ Vogel asks what happened to Crisco, Adil "Crisco Boy" Karim replies that there is plenty of Crisco in Ruddock. Uh, huh.
- ⇒ Meeting finally dissolves entirely at 12:23 a.m. Deferentially submitted Laura Brady, IHC Secretary

S & M

by Sharon & Marc

Ah, spring! The time of year when a young man's fancy turns to food. Food? Of course! He's a growing boy, after all. So what's on the menu? It all depends on where he's from. If he's a red-blooded American he'll be eating a burger and fries, with a slice of Mom's apple pie for dessert. But what if, somehow, he's from another country? Like Europe? We're glad you asked! Even though, technically speaking, Europe is not a country. Sheesh! Who taught you geography anyway, Forrest Gump?

The countries of Europe are many and varied, as are their diets. The substance of these diets is often thought of by Americans as "disgusting" and "vile". But one of the guiding principles of "S&M" is to promote global enlightenment and the acceptance of cultural diversity (with the exception of the Japanese, of course). Henceforth, the strange and alien foodstuffs of other countries will not be referred to using any word stronger than "weird" (close calls to be decided utilizing the NIST Dictionary of Adjective Intensity). For further information on the following examples, and many others, you can consult the same comprehensive reference guide that we used, "The Encyclopedia of Gross Stuff Foreigners Actually Eat".

One of our favorite countries is France. Not only is the country rife with history and beauty, but the people can be mocked with almost no effort whatsoever. And their gardens must be beautiful, because the French eat snails. Isn't that weird? But not as bad as the Swedish, who have made an art form out of ingesting a small fish known as herring. It's so popular there that fortunes are made and lost on a daily basis in the herring commodities market (Sssh! Don't tell Hillary Clinton!). The German people, tough as nails and just as emotional (huh?), have a little something they call Der Terrasheisse, loosely trans-

lated as "Boiled Rock". The Dutch, always one to know a good thing when they see it, are also herring-mongers. In Spain, they have a peculiar delicacy known as "Spanish Fly". It's little wonder that Spain is known as the "Country of Love". In Norway, the food of choice is ... you guessed it! Herring. Denmark? Herring. Holland? Herring. Finland? Zimbabwe? The Netherlands? Herring. Wait a minute. Did we say Zimbabwe? Yes, we did. But isn't that country land-locked, as well as being in the middle of Africa? Good point. Unfortunately, we don't think you're in any position to lecture us on geography after that whole "Europe is a country" incident.

But to move slightly off the continent, we would like to take a look at jolly ol' England. The British are a fine people, and we Americans (primarily the white, Protestant ones) have a lot in common with them. But culinary speaking, and without taking a stand one way or the other as to whether "culinary" is even a word, the food of the British could not be more alien to our culture, perhaps even repellent. England, you see, is the home of the vilest snack food on the face of the Earth. Twiglets.

Twiglets! Even the very name is like a thousand taloned hands slowly raking their nails down the lengths of grammar school chalkboards, ruining arithmetic equations and destroying sentence diagrams. For the remainder of this column, the full power of S&M Incorporated will be focused on searing away the layers of obfuscation and mystery which surround this blighted "food", until only the truth shall stand revealed!

The history of Twiglets has been a mystery, but thanks to the tireless efforts of the researchers at S&M Labs, we have traced the origin to the eighth century. It was the height of the industry of alchemy, which, if you think about it, was really a pretty low point in the field of scientific research. "Wow, if we could only figure out some way to turn ordinary stuff into gold, we could be rich!" "Um, but if we made a bunch of gold, wouldn't that lower the price until it was almost worthless? You know, supply and demand?" "Huh?" "Oh, nothing. Let's get to work." A certain fellow, and not one of the brighter men in his field we might add, decided to become the first organic alchemist, and used food. Although his research was an abysmal failure, he sustained himself with several very successful cookbooks. That is, until he was blown to kingdom come. To this day, no one knows how it happened, but the explosion was followed by a thick, noxious vapor which killed all the livestock in the village, and destroyed all the crops. Days later, once the fumes finally cleared, the villagers gathered around a deep crater where the lab had been. No trace of the alchemist, his notes or equipment could be found. But in the very center of the crater, glowing in the light of dawn, was

the first Twiglit.

Over the centuries, thousands of brave men tried to eat the Twiglit, for it was rumored that he who ingested it would be imbued with godlike powers. And after all, it looked pretty harmless, like a pretzel stick without salt. But no one could bear even the slightest taste, and by the fourteenth century the Twiglit was lost. It resurfaced five hundred years later, where it was mistaken for a particularly odious dinosaur fossil, crated up and promptly forgotten. But the Twiglit was to play a role in the second world war, when a desperate British scientist attempted to tap into its power to turn the tide of the conflict. His efforts were fruitless, but it was determined that a weaker version of the Twiglit (without any power but virtually inedible) could actually be manufactured, and a plan was set in motion to drop millions of them behind enemy lines, where they could destroy German morale. Alas, the war ended before the airlift, and the British were stuck with warehouses filled with Twiglets. They were also stuck with a war-scarred country that had little to eat. A decision was regretfully made, and the stoic men and women of England forced themselves to eat the horrid snack food just to survive. Children, on the other hand, will eat anything, and, as they often do, children grow up. The next generation of British not only ate Twiglets, they demanded them! Twiglit manufacturing was retooled for the civilian market, and few if any in England still remember that Twiglets were originally a weapon of war.

Twiglets first came to our attention via imported television shows such as "Whose Line is it Anyway?" and "Mr. Bean". Naturally, we were curious about a snack food that was marketed as a piece of wood, but what we didn't know was that the primary flavoring was yeast extract. Mmmm, yeast extract. Known as "Maramite" in England, and "Vegemite" in Australia, this food-like substance has been the subject of derision by more than just a couple college-paper columnists. To state that it is an "acquired" taste is equivalent to saying that bashing yourself in the head with a claw hammer is "uncomfortable". If it were sold in the U.S., it would probably be positioned in the market as an ipecac. If only we had known.

But at the time, we couldn't resist the siren call of scientific curiosity. Sharon toured the British Isles last summer, but was so enthralled with the sights and sounds that it completely slipped her mind to investigate the native snack food situation. Or was there something else? Something buried deep inside her, perhaps a racial memory from the time when man first discovered fire or invented the wheel? Nah, she probably just forgot. So, on a recent visit to London, Marc made sure to purchase 3 small bags of Twiglets. He tried the contents of one. Sharon got the second. And to this day, the third remains unopened.



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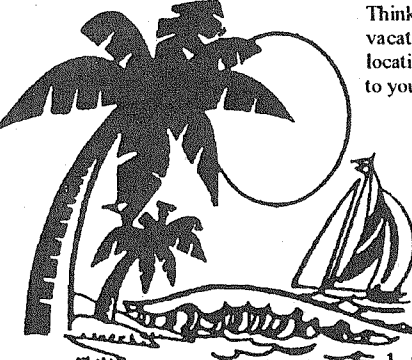
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ALUMNI

FROM PAGE 1

1984 to 1986, she served as a Congressional Fellow in the Office of Technology Assessment of the U.S. Congress, where she wrote on microelectronics research and development for the House Science, Research and Technology Subcommittee. Prabhakar is a member of Eta Kappa Nu and Tau Beta Pi and is a senior member of the IEEE. She was the recipient of a fellowship in the Bell Laboratories Graduate Research Program for Women.

Charles R. Trimble is president of Trimble Navigation, Ltd., and was one of the companies four founders in 1978. Trimble spent 14 years at Hewlett Packard in a variety of entrepreneurial engineering positions before

founding Trimble Navigation. From its early position as a manufacturer of high-end marine long-range radio navigation systems, the company has expanded to industry dominance in the manufacturing and application of the Global Positioning System (GPS). Trimble Navigation is a leading producer of GPS equipment for all types of navigation and positioning purposes, from surveying to vehicle tracking to mobile computing; the company also designed navigational instruments used in Operation Desert Storm.

The GPS, which utilizes atomic-clock-regulated signals broadcast by a system of satellites, permits the signals, broadcast by the three or, if possible, four satellites most favorably positioned for a given receiver, to be received

and relayed to a computer, which can then calculate the position of the receiver in terms of latitude and longitude, and sometimes altitude, with extreme accuracy. GPS receivers are used by Caltech's TERRAScope seismographic network to track the slow ground movements that are continuously occurring in California. Also, Trimble donated a GPS receiver for use with GAMCIT, the instrument designed and built by some 30 Caltech undergraduates that is due to fly on the space shuttle Endeavour this summer, with the hope that it will determine the source of mysterious, non-repeating bursts of gamma rays.

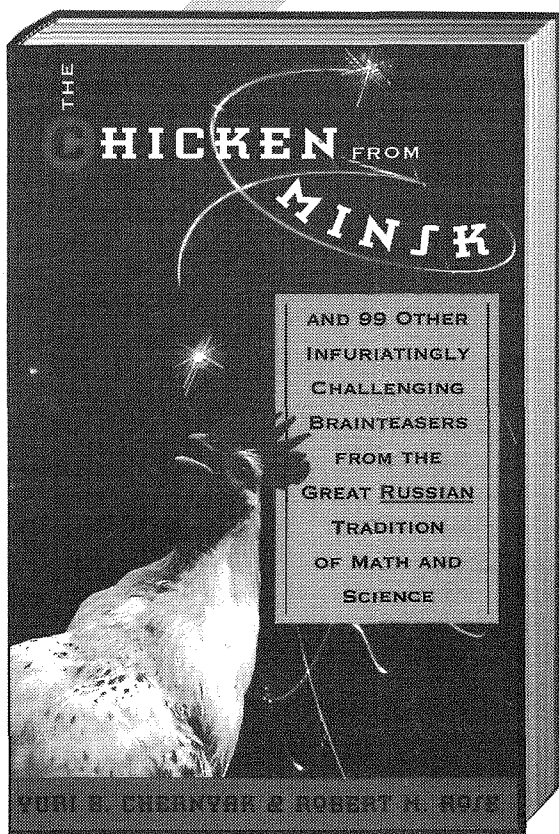
Dean emeritus of the School of Engineering at the University of Pittsburgh, Max L. Williams, Jr., retired from the university in Sep-

tember 1990 as Distinguished Service Professor of Engineering, Emeritus. He had come to Pittsburgh in 1973 from the University of Utah, where he had spent eight years and served as dean of the College of Engineering and Distinguished Professor of Engineering. Prior to that, he had been a member of Caltech's faculty, starting as a research fellow in 1950 and rising to professor of aeronautics. Williams has lectured internationally and served on numerous governmental technical advisory committees, chairing several. His many positions include those of associate member of the Defense Science Board, consultant for the Defense Department, technical advisor to the State Department, member of the U.S. Air Force Scientific Advisory Board, and holder of the General Lew

Allen Research Chair at the U.S. Air Force Institute of Technology as Distinguished Visiting Professor of Aeronautics.

The founder and editor-in-chief of the International Journal of Fracture, Williams has concentrated his professional research and industrial consulting activities in the field of general materials behavior and structural mechanics and design, with a specific interest in both cohesive and adhesive fracture. He has had a long-time interest in initiating and supporting small-company development and entrepreneurship, especially in high-technology enterprises. He is currently serving as a member of the investment advisory committee of a California high-technology venture-capital company.

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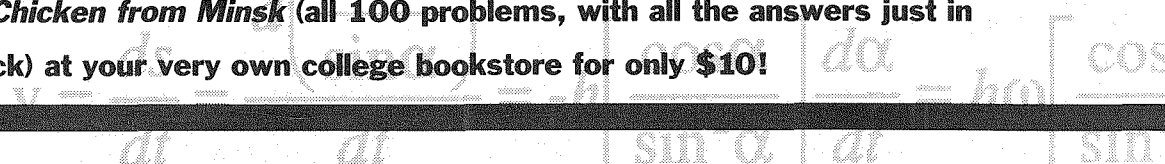


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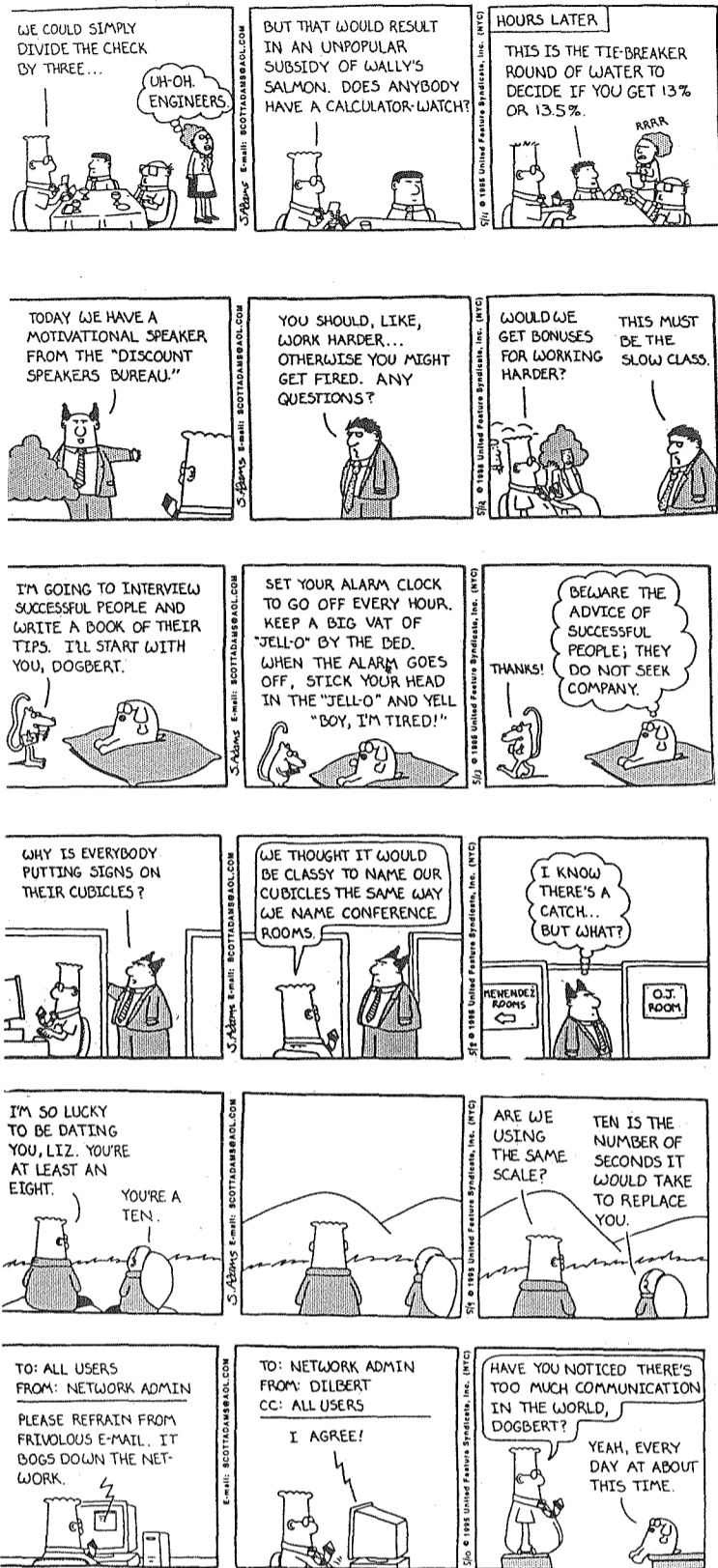
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THE MÖBIUS STRIP

TWISTED IDEAS WITH A STRAIGHT EDGE

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by Rob Rossi

Mail Order Lunacy — Having been overseas for a while, it was something of a shock for me to come back to the good old U.S.A. and have to readjust a few things: like the fast-paced lifestyle, the sales calls, and all the junk mail. For some reason, our address gets some really ridiculous junk mail. It rivals what a former college roommate of mine got on a regular basis, because he was sucker enough to fall for it.

I distinctly recall how on one occasion he called a \$3/minute 900-line to find out what his "totally free" prize was. After about 10 minutes he'd found out he'd won a typewriter and had given his mailing address so it could be shipped to him by first class mail. ("Hmmm? A typewriter, first class mail?" I asked...) After two weeks of full mailboxes (I didn't think he could get any *more* junk mail) a little package arrived, and he opened it to find his 10 cm² plastic typewriter. But he figured he could recover his losses on that one by getting in on a "sure thing." This guy sent him a letter explaining that he had made over \$330,000 with his fiscal chain letter: See the list of five names up above? First, put one-dollar bills in each of five envelopes and mail them to those people. Then take the top name off the list and insert your name at the bottom of the list. Make 50 copies and mail the new letter to 50 people. (Oh, by the way, you can get a list of 50 names and addresses from me for the low, low price of only \$13! What a bargain!) In a few weeks, you'll be rich!

I forget the numerical details, but I worked it out and the impressive figures quoted assumed only about a 30% response rate. That's sadly believable. Who would be stupid enough to spend \$5 on the chain returns, I don't know. But my roommate was all set to do it. I just envy the originator, who was making a killing by selling 50 names at \$13 a pop, probably the same 50 names he'd already mailed letters to!

Most of the mail we are getting at our address doesn't quite live up to that same billing, but I'll keep my eyes open and let you know if I find a deal too good to pass up. Don't hold your breath. So far the best I can offer is a credit card with "NO Annual Fee..." ...but a \$50 minimum periodic finance charge, which sounds a heck of a lot like a \$6 annual fee paid on the installment plan. If you can't plunk *that* down all at once, maybe you *do* need a credit card!

Local Talk — My thanks for the following localism-related items!

From Steve Ginsburg:
Measure of a Boston Accent:

How few syllables one can squeeze the word "Worcestershire" down to.

Measure of a Texas Accent: How many syllables one can squeeze into the word "sheet." (I may have misspelled that.)

From Robert Knop:

In southern California, people tend to refer to highways by name, like the "Ventura Freeway" or the "Hollywood Freeway." Go north, and the highways become numbers. (Actually, most of the rest of the country uses numbers, even for named highways!)

Rob added, "If you do use a number, the way you use that number seems to depend on where you come from. Is it '5,' or 'the 5,' or 'I-5'? This doesn't seem to be as consistent a regional thing as 'soda' vs 'pop,' but I think there are correlations between the terminology you use and where you come from. Myself, since I say I'm 'going home' when I drive up north to visit my parents, and then when I leave to come back here, I say I'm 'going back home,' I'm hopelessly confused as to just where I live, and so I think I tend to use '5,' 'the 5,' and 'I-5' interchangeably."

• Puzzler #1 — This is a new feature inspired directly by Erik Severin and indirectly by the car repair team of Click and Clack. Every two weeks Erik and I hope to find something to challenge your mind and/or database, put it in here, and try our utmost to provide a plausible answer to it two weeks hence. We're going to classify the puzzlers as either science, pseudo-science, quasi-science, or cold fusion, indicating to what extent they fall into the realm of general technical specialization here at Caltech.

This first puzzler is a doozie, I think. It definitely belongs in the 'science' category. It was put to me by my Computer Science roommate Markus Weber, who is working to develop a computer lip-reading technology.

Imagine you have a camera taking a picture of a flat triangular object some unknown distance away. The two-dimensional object is well-known to you, but has no surface features like color; that is, it is a stick triangle with marked vertices A, B, and C — and you know the distances AB, BC, and AC (and thus all the angles). The camera takes a picture of the triangle, but it can not tell you how far the triangle is from the camera. It only gives you three rays: A, B, and C. You know that point A lies on ray A, point B on ray B, and point C on ray C. The question is: how many different positions of triangle ABC can correspond to a single set of rays A, B, and C? We're quite sure that the solution is not unique, viz. there

is more than one solution for MOST sets of rays... but I won't say more than that until next time. If you think you have a solution to this puzzler, and would like it counted and possibly mentioned with the solution, mail it to me at rossi@cco.caltech.edu. Please describe what method you used to solve the problem, because as you'll read below I'm keenly interested in that, too. Sorry gang, I don't have any bribes, er, prizes to offer. (At least nothing good enough to avoid insulting you... hey, I'm a student!)

Thought Patterns — Puzzler #1 brings up something I was thinking about because of a discussion I had with Yevgeniy Kaganovich, a very observant physicist, regarding the habits and thought patterns of the different sciences.

After describing his puzzler to me, Markus the computer scientist went on to describe how he was trying to solve the problem using numerical methods... something about calculating spheres of possible B and C locations for all points on Ray A and finding all two-tangent solutions. Having done a lot of numerical work myself, I wasn't surprised when he told me that he had trouble with convergence, and either got nothing or thousands of pages of output. As an experimental chemist, with an engineering background, I wasn't about to try the same thing. Within minutes I had strings tied from a door-knob to three different points on a chair and was cutting cardboard triangles. When I posed the puzzle to my roommate Nikos, a physicist, he suggested approaching the problem analytically: that is, with analytical geometry. His first thought was about appropriate coordinate system choice. A mathematician friend from my alma mater immediately began considering limiting cases. Now, you may think one of these methods sounds good and the others a bit dumb — but the point I want to make is that your opinion probably reflects your own educational and experiential background.

There's this ongoing feud at the boundaries between the sciences about the appropriate viewpoint from which to attack many problems. Physicists tend to look at things from the standpoints of elementary particles, chemists from the atomic viewpoint, and biologists from the organismic viewpoint. Each one makes sense in certain situations but not so much in others. A frog is a frog to a biologist, mostly water to a chemist, and basically too big for a physicist to see, except perhaps as a roughly 250 gram point-mass capable of self-acceleration. On the other hand, put too many biologists in a room to think about the universe and you get the Gaia hypothesis. When the sciences argue amongst each other, it is usually because of this difference in viewpoint. Strangely enough, as an undergrad I had a botany professor who made a living looking at this question of "scale of viewpoint." It is a sub-field of systems science, involving "Hierarchy Theory," and I found his discus-



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ASCIT Minutes 5/03/95

Present: The BOD minus Greg [tardy], Laura [tardy], and Melissa [absent], Grace Yang, Alain Inugai, Erick Co, Albert T Lee

⇒ Meeting begins at 4:05 p.m. Grace asks for the unspent athletic money from last year. The BOD says that she can have all of it. Kanna gives her a check for the jackets.

⇒ Alain speaks on the behalf of the National Society of Black Engineers. The Caltech NSBE is trying to have a Black Family Reunion (all of the black alumni would come to Caltech). Alain says the NSBE can't be funded by the Office of Minority Affairs because of money troubles, and he asks for \$200.

⇒ Erick (president of the CCSA) and Albert (president of the KSA) want money for the annual CCSA⇒ KSA basketball game. After the game, there will be a barbecue (near the gym) open to the entire campus from 3 to 5 PM. Albert and Erick agree to publicize the barbeque, and the BOD gives them \$100.

⇒ Apparently, Eric Hackman took off with the ASCIT Movies' checkbook and financial records. The loss of the checkbook is preventing the Movies Team (or anyone else) from getting any of the (approximately) \$2000 in the Movies' bank account. The BOD discusses accountability for ASCIT Movies' money. Some members of the BOD would prefer having an ASCIT Movies Business Manager, while others believe that there should simply be at least one reliable person accountable for the \$9000 ASCIT gives to the Movies every year to pay for the movie fees.

⇒ James accidentally drinks Ken's Coke. Yummy. Ken smiles.

⇒ The BOD discusses club budgeting. The Caltech C emailed ascit@cco and requested a few hundred dollars, but in an old Little T, Jon discovers that the Caltech C aren't recognized by ASCIT (so we

can't give them money).

⇒ Gavin says that it seems like we're not going to know about the financial state of the Little T until the BOD appoints a new Little T Business Manager. We have to know how we're paying the editors. The BOD gave cash advances to two editors first term with the idea that they would pay ASCIT back and then would receive their proper salaries. Since then, ASCIT has not received any word over whether they're going to pay us back.

⇒ Greg says that only three people have paid for the Formal. Greg wants people to make out checks to him (Greg Steiert) and put them under his door (Page 206). Greg also wants students to invite faculty members to the Formal. Faculty can send a check made out to Greg Steiert (MSC 975) along with their name, the name of the person they're going with, and their address (so Greg can send them an invitation).

⇒ Brian Katon enters. He's waiting for the photocopier to clear up.

⇒ Ken announces that the ARC is working on a survey on the Registrar that will happen first term next year (seniors this year may get an exit survey). Ken also mentions that the ARC is going to do a research CLUE.

⇒ Tom says the IHC is working on parking, Avery House questions, and interviews for innumerable positions. The Dean decided on Frosh Camp positions (only one Dean's helper this year) and mailed everyone who applied to go. Finally, off-campus housing contracts are going to change beginning next year. Every term, the MOSH will hold a mini-lottery with all of the rooms off campus that either aren't filled to capacity or aren't filled at all. The lottery will prevent a lot of people from taking off-campus doubles as singles for an entire year. People who live in doubles as singles will be

able to get out of the lottery by paying 50% more for the room than they already were.

⇒ Dave will take down signups for the ASCIT appointed offices (Movies Chair, Big T people, Little T people, Totem people, blue people, etc) on Friday (I did). Dave will also eventually put up a signup for Big T Business Manager (did that, too). Dave is two for two. Go me.

⇒ Laura enters (finally) and says she'll put out paper boxes so the Flems that are photocopying hundreds of sheets of blank paper will have more paper.

⇒ James says the Inside World proposal will get to the BOD. Eventually.

⇒ Jon says that Chris Bryant changed the BOC portion of the ASCIT WWW page (it's boring, but better than a lot of the stuff on the web, so check it out—you can even finger the ASCIT secretary and see what stupid .plan he's got on my account) (point of view shift—can you handle it?). James says that Chris still hasn't given him a lot of BOC Chair stuff.

⇒ Kumar enters and asks for \$500 for Kelrof. Unfortunately, he asked for the exact amount of money that ASCIT budgeted for Kelrof, so we gave it all to him. Kelrof is on Memorial Day weekend. Come see your favorite ASCIT officers pretend like they're athletes, and while you're there, you might as well run. So come to Kelrof, and RUN. Or walk. Or jog. They don't really care. (I'm lying—they do care. But if you can't run for 24 hours, at least walk for 24 hours.)

⇒ Minutes written with my Green Caltech Employees Federal Credit Union pen (and it ran out of ink! But it lasted forever, so it was a cool pen. I want another one.)

Respectfully submitted,
David Relyea
ASCIT secretary

YNEWS

by Topher Hunter

Well, gang, this is going to be my last Y News, as a new set of officers takes their places at the Y. (I know you're all so disappointed, but that's the way of things.)

Today, at noon, Evan Charles will be performing on Winnett Quad in this week's edition of the Y's Noon Concert Series.

Tomorrow, Saturday, Mickie will be leading yet another day hike into the San Gabriel Mountains. Hikers of all experience levels are welcome to come. Sign up at the Y.

International Day is almost upon us, and barring some last minute changes, will occur next Friday on Winnett Quad. Drop by and experience many of the cultures that are represented on the Caltech campus. It should be an exciting afternoon, full of music and revelry from around the globe.

Next week, its time to prepare once again for Boffo Bonecrusher Broomball. Teams must be signed up by Wednesday the 17th, and games will be played the night of Saturday the 20th. Ice times are being finalized and should be available by the time you come in to sign up.

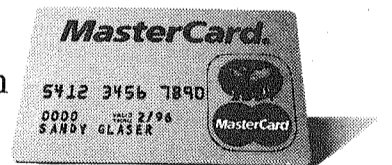
Finally, congratulations to the new Y officers: Andrew "Nature Man" Schoen, President; Donna Ebenstein, Vice-President; Sam Webb, Treasurer; and Sam Foster, Secretary.

That's it for me, folks. My time is up, and I'm handing off my keyboard to Donna. Ciao!

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FOXTROT

by
Bill
Amend

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MOTHERRR!
PAIGE, WHAT'S WRONG?
SLAM!

THESE WEIRDOS KEEP CALLING ME UP! I DON'T EVEN KNOW WHO THEY ARE! THIS ONE GUY CALLED FROM NORWAY!

WHAT THE HECK IS GOING ON?!

WELL, IF I HAD TO GUESS...

THE INTERNET: THE ULTIMATE BATHROOM WALL.

HOW'S THIS? "FOR A REALLY REALLY GOOD TIME, CALL PAIGE AT..."

MOM, PAIGE PUNCHED ME IN THE STOMACH AND NOW I'M COUGHING UP BLOOD.

COUGH COUGH

SEE ?? I THINK YOU SHOULD TAKE AWAY HER ALLOWANCE AND GIVE IT TO ME.

JASON, THAT'S KETCHUP.

YOU KNOW, IT'S POSSIBLE MY BLOOD IS JUST NATURALLY THICK AND ZESTY.

SON, JUST HOW MANY COLAS DID YOU AND MARCUS DRINK TODAY?

DR. TING, HAVE I EVER TOLD YOU WHAT A WONDERFUL TEACHER I THINK YOU ARE?

I MEAN, YOU'RE SO NICE... SO FRIENDLY... SO WITH-IT...

NO, PAIGE, YOU CAN'T HAVE AN EXTENSION ON YOUR LAB REPORT.

MAYBE TOO SMART.

THANKS, BY THE WAY, FOR THE CHOCOLATES.

LA DEE DA...

BEEK!

WHY DOES THE HOT WATER ALWAYS SEEM TO RUN OUT WHEN I'M IN THE SHOWER?!

SO THIS IS THE MAGIC VALVE, EH?

IS SHE OUT YET?

COMMAND POST ALPHA TO AGENT X-7, DO YOU COPY? OVER.

WHAT ARE YOU DOING?

TESTING THE RANGE OF THESE WALKIE-TALKIES WE FOUND IN AN OLD BOX IN THE BASEMENT.

MARCUS IS STARTING AT HIS HOUSE AND WALKING OVER HERE. AS SOON AS HE GETS MY SIGNAL, WE'LL KNOW EXACTLY HOW FAR AWAY THESE'LL WORK.

WANNA KNOW WHY THEY WERE IN AN OLD BOX IN THE BASEMENT?

COMMAND POST ALPHA TO AGENT X-7, DO YOU COPY? OVER.

LOUD AND CLEAR. OVER.

ADAM VILLANI: MEDIA GUY



by Adam Villani

Crumb

This disturbing yet hilarious documentary about underground comic-book artist Robert Crumb (most famous for the "Keep on Truckin'" cartoon he detests and the classic Big Brother and the Holding Company *Cheap Thrills* album cover) is a fascinating probe into the mind of the admittedly twisted, misanthropic cartooning genius and his extremely dysfunctional family. The most telling moments of the film come in the interviews with his older brother Charles, who had not held a job in twenty years, never leaving the house and living a medication-sedated life with his mother at the time of the filming, and with his epileptic younger brother Maxon, who has a history of molesting women and meditates on a bed of nails, when we realize that the ultracynical and misogynistic Robert was actually the best survivor of the rocky Crumb childhood under a tyrannical father and amphetamine-addicted mother. The otherwise reclusive Crumb family is remarkably candid in front of the camera for director Terry Zwigoff, a close friend of Robert's. This heavily-acclaimed documentary is currently showing at the Nuart Theatre in West Los Angeles until May 18th, and will probably expand its run after that.

Burnt by the Sun

Set in the plains outside Moscow at the dawn of Stalinism, *Burnt by the Sun* is post-Soviet Russia's extraordinary first winner of the Academy Award for Best Foreign Language Film. Though I would still have personally liked to see *Eat Drink Man Woman* take the award, *Burnt by the Sun* makes recent fluffy winners of the Oscar like *Mediterraneo* and *Belle Epoque* look like bad TV sitcoms by comparison. This intriguing film takes place during one seemingly idyllic summer holiday wherein our protagonist, a former Bolshevik Revolutionary hero portrayed by the director Nikita Mikhalkov (*Close to Eden*, *Dark Eyes*), and his family's life is disrupted in more ways than is immediately apparent by the visit of a mysterious stranger. Poignant at a level more typical "tear-jerkers" could never attain, *Burnt by the Sun* is at once beautiful and ominous; I highly recommend this film playing nearby at Laemmle's Colorado Theatre.

The Orb, Orbis Terrarum

I first heard a track from this album (I believe it was the last one, "Slvg Dvb") on innovative Claremont radio station KSPC-88.7 FM while half-asleep in the rear of a car on the way back from a minor league baseball game in San Bernardino. It was quite the experience, as the music wandered in and out of my dreams, enhancing them to the point that I was in the zone between consciousness and slumber for more than 15 minutes, able to both dream and listen to the piece of music (no, I wasn't on drugs). Ambient techno group The Orb excels at creating hallucinatory sonic atmospheres that one feels rather than hears, and their latest album is no exception, utilizing as wide a palette of sounds as on their last release *Pomme Fritz* while keeping a rhythmicity that can successfully sustain this 80-minute album. This is one of the best new albums I've heard.

Nightlife Tip

The recent *L.A. Weekly* supplement, "The Essential Guide to Los Angeles at Night," is actually pretty good, containing listings of numerous clubs, restaurants, and other amusements (including some choice freeway drives) all around the basin. The eateries range from chic bistros on Sunset Boulevard to King Taco in East L.A., and the other categories are just as diverse. A lot of these places look like places I may actually go one of these days; the guide is concise and useful. Surprising from the rag that seems to fill up half of its space with phone sex ads.

Friday

This refreshing new comedy is the laid-back, flippant West Coast counterpart to the edgier, angry urban movies set on the East Coast like *New Jersey Drive* and *New Jack City*. It follows one Friday in the life of Craig Jones (Ice Cube) and his best friend Smoky (Chris Tucker) who had a bunch of weed to sell but used it all up himself. The problem is that Smoky's supplier is looking for money or the weed, and is getting more irate the more apparent it is that he isn't going to get either one. While I didn't grow up in South-Central Los Angeles (I'm from Long Beach) I could really identify with the lazy day portrayed in *Friday* and appreciated the easygoing L.A. aesthetic handled well by director F. Gary Gray; *Friday* is not a cartoonish exaggeration of the streets but a skillful distillation of the humorous things that could happen one day in the 'hood into a very funny 90 minutes. Your appreciation of *Friday* may be highly dependent on your individual tastes, but for me it really hit the spot.

SEE "MORE MEDIA GUY" PAGE 10

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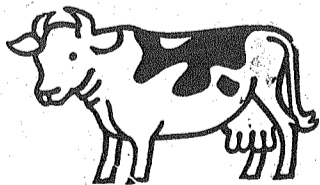
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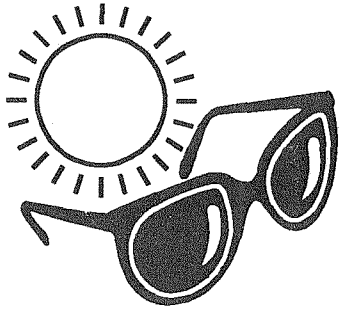
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MORE MEDIA GUY

FROM PAGE 8

Destiny Turns on the Radio

This curious independent production from new writer-director Jack Baran is original and quirky, with Quentin "Pulp Fiction" Tarantino in an important supporting role, and it still isn't very good. *Destiny Turns on the Radio* follows Dylan McDermott as an escaped convict in Las Vegas trying to get back the girlfriend (Nancy Travis) and money that landed him in jail in the first place, all the while encountering a strange guy with mystical powers named Destiny (Tarantino). Playing like a *Repo Man*-lite, Radio has plenty of weird characters living on the seamy underbelly of society spouting bizarre philosophies, but none of the quick action, snappy dialogue, or real rebellious feel that made works like *Repo Man* or *Reservoir Dogs* great movies. It does have its good moments, but it also has Jim Belushi to give you *Taking Care of Business* flashbacks. Overall the movie drags and feels remarkably like a bland Hollywood movie for an independent breezy noir-fantasy-comedy. Some tightening up in the editing room and better dialogue could have probably made this a much better film.

Hey, I went to the Norton Simon!

This is my fourth year at Caltech, but I only recently visited the closeby Norton Simon Museum of Art for the first time. It's much bigger than it seems from the outside, and contains a much more varied collection than the Huntington's distinguished yet somewhat tedious collection of mainly portraits. While I'm no art critic, the sinewy strength of the Rodin sculptures and the stark beauty of the photography exhibit located downstairs particularly caught my eye. There are extensive examples of European paintings from the middle ages to the present as well as Indian religious art and a relaxing sculpture garden. The Norton Simon is located on the corner of Colorado and Orange Grove Boulevards, and is a great place to spend an afternoon.

The Basketball Diaries

The Basketball Diaries features a great performance from hot new star Leonardo DiCaprio (*What's Eating Gilbert Grape*) and is based on the hit counterculture diaries of basketball star, poet, musician, heroin-addicted "New York legend" Jim Carroll, but suffers from an ill-conceived screenplay that did its best to turn his story into Just Another Junkie Movie. The problem lies in the translation of episodic diaries into a very standard addiction movie structure: addict's life before drugs, addict gets into drugs, sinks to the depths, tries but fails to go straight, hurts family member, goes clean and is redeemed. We find out a lot about Jim Carroll the Junkie but not enough about Jim Carroll the Legend. Nevertheless, music-video director Scott Kalvert's first feature film does show promise, and is filled with good material, especially in the first half-hour (before Jim's descent into drugs). Unfortunately the whole is less than the sum of its parts.

The Secret of Roan Inish

Writer-director-editor John Sayles (*Matewan*, *Eight Men Out*) is most known for his hard-hitting dramas dealing with working-class Americans, but for *Roan Inish* he crosses the Atlantic to make a rural Irish fantasy. The Coneely family had lived on the island of Roan Inish before World War II, but now can only see it across the sea when the light is right and tell stories of the selkies - creatures half seal, half human - rumored to dwell on the island. This enchanting tale moves along nicely and is suitable and enjoyable for children and adults alike. In particular, the work of Oscar-winning cinematographer Haskell Wexler (*Bound for Glory*) shines here, creating a bright green 1940s Ireland constantly haunted by rolling gray fog. It has been said in reference to *Lawrence of Arabia* that the cinematographer's job is to make every frame of the film a perfect photograph, and this describes Wexler's work here precisely. This film has been in release for three months but is still playing at Landmark's Samuel Goldwyn Pavilion.

TRACK

FROM PAGE 3

team's total of 22, Kleiman carried the load enabling the men to defeat both Whittier and Cal Lutheran.

Just as Kleiman carried the men, so did senior Amy Oldenburg put the women on her back with her two All-Conference performances and 12 of the women's total of 19 points. Oldenburg started the meet off with her best hammer throw of the year, 123 feet, establishing a new school record. Unfortunately, she finished in 7th place and out of the money. Apparently, that only made her more hungry for glory as she proceeded to heave the discus a healthy 113'4" (another best of the season) to claim 2nd place in the conference. On that one throw she doubled her total point output of last year with 8 and she was far from being done. When the javelin throw competition was over she had finished 4th with yet another season best performance of 105'8". As alluded to last week, Oldenburg really steps up when the competition is there and the meet is important.

Coach O'Brien had on his lucky Irish shamrock shirt under his normal coaching garb, and it seems there must be something to that luck of the Irish stuff. There's just no other way to explain the All-Conference performance of 11 feet in the Pole Vault by freshman Tim Yarnall. Besides that being a personal best by a foot, five other vaulters were unable to clear their opening heights, allowing Yarnall to sneak in there for 6th. I hate to admit it, but there were more than a few of us over in the stands celebrating every time another vaulter went out. Yarnall dedicated his performance to teammate and fellow vaulter Ben Siron who got injured in practice and was unable to compete in this meet.

Check the men's 4x100-meter relay team for steroids because they trimmed a full 2 seconds from their previous best performance of the season. Being fully rested and having flawless hand-offs must really work because Evan Reed, Ron Stieger, Art Greenberg, and Rob Bergeron claimed 5th place All-Conference honors in 43.44 seconds. Take away Evan Reed and substitute Matt Metz into that same group for the 4x400 Relay and you have another All-Conference team with a time of 3:29.8 (second best of the year).

Both relay teams for the women utilized the same cast of characters, and, as you might expect, they, too, were All-Conference in both races turning in their best times of the year in both races. Ginger Garcia, Karen Bletzer, Gretchen Larson, and Cailin Henderson clocked 58.78 seconds to claim 4th place in the 4x100-meter race, and came back later to take 6th in the 4x400 relay in 4:46.10. It appears as though all that fluorescent orange streak-

ing around the track really had Oxy rattled because they had to pass the baton out of the zone in trying to catch up. Alas, they got disqualified.

Besides competing on both All-Conference relay teams, Cailin Henderson took time out of her hectic schedule to place 5th or 4th in the 3000-meter race (we think the officials screwed up and the meet director is checking into it for Coach). In a field of 27 athletes, there stands to be a wee bit of confusion at the finish line. The current theory is the Accutrak camera took a picture of a runner who had been

Coach O'Brien had on his lucky Irish shamrock shirt under his normal coaching garb, and it seems there must be something to that luck of the Irish stuff.

lapped. Keep you posted. In any event, an award for All-Conference in track completes the set of bookends Henderson started during Cross Country season when she was All-Conference and went to the National Championships at Lehigh Univ. While Cailin was 3 times All-Conference for the women, so was Ron Stieger for the men. In addition to his relay heroics, he raced his best 800-meters of the year in capturing 6th place, stopping the clock at 1:58.20 in a highly competitive field. Stieger ran another perfect negative split race with his first lap in 59.5 seconds and the second lap in 58.7, and he needed every bit of that speed as he passed the one competitor between him and All-Conference in the last 25 meters.

Matt Metz tore up the track in the prelims of the 400-meter intermediate hurdles in 58.10 seconds, for a season-best clocking. Well, check the octane in that boy's tank because he screamed around the oval in 56.87 seconds in the final for 6th place. He also made it into the finals of the javelin but had to settle for 8th. Rumor has it that Metz has turned down a lucrative offer from UC Berkeley in order to remain at Caltech to complete his 4th year of track eligibility.

While that pretty much highlights the All-Conference athletes, there were many other exciting performances by the Battlin' Beavers that I'm compelled to also mention. "Big Daddy" Karl Thulin took that discus and chucked it 121'7", establishing a new personal best which placed him 7th in the SCIAC. Gretchen Larson

had season bests in both the High Jump (4'7", good for 7th place), and the Triple Jump (31'3", also good for 7th place). Larson also leaped 13'8" in the Long Jump.

Senior Ginger Garcia closed out her competitive career at Caltech in style. She raced to a personal best of 5:20.96 in the 1500-meters in order to qualify for the final, then she smoked a 5:15.29 in the final to capture 9th place. Garcia returned later to run her 2nd best time ever of 11:34.06 for 10th place in the 3000-meter event. Freshman Brian Barris clocked 4:12.04 in the prelims of the 1500-meters and came back on Saturday to clock 4:12.08 in the final to place 8th. Talk about a consistent performer, his time was a personal best by 2 seconds. Barris has served notice to the SCIAC that his star is on the rise with two very gutsy races. Barris also ran a personal best of 2:02.25 for 800-meters.

Senior Schuyler Cullen ran two very good races to end his collegiate racing career. After clocking 4:23.56 for 1500-meters, he returned later to blast a personal best 800-meters in 2:06.65. Cullen has been given permission now to return to the weight room and continue his quest for that Mr. Olympia look. Heidi Eldenburg raced to two personal best performances. She clocked 3:23.47 for 800-meters and 6:46.69 for 1500-meters in her first year of competitive running. Tom Meyer chopped an astounding 28 seconds from his previous best 3000 Steeple time, clocking 11:02.67. Brad Nakatani also chopped his best time down to 11:32.86 in the same race. Chris Cary has a new personal record for 5000-meters, crossing the line in 17:30.0. Both Harmesh Lad and Kade Larsen ran their best times for 1500-meters, 4:57.88 and 5:02.35 respectively. Evan Reed clocked 12.34 over 100-meters and 24.86 for 200-meters, a mere whisker off his best. Aaron Kuzin had a sub-par day in the Shot Put with a heave of 39'4", something about not being psychologically warmed up. Every good thrower I ever met was a head case. And on that note, congratulations to the men's team for their 6th place finish in the SCIAC, and also to the women's team for the great efforts all season. With a few more women on the team we could start working our way up the conference ladder. Oh yeah, I almost forgot, Coach O'Brien says he's very proud of every one of you!

This weekend at Oxy, the Oxy Invitational, a big time track meet for all you sports fans, occurs Saturday evening from 4 to 10 p.m. Come out and watch Ron Stieger in the 800, Cailin Henderson in the 3000, Matt Metz in the 400 IH, Amy Oldenburg in her 3 throwing events, the 4x400 Relay team of Metz, Stieger, Greenberg, and Bergeron. Dan Kleiman will be attempting to qualify for Nationals in the 3000 steeplechase.

MOBIUS

FROM PAGE 6

sions of the topic both fascinating and insightful. Think about how you tend to approach a problem, like this issue's Puzzler, and ask yourself where you fall on the generalized physics-chemistry-biology continuum... you may find it explains a lot!

I've chosen the physics-chemistry-biology continuum as my example because it is the most familiar to me. But there are other viewpoint continua also. In math, they go from proving the

existence of zero in number theory, to geometry, to algebra, calculus, differential equations, applied math, and finally to numerical methods, where they could care less if zero exists, so long as they get close to it in their convergence parameter. Most sciences have theory, experimental, analytical, applied, and engineering people. Though they really should work together and learn from each other, it is sad how often they can't understand each other, and sometimes don't even care to, viewing those at the opposite end of the spectrum with disdain.

CRAYOLA

FROM PAGE 1
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TENNIS

FROM PAGE 3

Friday and Saturday, May 5th and 6th, the team was defeated in the first round by nationally-ranked Cal Lutheran. David Park, however, gave the third ranked player in Division III a tough match, taking him to a tie-breaker in the final set. Luckily, there was a consolation bracket. Caltech

played arch-rival Whitter in its next match, ready for the opportunity to avenge their regular season loss. It was late Friday afternoon when the singles matches were over. Caltech led four matches to two with victories by Chandra Das, David Park, Ronak Bhatt, and Ben Miller. Carlos Maldonado and Amir Alagheband both lost close matches. The next morning, Caltech needed only one win in

doubles to clench the victory. The win was provided by the second doubles team of Mike Zeineh and Amir Alagheband, who played a brilliant match against a strong Whitter team. In the finals of the consolation bracket, Caltech lost a tight match to Occidental. Caltech finished the season tied for sixth place in the conference with Whitter.

This season, we say good-bye

to graduating seniors Chandra Das, David Park, and Mike Zeineh as well as the men's coach of fifteen years Mike Jackson. We would like to take this opportunity to say "thank you" to coach Jackson for all the time and effort he has devoted to the team, and to wish the graduating seniors good luck in the future. See you next year.

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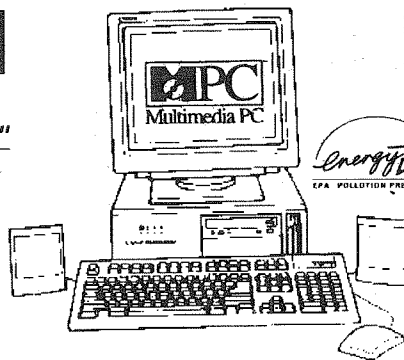
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Notices

Sodas with Sharyn and Stan: Sharyn Slavin, Assistant Vice President for Student Affairs, and Stan Borodinsky, Student Affairs Administrator, invite you to stop by the Coffeehouse on Friday, May 12th from 2 to 4 p.m. to talk with them. All students are welcome, and free soft drinks will be available. This is the last time this term they are scheduled in the Coffeehouse. Please drop by and get to know them.

Preregistration cometh! Schedules of courses expected to be taught in the Humanities and Social Sciences during the 1995-1996 academic year are now available in 228 Baxter.

The Engineering AS Division announces a new course: E2, "Engineering And Entrepreneurship" 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. at the Ramo Auditorium.

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.

From the Counseling Center

Reconvening on Tuesday, May 16th, the Counseling Center will be holding a **Management Workshop on Relaxation and Stress.** Dr. Jon Pederson and Tay Sandoz, M.A., will teach interested students a variety of relaxation techniques aimed at the management of daily stress. The workshop, which will be held over four consecutive

Announcements

✻ denotes a new announcement.

Tuesdays between the hours of 12:30 and 1:30 p.m., will include some lecture material but will primarily consist of individual exercises in relaxation techniques including muscle tensing, imagery, passive and active concentration, and an introduction to non-mystical meditation. The focus of the workshop will be on practical methods for everyday use, which can be learned quickly with daily practice. All interested in attending are asked to contact the Counseling Center at extension 8331.

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.

Coming Events

✻The 'Mostly Baroque' Concert will be held Today, May 12th, at noon in the Dabney Lounge. Music by Couperin, Handel, LeClair, Quantz and 'a little Mozart' are in the program, plus lunch will be provided for the first hundred people attending!

✻Two Sunday Chamber Music Concerts are to be held in the Dabney Lounge. On May 14th at 7 p.m., the program includes works by Beethoven and Mahler, while string quartets by Beethoven and Dvorak, a woodwind and piano quartet by Saint-Saëns, and trios by Brahms and Katherine Hoover are to be performed on the May 21st show at 3:30 p.m. Admission is free to both shows.

✻A benefit Wine and Dessert tasting will be held for The Child Educational Center on Saturday, June 10th, between 7:00 p.m. and 11:00 p.m. in the Dabney Lounge. Admission is \$30.00 per person; please call 354-3418 for more information.

The 16th annual "Bandorama" featuring the Caltech Jazz Bands and The Caltech Concert Band will be held on Saturday, May 13th,

at 8:00 p.m. in the Beckman Auditorium. Both bands will be directed by William Bing in this free concert.

Talks, Lectures, and Seminars

✻A William Bennett Munro Memorial Seminar entitled "Complicity, Collective Action and Moral Individualism" will be given by Christopher L. Kutz of the Philosophy Department, UC Berkeley, on Wednesday, May 17th at 4:00 p.m. in the Judy Library.

✻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.

The **Society of Calligraphy** will be holding a free lecture by Stan Knight on Friday, May 12th at 7:30 p.m. at the Robbins Building, Pasadena City College. The lecture will focus on the consideration of the basic elements in design and their application to calligraphy. The "building blocks" of calligraphic design: letterform, color, space, texture, scale, contrast, imagery colorfully illustrated, and their individual importance will be discussed.

Club Announcements

✻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 begin-

ning class though six months prior dance experience is recommended for the intermediate class. No partner is required. There will be 4 classes in all—May 12, 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.

Join other "Women in Science and Engineering" Women at the Red Door Cafe for a monthly dose of caffeine and conversation. The first meeting will be held on Friday, May 12th at 3:30 p.m. Refreshments will be free for all WISE members.

The **Caltech Swedish Club** will meet on Sunday, May 14th at 3 p.m. at 446 S. Catalina Ave, Apt. 202 in Pasadena. Anybody interested in speaking Swedish or in Scandinavian culture is welcome. Swedish refreshments will be served. For more information contact either Mika Nyström (e-mail: mika@cs.caltech.edu, phone: x6237, 568-0501) or Lena Peterson (e-mail: lena@pemp.caltech.edu phone: x6994, 683-9102).

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 without a partner. This week the club will 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.

Jewish Family and Children's Services announces the continued availability of financial support for Jewish individuals and their families. There are loans, grants and scholarships available, and students may qualify for up to \$5,000 in aid. The Financial Aid Office has a flyer and questionnaire that you can use to apply, or you can call (415) 561-1226. There are no deadlines and students may apply throughout the year.

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 Cogle, Administrator, P.O. Box 4808, 712 Riverside Dr., Fredericton, New Brunswick, Canada E3B 5G4.

Summer Work-Study: 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 1, 1995. Your entire financial aid application must be complete by June 1 to be considered. If awarded, the work-study funding will begin with the July 3rd payroll period.

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.

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