

Give to this
day our daily
week.

The California **TECH**

"The easiest way
to succeed is to
redefine failure
as success."

Volume XCVI, Number 24

Pasadena, California

Friday, April 28, 1995

Campus Mourns Supervisor Mora

by Zack Berger

Francisco Javier Mora, custodial supervisor of the South Undergraduate Houses, was shot and killed early Friday afternoon while eating lunch with a co-worker outside the south entrance of the Student Activities Center. He was 36.

Security was called to the scene about 12:40 p.m., where Mora was found lying face-down with three gunshot wounds to the back. The victim was taken to Huntington Memorial Hospital and pronounced dead at 1:01 p.m. Friday.

According to Security and Pasadena police, Mora had been having lunch with fellow custodian Marta Romero while sitting on the wall of a planter on the side of the SAC driveway. It was then—according to witnesses—that Romero's estranged husband, Raul Alcazar Romero, drove up, stepped out of the car, and asked her a question. It is not known what he asked; her answer was "None of your business."

Witnesses say that Raul

Romero then pulled out a gun and shot Mora five times, saying, "Sorry, my friend." Mora's companion ran distraught from the scene and into the adjoining SAC hallway, where her screams alerted passersby. While not hurt, she was, as of Wednesday night, still hospitalized undergoing counseling.

The suspect left the scene in a white 1993 Nissan Sentra bearing a California license number 3CDM465; as of 11 p.m. Wednesday he had not yet been apprehended. Any information on his whereabouts should be communicated to the Pasadena Police Department at (818) 405-4501.

A witness saw the suspect Romero having words with Mora at around 12:15 pm on the day of the murder, near a campus lunch truck. Romero pushed Mora, who ignored him and proceeded to get lunch. Marta and Raul Romero are separated and were planning to divorce, according to police.

Javier Mora started work at Chandler Dining Hall in 1982; in 1986 he was hired as a senior cus-

todian for the South Houses. Mora was widely known to Caltech students and staff alike as a warm, friendly man, generously kind and helpful.

A candlelight vigil was held on Tuesday night outside Pasadena City Hall, where the Coalition for a Non-Violent City sponsors such events as part of its anti-violence campaign. Friends and co-workers of Mora came to honor his memory.

Caltech's memorial service was held in Dabney Hall at 3 p.m. yesterday.

The Office of the Vice President for Student Affairs has established a memorial fund to cover funeral expenses for the Mora family. Checks should be made payable to The Mora Fund and sent to the Student Affairs office, mail code 108-31. Any excess funds will go to Mora's four children.

The planter outside the SAC is now a shrine, with a photograph of Mora and several bouquets of flowers. A handwritten sign reads: "We Love You, F. Javier Mora."



Francisco Javier Mora, 1958-1995.

New SES Minor Created at Tech

by Samantha Foster

It used to be that students could learn about the scientific world they lived in by talking to professors; but, how long ago was it that you just walked into David Goodstein's office and started a conversation on scientific ethics? Never? Caltech Professor Dan Kevles wants to change that.

Professor Kevles, along with Professors Barkan, Cowie, Hilbert, Winters, and Woodward, began by having the Faculty Board approve a Science, Ethics and Society (SES) option last year, and this year an SES minor. For the first time Caltech undergrads will have the opportunity of attaining a minor here at Tech, the minor will be available next year. Science, Ethics, and Society is a new way for undergrads to look at science. The new area of study mainly focuses on how science is changing and how we, as scientists, are regarded differently by the public, how we influence the public, and the social and ethical issues in scientific research.

"We want to give SES an engaged extracurricular life," said Kevles. What he means is that beside Ay30 (or the Tuesday night desert class) there is little extracurricular involvement of faculty and students in intellectual activities. One method to

remedy this is SES 103. This one unit class meets four or five times a term in Judy library for a public policy lecture. The lecture usually lasts an hour and afterward there is usually wine, soft drinks, cheese and crackers for all to consume while chatting about the lecture. It's a great way to talk to Hum Profs without feeling intimidated (and the food is good too). The core class that is required for both the SES major and minor is SES 101. It is a two term class—first term is taught by Professor fiona Cowie and deals with the philosophy of science, second term, taught by professor Diana Barkan and deals with the history of science. While some of the bugs are still being worked out, the tag-team teaching worked well for the first-year this course was offered. The SES minor is a productive way to fulfill the 108 unit HSS requirement. The four year plan, that will be laid out in the 1995-96 catalog, details the ease with which a student will fulfill the SES minor by taking the HSS requirement plus a research tutorial class.

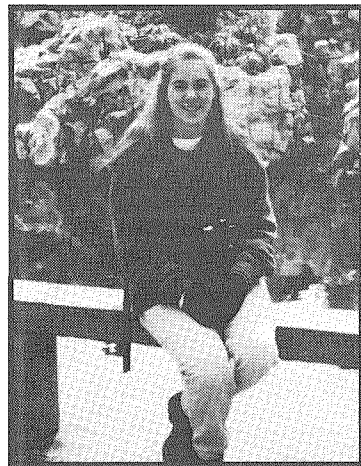
The point here is that the first minor has been created here; it's fun and there's no reason why you couldn't come out of here looking smarter and more socially adept than you really are!

Slemp Wins Noland Leadership Award

by Suzette Cummings

Alison Slemp, a junior with a double major in biology and history, receives the Robert L. Noland Leadership Award in a dinner presentation at The Athenaeum on May 11, 1995. The Robert L. Noland leadership award is awarded to an outstanding Caltech Student who has demonstrated exceptional leadership abilities.

Alison became involved in campus activities her freshman year. Her activities include time spent as President's Host Tour Guide, Pre-Frosh Weekend events, and activities within her student house, Blacker House, where she is now president. Alison has served on numerous



COURTESY ALISON SLEMP

student-faculty administrative committees such as the Student Affairs Committee, the Student-Faculty Conference Committee on the Honor System, and the Interview Committee for the Director of Admissions. Through-

out her years at Caltech, Alison has dedicated much of her time to student recruitment by helping to write and design publications for prospective students and by serving on the Freshman Admissions Committee.

Alison is an excellent representative of the Institute. She is a great role model for younger woman scientists and speaks with enthusiasm about the opportunities she has enjoyed at Caltech. She has provided a great deal of behind the scenes service to Caltech and her fellow students. Her ability to take on a lot of responsibility, her maturity, her interpersonal skills and her dedication to Caltech make her deserving of the Noland Leadership Award.

To the Caltech community—
students, faculty, staff and
alumni:

Thank you for extending a very warm welcome to the 230 students who attended our Pre-Frosh Weekend program, April 20 through the 23rd.

Your efforts to make the weekend an informative, fun, and successful one are greatly appreciated!

Charlene Liebau
Director of Admissions

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Features

Semana Latina

Javier Mora
Remembered

2

Semana Latina Schedule of Events

Events on the left are held from 12 p.m. to 1 p.m. outside Winnett Student Center.

Monday

Alturas: The music, rhythm and dance that won the World Cup.
Keynote Speech on "Science, Diversity, and Affirmative Action" by Dr. C. Chavez
 7:30 p.m. Beckman Institute Auditorium

Tuesday

Fuego Flamenco: Graceful and sensual artistry from the Motherland.
Movie: "A Place in the World", Argentina, 1992
 7:30 p.m. Baxter Lecture Hall

Wednesday

Inca: Music from the Andes and Puna, 12000 feet above sea level.
Panel: Impact of the Latino Community
 4 p.m. Baxter Lecture Hall

Thursday

Orquesta Viva: Island rhythms
Comedy show: "Culture Clash"
 7:30 p.m. Ramo Auditorium

Friday

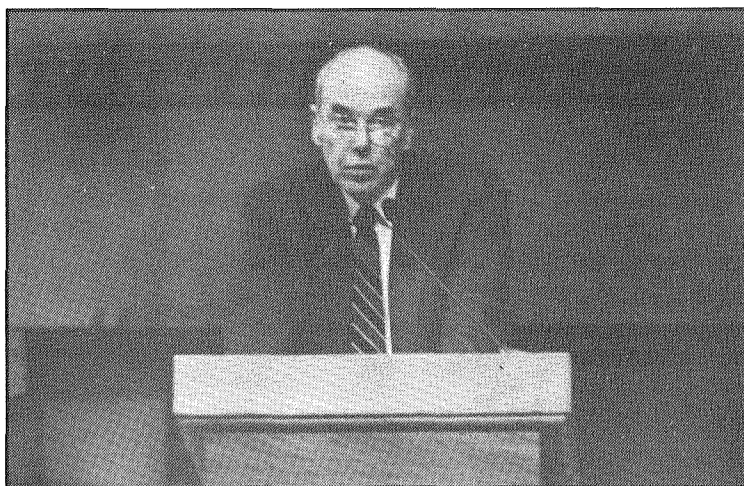
Mariachis & Ballet Folclorico: Mexico's musical traditions.
Art Exhibit by Cinco de Mayo
Contraste Winnett Fiesta Lounge, all day
 5-8 p.m. La Cantina

Saturday

Sabor Latino Party: Dance to the music of Orquesta Viva
 9 p.m. Ricketts and Fleming courtyards

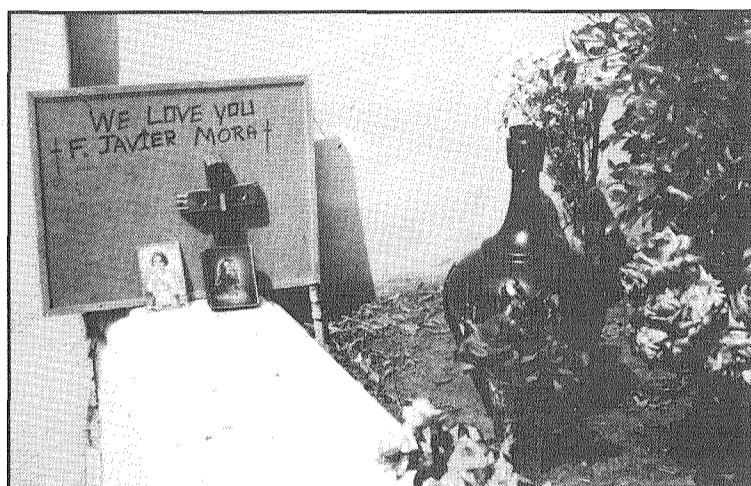
Semana Latina is organized by Club Latino and CLASES, is funded by the Multicultural Task Force through a grant by The James Irvine Foundation, and is co-sponsored by the following Caltech offices: Vice President for Student Affairs, Minority Student Affairs, The Alumni Association, CAPSI, GSC, The Caltech Y, ASCIT, Dean of Graduate Studies, Dean of Students, I.S.P., The Women's Center, and a personal donation from Ricardo Porras, D.C.

We Miss You, Javier...



On Thursday, a diverse representation of the Caltech community gathered to honor the memory of F. Javier Mora. Custodians, professors, staff, and students all joined to share their grief and celebrate Javier's life. Among those giving eulogies were Tom Mannion and Biff Yamazaki from Housing, Father Brian Wilson, ASCIT President Jon McDunn, and IHC Secretary Laura Brady, who described in moving words Javier's helpfulness and compassion toward her when she first came to Caltech. Pictured on the left is Institute President Thomas Everhart.

Outside the Students Activities Center where Javier was senselessly taken away from us, a small shrine stands, dedicated by those who respected him as a man and loved him as a friend. Flowers, a cross, and a picture of Jesus Christ complement a hand-painted sign which reads in simple block text, "WE LOVE YOU F. JAVIER MORA" echoing the sentiments of all of us.



Deadlines for Submission to the Tech

Letters to the Editor — 8 P.M. Monday
 Events and Notices — 8 P.M. Tuesday
 Unsolicited Articles — 8 P.M. Tuesday
 Regular Columns — 11 P.M. Tuesday
 Articles Submissions — 11 P.M. Tuesday
 Photo Submissions — 8 P.M. Wednesday

SOMETHING DIFFERENT AT CALTECH

Capitol Steps
 FRI. & SAT. APRIL 28 / 29, 1995
 8 PM
 Beckman Auditorium
 \$31.00-28.00-25.00

COLEMAN CHAMBER ENSEMBLE COMPETITION WINNERS CONCERT
 SUNDAY, APRIL 30, 1995 / 3:30 PM
 Ramo Auditorium
 \$10.00

TAIKO! TAIKO! TAIKO! San Jose Taiko
 SATURDAY, MAY 6, 1995 / 8 PM
 Beckman Auditorium
 \$25.00 - 22.00 - 15.00

Lagerstrom Chamber Music Concert
MEMBERS OF THE LOS ANGELES CHAMBER ORCHESTRA
 SUN, MAY 7, 1995 / 3:30 PM
 Dabney Lounge
 FREE

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CIT STUDENTS:
 Half-price tickets now on sale for Taiko.
 \$8.00 RUSH tickets now on sale for Capitol Steps; they will go on sale 5/5/95 for Taiko
CIT STAFF / FACULTY:
 Half price TECHTIX now on sale for Capitol Steps.
 \$2.00 off on tickets to Taiko now; half-price TECHTIX go on sale 5/5/95.
 Call the Caltech Ticket Office at x4652

SUMMER WORK-STUDY APPLICATIONS NOW AVAILABLE

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 completed by June 1 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:

- request a Federal Direct Stafford or PLUS loan
- request any other type of adjustment to your 1994-95 award

we strongly encourage you to request a revision by May 1 at 5:00 p.m. All requests should be made in writing and submitted to the Financial Aid Office (mail code 12-63) by this date.

Please contact the Financial Aid Office before May 1 if you have any questions.

Thank you for your cooperation.



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IHC Minutes for April 25, 1995

Present: The IHC, Jon McDunn (off and on), and various candidates for interviews

Meeting begins at 10:52 with Interviews for the Library committee. Abhijit Bhalla is chosen as the representative, with Lin Jia as alternate. Athletics and PE committee, Chris Cary is chosen as rep, Katie Stofer as alternate.

Rob Rickenbrode enters and asks the House Presidents to announce the Christmas in April project in their houses. More information is available through the Y or it is posted in the houses. This Saturday is their big renovation project, please contact Rob or a Y excomm member for details.

Parking along the olive walk is discussed, some people don't like to park in the structure when they'll be on campus for only an hour or so, because they don't feel safe walking to their cars at night, and don't want to call security. We talk about parking for longer periods of time at night (than 1/2 hour).

Tom comments that the purpose of the Advisory committee is to deal with complaints about the quality of life around Tech.

Complaints from the Ath have been issued against some people, especially stacking seniors, and undergraduates bring up their complaints.

The problem with High School students at Tech parties is beaten to death. Advertising on the Olive walk will be stopped, we agree that having to have bouncers is bad, but may be necessary, and we decide to talk to Kim and ask her to have the IHC approve off-campus advertising from now on.

"Personal suicide is a way of killing that wastes a whole lifetime"...Art enlightens the IHC on strange philosophy.

The Grad students wish to add a Dental Plan to the Health Care already provided. A tally of those interested will be gotten from each house. The plan is rumored to cost around \$8 per quarter and we hope it will be optional. We also want to make sure that the UG's aren't supporting grad families.

Brian wants his cushions back.

11:54—Tom Mannion enters and presents an agenda for a few topics:

Pay phones—Each house chose one to keep, the rest will be replaced with campus extensions. One is being kept because

some people don't have access to a long distance number and we'd prefer outsiders to use the pay phones.

Furniture—All houses want new stuff, presidents should stop by the housing office to look at catalogs.

Ruddock frosh party—\$\$ from housing acquired

Laundry machines—the bidding begins on Thursday for a new contractor. In the improved house laundry rooms will be: a sink, combo locked doors, many dryers that work, and better shelving. (Note: shelves are scarce because ditch day is rumored to be tomorrow)

Cable TV—Mannion in charge of the working group, and Adil wins the student appointment to the committee. Probably won't be in by the beginning of next year, but hopefully by winter break.

Memorial service for Javier—Housing is taking care of family, Jon McDunn and Laura Brady are speaking at the service, along with Mannion, a priest and Dr. Everhart.

Housing will be taking care of moths, but they'd like all cereal goods removed to stop breeding. Reimbursement for food can be worked out. That's all for Tom Mannion. He leaves. There was much rejoicing. Not.

It's okay to challenge in 2 raquet sports in the same Disco challenge.

Some tour groups may be biased, PR and admissions are going to be asked to remind their guides not to bias people.

Two football games are scheduled during seniors finals week, the schedule should be revised and moved, so that the practices are pushed back into tennis and the games are earlier.

Ricketts and Blacker are going to replay a game that was forfeited and then played without the consent of one of the teams' athletic managers. Houses are reminded that athletic managers have the final say and don't go around them.

PCDE. Coming soon to a house near you.

Brian wants his cushions back still. Nestor wants a couch back.

Art sincerely apologizes for to Adil at Adil's request.

Meeting adjourned, 12:28 a.m.

Respectably submitted,
Laura Brady
IHC Secretary and Waitress

ASCIT: 4/26/95

Due to the current meeting time of the ASCIT BOD (Wednesday at 4 p.m.), the ASCIT minutes can't be put out in time for the Tech submission. This week's minutes will be out next week.

Highlights of the meeting:

- ⇒ Congratulations to Francisco Gutierrez on becoming the new Tech Business Manager.
 - ⇒ The BOD has decided to change the amount of multihouse funding given to houses per term to \$150/house/term.
 - ⇒ The BOD moved the following resolution: **"THE BOD MUST BE INFORMED OF MULTI-HOUSE FUNDING REQUESTS EITHER IN PERSON OR THROUGH THE SOCIAL DIRECTOR BEFORE THE EVENT TO BE FUNDED."**
 - ⇒ All 5 Tech editors and all 9 BOD members were in the same place at the same time. The chances of this occurring are approximately equal to the chances of Nate Anagnostou walking by the door during the exact moment in which I write this. Hey. What do you know. Hi Nate.
 - ⇒ The BOD has formed a subcommittee to propose bylaw amendments to the BOD about the Inside World. People on the subcommittee are James Honaker, Greg Steiert, Terry Moran, and Shay Chinn. Anyone who wants to contact the committee should mail correspondence to *editors@tech*. The committee met on Thursday and will meet sometime next week.
 - ⇒ Jon McDunn keeps his laundry detergent in SAC 64 to keep it from getting stolen.
 - ⇒ Finally, signups for the appointed offices of Big T Editors, Little T Editors and Business Manager, Totem Editors, and Movies Chairman will be put up either today or on the weekend and will be taken down next Friday. See you next time, folks.
- David Relyea

The Coffeehouse Marathon last weekend was a popular success! The winning jelly bean guess was Brian Bircumshaw who guessed 1,750 jelly beans. He gets to take home all 1,796 jelly beans. The winners of the raffle are:

- Grand:** Wei-Hwa Huang
- 1st:** Jacob Isaacson
- 2nd:** Tammy Roust
- 3rd:** Jake Holland
- 4th:** Kathleen Gallagher
- 5th:** Alan McConchie
- 6th:** Myfanwy Callahan
- Free Cookie:**
Danish
Matt Tiscareno

Please claim your prize if you haven't done so yet. Also, the Coffeehouse is still selling stylish T-shirts and water bottles! Get them before they're all gone!

YNEWS

by Topher Hunter

It's a quiet week at the Caltech Y. This Friday, come by Winnett Quad and listen to the Jazz sounds of the Cain Enablers at noon.

Also today, come by the Y to help work on Christmas in April, a local Pasadena volunteer organization. They work to renovate low-income housing in the Pasadena area, and they need volunteers to help with all levels of the work, from yard cleaning to carpentry and electrical installation. It's extremely rewarding work to help the Pasadena area, so if you're interested, drop by!

Y Mountain Biking trips go out every Tuesday and Wednesday afternoon into the local area. Riders of all experience levels are welcome. Call Chris at x6164 for details.

That's it for this week, folks. Remember: only a few weeks left to summer!

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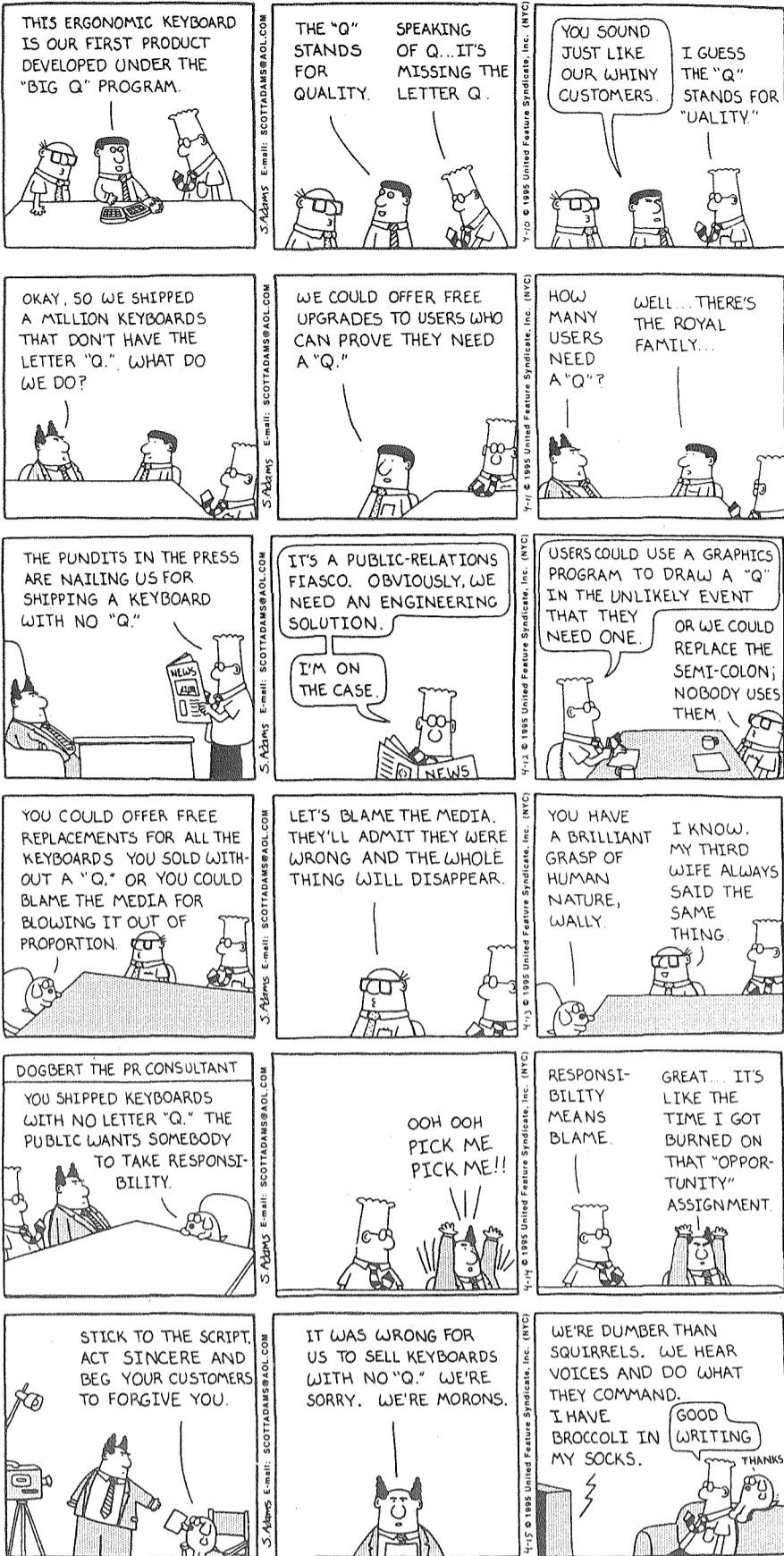
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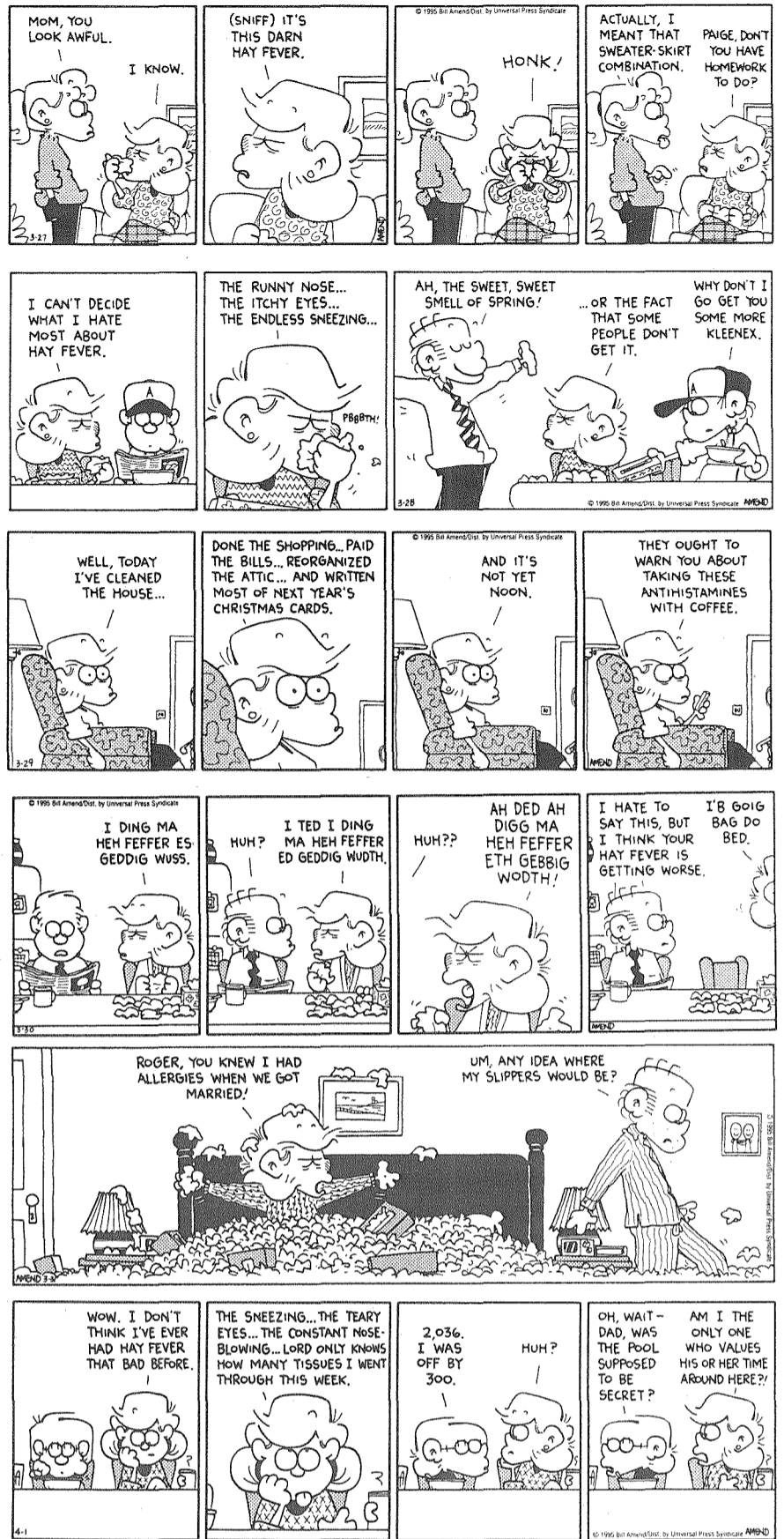
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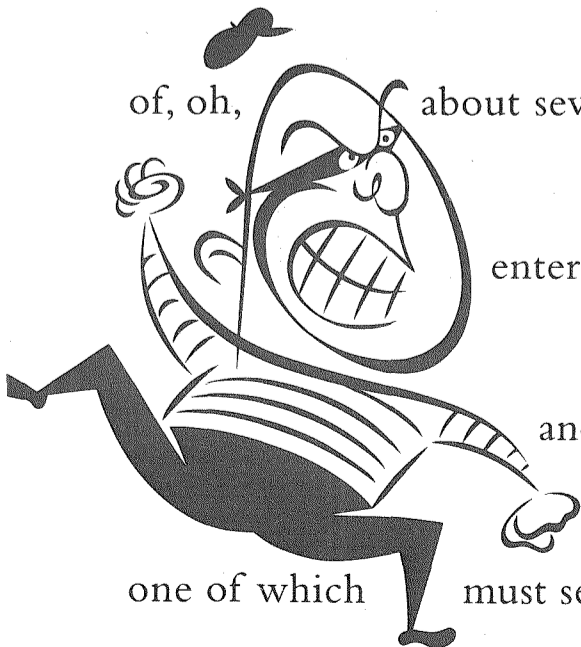
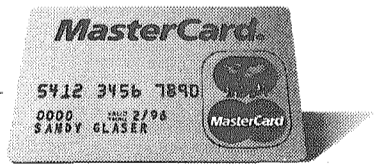
angry, panic some more. Then you call and cancel it. Now the thief is in possession

of, oh, about seven cents worth of stolen plastic. (Maybe he can use it as a coaster when he

entertains at the hideout.) So relax. You only have to pay for stuff you bought,

and you can get a new card the next day.* It'll be accepted at millions of places,

one of which must sell wallets. MasterCard. It's more than a credit card. It's smart money.™



THE MÖBIUS STRIP

TWISTED IDEAS WITH A STRAIGHT EDGE

by Robert Rossi

1. Most of you have probably forgotten, but I've heard a few heated debates on this so I'd better follow through. Why not close the pop bottle like Mommy said? Consider a half-full 2-liter soda bottle that is in your fridge. You take it out, pour yourself a glass, and put the bottle on the table. The gas in the bottle above the liquid was cool, but when you poured it was partly replaced with warm air. Letting it sit out will cause the air in the bottle to warm up even more. Now you have to leave, so you pour a little more, put the cap on tight, and put the bottle back in the fridge. The gas above the liquid cools, and since it is restricted to a fixed volume, the pressure in the bottle drops. This has a significant effect on the effective solubility of the carbon dioxide gas in the soda, which is what makes it fizzy. In response to the lower pressure, CO₂ leaves the liquid and enters the gas phase, making your pop go flat. In contrast, if you had put the lid on slightly loose, so that the little grooves in the threads on the cap could let air into and out of the bottle, air would be drawn into the bottle from the fridge when the pressure dropped, so the pop would not have been "flattened." For the analytical among you, yes, the loose cap does allow diffusion of CO₂ out of the bottle after thermal equilibration, but only very slowly. This effect becomes most

important as the bottle empties and the amount of "empty space" inside the bottle increases. Temperature is also a significant factor in the solubility of gases, which is why pop bubbles a lot as it warms up but also goes flat really fast when it is warm. Also, acidic liquids dissolve more CO₂ than neutral ones do; so sparkling mineral water goes flat faster than lemon-lime soda. (The CO₂ is "buffered" by carbonic acid, H₂CO₃.) Finally, a very clean container produces far fewer bubbles than a dirty one under the same conditions. So if you and your friend argue about which detergent works better, use the soda test: the more bubbles, the more scratches, dust, or microscopic goo inside a glass. Enough already, you're bored of reading about pop. Let me disclaim that the effectiveness and significance of not closing a bottle tightly hinges largely on your use pattern for soda bottles; I personally find that this keeps my pop noticeably fizzier, though!

2. Is it soda? Is it pop? No matter where you are from, you probably found it slightly annoying that I used the words "soda" and "pop" interchangeably up above. You probably grew up using one but not the other. In some parts of Texas they use "Coke" as the generic term! (What flavor of Coke do you want? Orange.) This is one of many examples of regional U.S. dialects. I'm new to California, so I'm still learning the "dia-

lects" and I can't give you any local examples. But I can give you some Minnesota examples so you see what I'm talking about. There's water fountains and bubblers; traffic lights, stop lights, and stop-and-go lights (the latter is pretty much limited to the Lake Winnebago area of Wisconsin); and you can do the wash, wush, or the warsh. You can tell someone is from Canada, especially Ontario, the second they say "out." It's usually pretty amusing, once you think of it, the little context clues you use to make your best guess about where people are

"Choose a job you love, and you will never have to work a day in your life."
— Confucius

from. It is a form of prejudice, really, but I think it's fair to say that everyone's subconscious mind does it to one extent or another. If you have any interesting regional anachronisms you want to share, e-mail them to rossi@cco and I'll try to collect the best ones in the next Mobius Strip.

3. On a more somber note, you are probably aware of the shooting incident that occurred on campus last week. I want to share something with you that I think underlines how safe Caltech generally is. This is not to suggest that

we can let down our guard against crime and danger once we get on campus, but we should be thankful for the measure of safety we do enjoy here. I was attending my first Tech meeting, in the SAC, when the shooting happened. It was so close that I'm sure we all heard the gunshots. One of the other people present remarked afterwards that the shooting explained the three bangs she heard. I can't remember having heard any bangs at all, though. On the other hand, when I heard loud shouting in the hallway, and it didn't stop after about two seconds, I ran out to see what was wrong. I thought someone was being or had been raped; I have recently returned from Fiji, and before that I was in Madison, WI, where rape is something that happens "in your neighborhood." When I saw a woman screaming at two females, though, I thought everything was Ok; I figured they were just mad at each other about something. It was at that instant that several other people from the Tech meeting came out, not looking terribly worried until they saw the woman screaming and waving her hands. Their response was the reverse of my own, and they clearly thought something was terribly wrong as they ran to find out what it was. Unfortunately they were right. But I think this reflects how serene Caltech must generally be, compared to my recent residences their response was incredibly different from my own, and based on a different set of expectations about the sort of things that are likely to happen in their surroundings.

4. "Should I go to grad school?" Ask this question 50 times and you will get 150 answers. Here's mine. My advice to you is to attend graduate school if and only if you WANT to learn more about a given topic than you can with a bachelor's degree. If you find your Ph.D. topic intellectually stimulating, interesting, yes, even fun, then graduate school is for you. It will be between four and seven years of hard but satisfying work that you'll be glad you did. You'll generally like doing it, and you'll be eager to pursue your new job prospects when you finish. On the other hand, going to graduate school because you think your B.S. GPA is really good and you can get in somewhere respected or because you want more money is generally a mistake. You'll hate the years of Ph.D. research, turn red with rage at the 4-7 year's wages you gave up, and then find that the only jobs available to you entail more of the same stuff you are sick and tired of already. Building a career on a B.S. is *not* a bad idea if you enjoy doing the sort of work and thinking the sort of thoughts B.S. career people are expected to do. If you are unsure, get in the job market and then after five years ask yourself whether you will be happy doing your job when you turn 50. If you are mentally bored or cut out of the job you want, go to graduate school or start your own company. If you want to switch fields, get a second bachelor's degree. But if you'll still like your job at 50, count your blessings and stick with it! You'll be one of the few!

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April 5
Theft

A CPU Powerbook Apple Computer, valued at \$2,656, was taken from the first floor of the C.E.S. Person reporting placed 6 laptop computers on the first floor of the C.E.S. building at 8:00 a.m. Upon delivery of those items, at 1:00 p.m., one was discovered missing. Pasadena Police Department notified.

April 6
Off Campus Armed Robbery

Victim was walking away from his vehicle, when he was approached by a male wearing a black, full face mask. The victim was forced to return to his vehicle at gun point. Suspect demanded victims keys and wallet; victim complied. Suspect then exited the parking lot in victim's car. Victim was not harmed.

April 9
Suspicious Person

Male, Black, 30's, 6'0", 200+ lbs, bald head, brown eyes with a dark complexion, wearing a light colored shirt, blue jeans, was reported to be looking into windows at the Catalina Complex. Subject continued to look into the window until he noticed that he was being watched. The subject then exited on a blue-green mountain bike south bound. Security responded, subject no longer in the area.

April 10
Theft

Black, Liz Claiborne purse, and contents, valued at \$155, was taken from room 154, in the Arms building. Vic-

tim left purse in an unlock office at 5:00 p.m. for approximately 15 minutes. Victim notice that the purse was missing at 6:00 p.m.

April 14
Grand Theft Auto

A 1986, white, Nissan Pick-up truck valued at \$2,500; AM/FM cassette radio and car equalizer, valued at \$175, was taken from the West Wilson parking lot. Victim parked his vehicle on the third row on the north side of the parking lot on April 13, at 10:30 p.m. Upon returning on April 14, at 8:15 p.m., discovered vehicle missing.

April 16
Vandalism

During the early morning hours, security responded to several incidents of vandalism in the Blacker and Ricketts houses. The vandalism included eggs thrown about the walls and carpet of the hallways, the discharge of a fire extinguisher, and graffiti on walls, doors, mirrors and two pinball machines in the Ricketts' game room.

Suspicious Person

At 2:05 a.m., security responded to a report of a group of male youths standing around a car and possibly writing on the walls. Security observed the suspect writing on the wall with his finger, using dirt as ink. After further investigation, it was discovered that the group had been drinking at the parties in the South Undergraduate Houses. Pasadena Police was notified; one subject was arrested for being under the influence. None of the subjects involved were affiliated with Caltech.

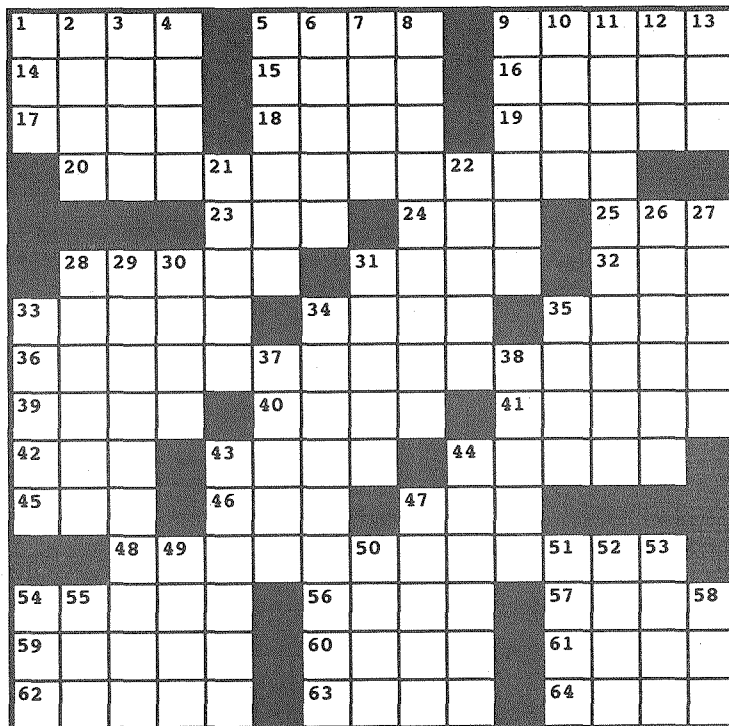
Noise Complaint

At 2:55 a.m., security received a report of a female screaming in the Ricketts courtyard. Upon arrival, suspect appear to be under the influence, and was being taken away by associates. Subject was not affiliated with Caltech.

Crossword - "By Virtue Of"

ACROSS

1. Agreement
5. Party staple
9. The Great Muppet
14. Her love was Narcissus
15. Wei-Hwa's voice
16. Man from the North?
17. Orc peasant?
18. Branch Davidians, e.g.
19. Soft Italian instrument?
20. Shirley MacLaine and Ricardo Montalban movie
23. Dog doc
24. Draw
25. Guthrie of X-Force
28. Hot and flaming
31. "The ties that ___"
32. B fore
33. Cleanest reindeer?
34. Rana
35. A long in the dark?
36. Forever the optimist
39. Who some programs are friendly with
40. Montana target
41. Owl utterings
42. Tri
43. Recitation
44. Movie time units
45. Time period
46. Caltech-founded employer; Wei-Hwa worked there two years ago
47. Ubu's command
48. Accepts without question
54. Hearts
56. Billy is one
57. Place for cats and fiddlers
59. Costeau, e.g.
60. Site in Dublin
61. See
62. Attire
63. Kernel
64. Vertex



DOWN

1. Zest
2. Hot shots
3. ___ Yun Fat, in *The Killer*
4. When the time is exactly
5. Oven-wetted
6. Choose
7. Engrave
8. Caltech Housing traditions
9. Made a facsimile
10. Stood upon
11. Pre-kindergarten
12. Hitler article
13. Speedwagon
21. Whom Argentina cries for
22. Phone noises
26. Fosters
27. Spreads out to
28. More lenient
29. "Do!", e.g.
30. Jerk the wheel
31. Wife
33. Ladder complement
34. Mitty's thoughts
35. Horn type
37. Crystal container
38. Angle symbol
43. Who dead people meet
44. Shot
47. Nighttime nuisance
49. Mars
50. Dog of Jon
51. Ending for and or flat
52. African republic
53. Last round in hearts
54. Put together
55. Tree type
58. Bill contents

Games & Puzzles

Danger!

by Wei-Hwa Huang

Answer: ON APRIL 25, THIS PAST TUESDAY, THIS NOTABLE PERSON PASSED AWAY AT THE AGE OF 70. HE WAS THE HOST OF JEOPARDY! FROM 1964 TO 1975.

Question: WHO IS ART FLEMING?

In memory of his death, a few questions (answers, really) about the show. Send your solutions to gp@tech before next Tues-

day. The person who answers the highest cash total in questions wins a \$10 check. And don't forget to phrase your answer in the form of a question.

Jeopardy!

Category: *The Show*

\$100 Answer: On the current *Jeopardy!* set, the background turns from blue to this color when entering Double Jeopardy!

\$200 Answer: One of the two game shows other than *Jeopardy!* that is still syndicated in the

United States as of this day.

\$300 Answer: This is the name of *Jeopardy!*'s annual competition for veteran winners.

\$400 Answer: The word "jeopardy" comes from the French phrase "jeu pardi," meaning a game with this.

\$500 Answer: Instead of the simple name "Wine," *Jeopardy!* uses this label for the category.

Double Jeopardy!

Category: *The People*

\$200 Answer: This once-host of "Classic Concentration" is the current host of *Jeopardy!*

\$400 Answer: Art Fleming's final appearance in front of a *Jeopardy!* board was in a music video with

this popular singer.

\$600 Answer: The idea for *Jeopardy!* came when producer Merv Griffin was riding this with his wife.

\$800 Answer: Art Fleming appeared in this movie with the appropriate quote, "You're putting all these passengers in *Jeopardy!*"

\$1000 Answer: Art Fleming died of cancer of this body part, which comes from the Greek for "all flesh."

And, your **Final Jeopardy** answer, in the category *Math*, is:

THIS IS THE HIGHEST TOTAL A CONTESTANT CAN WIN IN A SINGLE GAME OF JEOPARDY!

Contest Results

A disappointing contest indeed. I only received one submission from Glen Herrmannsfeldt, a regular submitter. He receives a \$10 check for noting an error notice in the New York Times when they had printed "poisonous snack" instead of "poisonous snake." Oh dear!

Here's a good one:

"Mrs. Jones was involved in an accident yesterday and is recovering under the car of her doctor."

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SPORTS

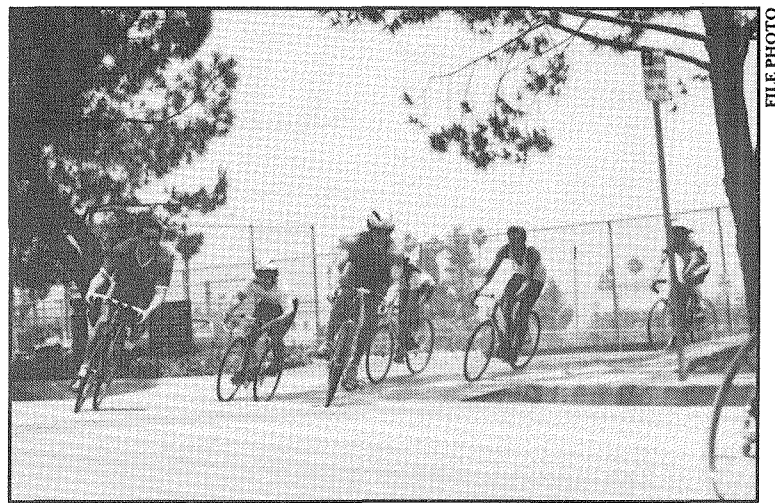
Bike Commute Day

Caltech Cyclo-Commuters will be holding their annual bike rally and raffle drawing from Noon to 1:00 p.m. on Thursday, May 4 on the north side of Winnett (in front of Chandler Dining Hall). This will be a part of the statewide Bike Commute Day activities being coordinated by the California Bicycle Coalition. We are encouraging everyone with a bike to bring it to our Rally, even if you don't normally ride it to CIT. We plan to take a group photo of everyone on

their bikes, and bringing a bike by automatically qualifies you for both our raffle drawing and City and Statewide drawings for new bikes and other related prizes. Free refreshments will be provided for anyone with a bike, and we will be holding an "Ugly Bike Contest" to demonstrate that just about anything on two wheels can qualify as a perfectly serviceable commuter (with special prizes for "Oldest", "Heaviest", and

"Most Aesthetically Challenged" categories). Registration forms for the drawings can be obtained at the Rally before 12:15 p.m., or beforehand from Riley Geary (252-21, x6946, riley@bombay.gps) or Peggy Thorton (111-6, x3203, hrdijt@hr).

Experienced cyclists might also want to check out the Foothill Freeway Rush-Hour Challenge Match the same day (May 4). Further info on this can also be obtained from Riley Geary as above.



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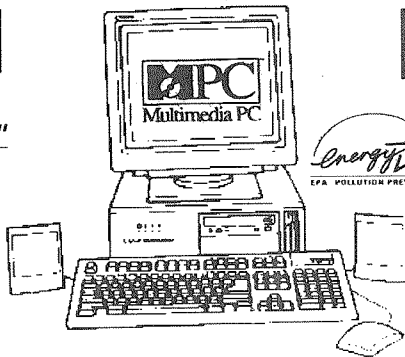
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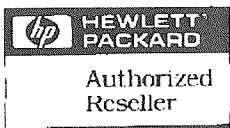
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There are several positions open for summer employment at the Big Bear Solar Observatory. The jobs involve solar telescope operation, film processing, electronics work, computer programming, etc. Free housing at Big Bear is provided, and cooking facilities are available. There are recreational facilities (boats, etc.) as well. Some astronomy, physics, computer science, or electronics would be useful. Applications are available in 264 West Bridge, or can be obtained by calling x4011.

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Notices

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.

Sharyn Slavin, Assistant Vice President for Student Affairs, and Stan Borodinsky, Student Affairs Administrator, invite you to stop by the Coffeehouse on Friday afternoons from 2 to 4 p.m. to talk with them. All students are welcome, and free drinks will be available. Please drop by and get to know Sharyn and Stan. They will be happy to answer questions or provide assistance.

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

beginning on Tuesday, May 9th, 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 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

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Announcements

♦ denotes a new announcement.

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 Caltech YNoon Concert series will feature The Cain Enablers at 12 noon today, April 28th, in the Winnett Quad.

♦Associate professor of civil engineering, Dr. John Hall will be giving a Earnest C. Watson Caltech lecture entitled "Tall Buildings, Bad Welds, Large Earthquake, Big Problem" on Wednesday, May 10th, at 8 p.m. in the Beckman Auditorium.

♦The next movie to screen in the German film series is *Tadellöser & Wolff* (1975) at 7:30 p.m. on Thursday, May 4th, in Baxter Lecture Hall. This film features English subtitles and is presented free of charge. For more information, please call 395-3610.

The Capitol Steps will perform on Friday and Saturday, April 28th and 29th, at 8 p.m. in the Beckman Auditorium. A group of current and former Congressional staffers who first began performing their musical satire as entertainment for a Capitol Hill office party, The Capitol Steps have recorded a number of albums including "Workin' Nine to Ten," "Sheik, Rattle and Roll" and "The Joy of Sax." Ticket will be priced from \$25.00 to \$31.00, with \$8.00 tickets being sold one-half hour before the performance subject to availability.

Led by Jim Dolan, Research Geologist at USC, the Caltech Management Association will be hosting a Field Trip to the Active Sights in the Los Angeles Region on Saturday, May 6th from 8:00 a.m. to 4:30 p.m. Field trip participants will have the opportunity during the trip to examine updated research results and paleoseismologic trench data on both well known fault lines like the Santa Monica and Hollywood faults as well as more detailed information on previously unrecognized Mac Arthur Park and Echo Park Coyote Pass faults. Paleoseismologic data from these faults may have important implications for understanding the earthquake behavior of the large buried thrust faults that underlie most of metropolitan Los Angeles. The trip will leave from and return to JPL, and will cost \$25.00, with a box lunch included. Only 25 participants may join in, and all reservations are due by Today, April 28th. All interested in participating are asked to call extension 6382 for more

information.

The Coleman Chamber Ensemble Competition Winners Concert will be held in Sunday, April 30th at 3:30 p.m. in the Ramo Auditorium. Winners from four categories of the competition will perform. Fifty free tickets to this concert will be available to Caltech Students with I.D. from the Caltech ticket Office (x4652). Tickets are regularly priced at \$10.00 a piece.

The Caltech Guitar Program presents An Evening of Baroque Music with The Huntington Ensemble on Sunday, April 30th at 7:00 p.m. in the Dabney lounge. The program for this free concert will include works by Handel, Vivaldi, Boismortier, and others.

The Friends of Caltech Libraries (FOCAL) Book Drive will be conducted throughout the month of April. Any and all kinds of books, records, and tapes are being sought in preparation for the Friends' Jumbo "Pre-Owned" Book Sale (an annual fund-raiser sponsored by the group), which will be held this year on Friday, May 5th. Please bring your donations to Millikan Library (first floor) during weekday business hours.

The Pasadena Symphony will be holding a free concert Saturday, May 6th, at 10 a.m. at the Pasadena Civic Auditorium (300 E. Green Street, Pasadena). The program will include Beethoven's Piano Concerto No.4 and Tchaikovsky Symphony No. 4. Tickets are available through the Pasadena Civic Auditorium Box Office at phone 449-7360.

The male and female drummers of San Jose Taiko create a contemporary repertoire by fusing traditional Japanese, Latin, Brazilian, and African rhythms in their Saturday, May 6th performance "Taiko! Taiko! Taiko!" Starting at 8 p.m. in the Beckman Auditorium, prices will range from \$19.00 to \$25.00 with student rush tickets going on sale half an hour before the performance begins at \$8.00 depending on availability.

Members of the Los Angeles Chamber Orchestra will be performing in the Dabney Lounge on Sunday, May 7th, at 3:30 p.m. in a Paco A. Lagerstrom Chamber Music Concert. This free concert will include works by Mozart, Beethoven, Dohnanyi, and Handel, as well as the premiere of Tania French's "Ancient Echoes."

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

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 color fully illustrated, and their individual importance will be discussed.

Club Announcements

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@pomp.caltech.edu phone: x6994, 683-9102).

The Caltech Ballroom Dance Club offers free beginning classes. Classes are scheduled for every Wednesday at 7:00 p.m. in Winnett Lounge. On Tuesday, May 3rd, we will continue learning the East Coast swing. People are welcome to join the classes at any time, and no experience is required. Come with or without a partner. For more information, contact Bob Herman at rherman@arms.gps.caltech.edu, or at 393-4720. The Caltech Ballroom Dance Club also is holding Friday beginning and intermediate west coast swing classes, continuing this Friday, April 28th in Winnett Lounge. Intermediate class is from 7-8:20 p.m., and beginning class is 8:30-9:45 p.m. Taught by professional instructor Enio Cordoba, no experience is needed for the beginning class, six months prior dance experience is recommended for the intermediate class. No partner is required. Register at the door. For more information, please contact Bob Herman at rherman@arms.gps.caltech.edu, or at 393-4720.

Internships and Competitions

Polygram Records is currently seeking college interns for this summer. The internship benefits include prospective college credit, work experience, and free CD's as well as the opportunity for future full-time employment. All prospective students are asked to call Karen at Polygram, (310) 996-7283

IBM Research Division solicits proposals from students interested in working on computational Science Projects each summer starting this year. Prospective candidates should be students within one year of their Ph.D. and beyond. The projects can be in any of a wide range of areas such as Astrophysics, Biology, Chemistry, Computer Science, Engineering, geology, Mathematics and Physics. The deadline for applications is May 5th for the summer of 1995. Apply through e-mail to epyite@watson.ibm.com.

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 finan-

cial 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.

1995-96 Merit Award applications are now available at the Financial Aid Office. Current Freshman, Sophomores, and Juniors are eligible to apply. Merit Awards are based on outstanding scholastic achievement as demonstrated by exceptional performance in formal classes and/or in independent research, and not on financial need. The deadline for submitting completed applications to the Financial Aid Office is 5:00 p.m. on April 28, 1995.

FIND/SVP is offering eight scholarships totaling \$25,000. Under the Tools for The Future Scholarship Program, eligible students can apply for two \$5,000 awards with 40 hours of FIND/SVP research services and a paid summer internship; or for six \$2,500 awards. To be eligible for these awards, in the Fall of 1995 you must be in an undergraduate or master's degree program in business, library science, computer technology, information studies, market research, or journalism/communications. You must also be a legal resident of the U.S. Completed applications and all supporting documents are due no later than April 28, 1995.

JCPenney is awarding two \$10,000 scholarships to students in the Southwest region. To be eligible, applicants must be no older than 21 as of April 29, 1995, must be a current student in good standing, must be a U.S. Citizen, and must be available for a local "finalists interview" at the store where their application was submitted. Other details of the scholarship are available on the application form, which must be obtained at, and returned to, a JCPenney's store. Everyone submitting a thorough and complete application will receive a free t-shirt. Applications are due at JCPenney (in either the junior's or young men's departments) on April 29, 1995.

Orville Redenbacher's 1995-96 Second Start Scholarship Program is offering twenty-five \$1,000 scholarships to students who are age 30 or older, enrolled, or who will be enrolled, in a degree program part-time or full-time on an undergraduate or graduate level. Applications are judged on the following 3 criteria, ranked in order of significance: 1. Entrepreneurial spirit, as reflected in the applicants 500-word essay, 2. Financial need, and 3. Academic performance, if applicable. Applications must be postmarked by May 1, 1995.

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 have already come to the Financial Aid Office to pick up a COHEAO postcard and submitted it by April 1, 1995. The complete application is due to COHEAO on June 1, 1995.

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