

Ref, we could put four seconds back on the clock and do the play over.
Hey Jack, the light switch is over on the telephone pole.

THE CALIFORNIA TECH

They're sticking good, they found the hard mud, they're going strong at 27 issues. This could be a you know what. No need for the laser sight on this one.

Volume XCI, Number 12

Pasadena, California

January 12, 1990



Today, hair is as important as clothes when interviewing for a job or climbing the corporate ladder.

Pasadena Light Rail

by Chris Dunn

Caltech students will be riding to the beach by rail before the end of the century if the plans of the L.A. County Transportation Committee are adopted. Colorful maps promise a county webbed by rail lines connecting Pasadena to Downtown L.A., LAX, Long Beach, and other focal points of the region.

Financing the project is Proposition A, the 1980 ballot measure augmenting the sales tax from 6% to 6.5%, with the \$400 million of added revenue reserved for enhancement of the transit system.

King Tribute

by Hall Daily

Although the federal holiday commemorating the birthday of Dr. Martin Luther King, Jr., is not a school holiday, the Institute will present a program commemorating the impact of the slain civil rights leader's life on Monday, January 15, 1990 at 1:00 pm. The event in Ramo Auditorium is open to the entire Caltech community.

Caltech president Thomas Everhart will introduce the speakers for the first part of this two-hour program. First, Dr. John Slaughter, president of Occidental College, will address the continuing impact of King's leadership in the civil rights struggle in America during the '50s and '60s. Following Slaughter will be Dr. J. Morgan Kousser, professor of history and social science at Caltech. He will discuss the Voting Rights Act and litigation associated with it since King's assassination in 1968.

The second portion of the program will be a special tribute to King by Joshua Natural Sound, a four-member jazz band. This performance will include the music of John Coltrane, with dramatic excerpts of King's dynamic writings and speeches about non-violence, brotherhood, and peace. The event concludes with a recitation of the legendary "I Have A Dream" speech.

Students, faculty and staff are welcome to attend the entire event or any part of it.

Already under construction are a Long Beach-Downtown light rail line, which will initiate service next summer, and a Union Station-Hollywood metro line, which is scheduled to open before 1993.

For residents of Pasadena, the proposed Highland Park Alignment would advance along the Pasadena Freeway, then aim north parallel to the Arroyo Parkway, and finally travel elevated on Interstate 210. Much of the route will be traversed on Santa Fe tracks to be acquired after approval of the project.

The electric trains (powered by coal-burning plants, however) will alleviate air pollution by replacing thousands of automobiles. The modern trains are not as loud as their predecessors; nevertheless, sound barriers will be installed in residential areas to curb noise pollution.

The greatest portion of the \$1.5 billion project consists of subway tunnels under Downtown and costly stations throughout. A handful of these expensive stations will be within a shuttle ride of Caltech; the closest one will lie just east of Hill Ave.

Although voters defeated subway proposals several times before 1980, the LACTC claims that Prop A justifies the underground lines.

Protest against the project mainly stems from the exorbitant costs of construction and operation (fares will be heavily subsidized) and from unpopular displacements. For example, at the Jan. 6 public conference in Pasadena, Richard Binder, general manager of Philippe the Original, produced an eight thousand signature petition to force the tracks to avoid the eighty-year-old restaurant, which is slated for demolition if one alignment is accepted.

Among the alternatives to the rail project are the \$1.5 billion completion of the 710 Freeway through South Pasadena, and the jitney, a ten-seat car that could be owned and operated privately on existing surface streets.

Eventually, if demand for the system compels expansion, busways might be converted to rail lines and new tracks could be laid through areas already under study.

Israeli Conflict at Caltech

by Lindee Goh

"The Arabs of Israel are the reality of the worst nightmare imaginable for the liberal Jews of Israel (and the world) . . . The Arab birth rate today is enormous. The mad Jew pays from National Insurance for each Arab baby born. . . There is no "Palestine." It is the Land of Israel. . . It [Israel] belongs to the Jewish people. . . Jaffa [city in Israel] crawls with Arabs who live among the Jews and who destroy Jewish girls."

These are some lines from some of the writings of Rabbi Meir Kahane, the leader of the controversial Kach (Hebrew for "thus" or "this is the way") movement. David Braverman, west-coast coordinator of Kach international, and his brother were invited by Caltech student Eugene Reyzer to speak at the Caltech Y about Ka-

hane's ideas on "the matter of Jewish survival of Israel" on Jan. 10, Wednesday. Around fifteen people, Jews and non-Jews alike, turned up to watch a Kach propaganda tape ("Kahane is the only man who speaks the truth [concerning the Arab-Israeli conflict in Israel] and this is the movement") and participated in a rousing question-and-answer session afterwards, with the two brothers defending Kahane's views against some very pointed questions raised by the students.

Kahane proposes the immediate implementation in Israel of a four-year program run by a single-party national emergency government that includes: "putting an end to the Arab uprising with all means that the army deems necessary. This will include automatic and compulsory expulsions of law-violators and their families, the free use of weapons against stone-throwers

and other attackers of Israelis, as well as permission for Jewish civilians travelling in the territories and under attack, to use their weapons freely in the same manner as soldiers", transferring all Arabs out of Israel with compensation for property (by force if necessary) except those Arabs who are willing to give up all political rights (they will not be citizens, will not vote, nor sit in the Israeli parliament) as "they recognize Israel as the state of the Jewish people", creating a capitalist Israeli state, and encouraging a more Zionist or religiously-oriented state education.

The Kach movement as a political party is banned in Israel and Kahane, himself, is banned from public speaking in Israel. The movement is considered one of the most radical groups in view of their solution to the turmoil in Israel today.

Student/Faculty Conference

by Sonny Arcilla and Maneesh Sahani

Students and faculty members are being asked to serve on a panel as part of the first session of a Student/Faculty Conference sponsored by the Caltech Y and the Office of the Dean of Students at noon on February 16.

Open to all members of the Caltech community, this first session will focus on an issue of increasing importance: diversity. By diversity is meant such topics as the increasing number of women students on campus, the comfort level of minorities and women on a predominantly white male campus, affirmative action in admissions and faculty recruitment, sexual harassment, minority representation, in the student body and faculty, integration of international students, and graduate-undergraduate relations.

The panel will initiate discussion by presenting a brief introduction representing the various viewpoints around campus. Members of this panel will then mediate open discussions on the subject and afterwards summarize the proceedings. Both the initial presentations and the summary should appear in the *Tech*.

IF YOU ARE INTERESTED in being considered as a member

ASCIT Elections

Nominations for ASCIT President and ASCIT Vice President/Boc Chairman are open from Wednesday the tenth through Tuesday the sixteenth at 5PM.

Anyone wishing to be entered on the ballot should sign his or her name on the sign up sheet at the MOSH's office and send a written intent of candidacy to Pamela Katz Rosten at 1-60 by 5PM Tuesday the sixteenth.

Candidates are advised to prepare a typewritten statement for the *California Tech* by Wednesday the seventeenth. Candidates may also submit a photo with the statement.

Election for ASCIT President and Vice President will be held on Monday, January 22.

Nominations for other offices will open January 24. Watch for flyers on the time and location of the presidential debate, so you can get to know the candidates.

of the panel, submit a brief (less than one page) essay on "diversity" (containing not only your own views on the topic, but what you perceive as other views held on campus) to the Caltech Y by January 17.

The first session will be followed by a second to be held on March 2. Each will be held at a central, yet-to-be determined location and last until 2 p.m. or longer if there is sufficient interest. The second session will be either a continuation of the first session or will deal with various aspects of the Honor Code.

The first half-hour of the forum will be devoted to presentations of community sentiment about the issue(s). The floor will then be opened to all attendees for a question-and-response period.

The plan for these meetings came about as a result of a focus group comprised of students, faculty members, and administration. It first met on January 4 to identify and prioritize key issues of concern on campus, and to determine an appropriate format for discussing these issues.

The major issues identified by

the focus group were the honor system (especially its application to non-academic areas), academic support, diversity, the house system, and modes of communication between various groups.

As such, it is envisioned that at least one session will be held to discuss each of these topics, but the present format for the ongoing conference was chosen to allow ample flexibility for any issues that arise out of earlier sessions to be covered in later ones. In fact, one of the goals of the first two sessions will be to determine whether or not this is the best format to use in future sessions. The format will be adjusted if it is not successful in the initial meetings.

The first Caltech Student/Faculty Conference was a two-day event held at JPL in 1980. The next two were in 1983 and 1986, but were held on Saturday only. Apparent lack of student interest prevented there being a similar conference last year.

This year, however, increasing tension and controversy has sparked the need for augmented communication between students, faculty, and administration.

CRIME AND INCIDENT BEAT

- 1-5 At 2:25, a grad student working in Church Lab heard an unnerving sound and went to discover that the west Altes door's window had been shattered. All available Caltech security officers responded and searched Altes, Church, Kerckhoff, and Crellin, but their efforts proved fruitless.
- 1-5 Two black males were observed by Catalina III residents to be selling candy and soliciting money. Fearless security officers responded and accosted the suspects. The two had a permit to sell candy for the Youth Development Foundation, however security informed them that they required official permission to sell candy on campus. They left the grounds as advised by security.
- 1-6 A bike locked to a bike rack on the north side of Church Lab was stolen.
- 1-6 The body of a Blacker Australian female frosh was found badly mangled in her room. Police traced the body's outline on the floor and left with but one clue: the alleged assailant is known simply as "The Butcher".
- 1-8 A car in the Lura parking lot was forced open; the ignition switch had been tampered with, but was still operational. Further investigation revealed the vehicle registration had been taken from the glove box.
- 1-9 The left rear window of a car parked in the Del Mar parking lot was smashed. The removable stereo had been removed.
- 1-9 A security officer observed seven youth between 13 and 19 years old skateboarding east of Beckman towards the Court of Man. The Villians on Wheels were advised of institute policy regarding trespassers and were escorted off campus.

Total dollar value stolen this week: \$600.

LETTERS

Strictly Previews with Varoujan Gorgian

To the Editors:
Jim Kirby's letter of Jan. 5 suggested that we abandon the exploration of space and the search for extraterrestrial life, in order to solve our own planet's problems. I admire his concern for life on Earth, but suspect that abandoning these goals would be among the worst things we could do.

With a world population reaching 6 billion in 1997, and growing at a rate of nearly a billion per decade, we desperately need new resources before we strip this planet bare. The Moon, asteroids, comets, and Mars have massive resources waiting to be harvested without endangering our own ecology.

He worries quite properly about our ozone hole, but the main reason we know so much about our own atmosphere is from surveying it by satellites, and by studying the other planets. (The greenhouse effect is far easier to study on Venus than Earth, where water and biology complicate its detection enormously.)

And if the search for intelligent life on other worlds is ever successful, humanity will be forced to recognize that the "vast" differences between human cultures are trivial compared with those of other beings, reducing international tensions. Furthermore, civilizations may have long ago solved the problems that threaten us today. Their solutions could be right here at this very moment, awaiting someone tuning to the right radio frequency with sensitive enough equipment.

The 1% of our government's budget spent on space could be the best investment we've ever made.

—Tom McDonough

by Varoujan Gorgian
Star Trek VI is once again back on the boards at Paramount. Though earlier they had indicated that they would not be willing to produce another *Star Trek* movie, they apparently reassessed the value of their property and decided that it would be worthwhile to do more *Star Trek* movies. But the news is not all good. Seeing that the most successful *Trek* until now was the humorous *Star Trek IV* and that the main actors are getting old, some suggestions have been made that a comedic movie should be made with a new set of actors portraying the familiar heroes in their younger days at Starfleet academy, thus producing a series in the vein of the *Police Academy* movies. At this time no definite decisions have been made as to the future direction of *Star Trek* and the studio is looking for stories and people to helm the sixth adventure. There have been many suggestions that Nicholas Meyer be brought back to write and direct *Star Trek VI* since he directed *Star Trek II* and cowrote *Star Trek IV*, the two most-liked of the *Star Trek* movies. Hopefully a good *Trek* movie will be released on the 25th anniversary of the show in 1991.

Now I shall expound on the virtues of living in and around L.A. For the sixth time in the 10 years that I have lived in Los Angeles I attended a preview showing of a

movie weeks before its release. Let's see New Yorkers beat that. The movie, due out in March, is the long-awaited *The Hunt for Red October*. It is based on the best selling book and stars Sean Connery and Scott Glenn and is directed by the director of *Die Hard*, John Mactiernan. The version that I saw was a very rough cut, all the special effects were in black and white and some were as yet unfinished and were represented by narration written on the screen. The color was sometimes a little off and there were no credits. Even with all these unfinished elements the movie was excellent. I have not read the book but the movie was extremely suspenseful and intelligent. It lasted for over two hours but time flew by in the face of the engrossing story. There are a couple of warnings for non-militarily inclined viewers: the story might get a little confusing since the Russians speak English and, of course, so do the Americans, so to follow the action one must pay close attention to uniforms and to sets since the story often switches between American ships and submarines, and Soviet Submarines. Also, close attention must be paid to the submarines since to the casual observer American and Soviet submarines might look alike. (Soviet submarines have shorter towers than American ones and their towers are placed farther back than American submarines.)

Not one foot of film was wasted as each scene is filled with plot details and intricacies, so when you see the movie, don't go out to get popcorn!

Moving on to other movies, John Mactiernan is now involved with the sequel to *Die Hard*. The location of this movie was originally supposed to be L.A.X. but was changed to Dulles airport near Washington. The plot involves a terrorist takeover of the airport where our hero John McLane is passing through. Bruce Willis reprises his role of the smart New York cop but amid some controversy. Airports are not overjoyed at the prospect of showing terrorism at airports, fearing that it might generate real acts of violence, but at this time the filmmakers have not taken any steps towards changing the plot.

One of the biggest movies this summer is going to be Warren Beatty's version of *Dick Tracy*, made in collaboration with the Disney studios. This newest attempt to bring a comics hero to the big screen does not straddle the line between reality and fantasy by continuously interchanging between the two like *Batman* did last summer. This movie is pure epic fantasy. Only solid primary colors are used throughout the movie. There are no shades of any color, every blue is the same blue and every red is the same red and so on, giving

the movie an extremely stylized comic-bookish look. Warren Beatty wrote, directed and stars as the suave detective whose gadgets help him stay out of trouble. The cast is filled with cameos by major stars like Al Pacino and James Caan. Madonna also has a role in the movie, as she plays the sultry singer at a shady bar. The movie has been extremely expensive and everyone is very anxious to see what the audience response will be.

And now what everyone has been waiting for, my Ten Best list for the decade. (OK, so you haven't actually been anxiously awaiting it, but everyone else made a list, so why shouldn't I?) These ratings are based on pure enjoyment, originality and innovation. These are movies that I can watch over and over again without getting tired of them because they all have interesting stories and are all in one way or another innovative.

1. *The Empire Strikes Back* (1980)
2. *Return of the Jedi* (1983)
3. *Blade Runner* (1982)
4. *Raiders of the Lost Ark* (1981)
5. *Star Trek II: The Wrath of Khan* (1982)
6. *Tron* (1982)
7. *Back to the Future* (1985)
8. *Ghostbusters* (1984)
9. *E.T. (1982)*
10. *Who Framed Roger Rabbit* (1988) tied with
10. *Back to the Future: Part Two* (1989)

Benefit Concert

Enjoy an evening of music, dance, video and storytelling with the popular Bolivian band Yatiri, and the Texas-based Chaski. Jamie Allen (local composer) will add to this special evening which also includes storyteller/singer Angela Lloyd. The event is Saturday, February 3rd, 1990, 8:00 pm at the Pasadena Presbyterian Church. Tickets are \$7 at the Y (second floor, Winnett).

entertainment

by Nick Smith

The Caltech Folk Music Society concert for this month, Saturday night at 8 in Dabney Hall, features two returnees to the Caltech campus, Carla Sciaky and Kim Wallach. Both have played here, separately and together, several times over the last few years.

Kim Wallach is the more "predictable" of the two, playing mostly guitar and banjo, and singing a combination of her own compositions and a variety of other modern and traditional folk music. She does those things quite well, and her own compositions about life range from the funny to the moving and serious.

Carla Sciaky is... well... a little unusual. She plays about a dozen instruments, but will probably only play five or six on stage (not all at once), including a type of Bulgarian fiddle. Her music ranges from modern folk music, to medieval and renaissance instrumentals, to "ethnic" music from

the Balkans to... anything she feels like playing, really. The funny part is, no matter how unfamiliar you are with the style of music, Carla Sciaky makes you comfortable with it. I blushingly admit that I can't speak a word of Bulgarian, but when she plays a Bulgarian fiddle tune and sings along, I enjoy it anyway. And that's not to say that she plays an evening of Bulgaria's Greatest Hits. She just likes spicing up her show, and hey, those Bulgarians know how to crank out a lively fiddle tune!

Her albums show her tremendous musical diversity, instrumentally and vocally, ranging from medieval music played on a psaltery to modern children's songs played on a relatively ordinary guitar.

If you miss them this time around, it will probably be at least a couple of years before your next chance, so go on over to Dabney Hall. Tickets are \$8.00, but only \$4.00 for Caltech students.



Who is this guy? Find out on page 6.

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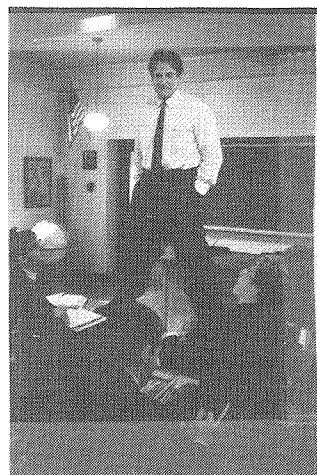
Letters and announcements are welcome. All contributions should include the author's name and phone number and the intended date of publication. The editors reserve the right to abridge and edit letters for literacy, expediency, or else.

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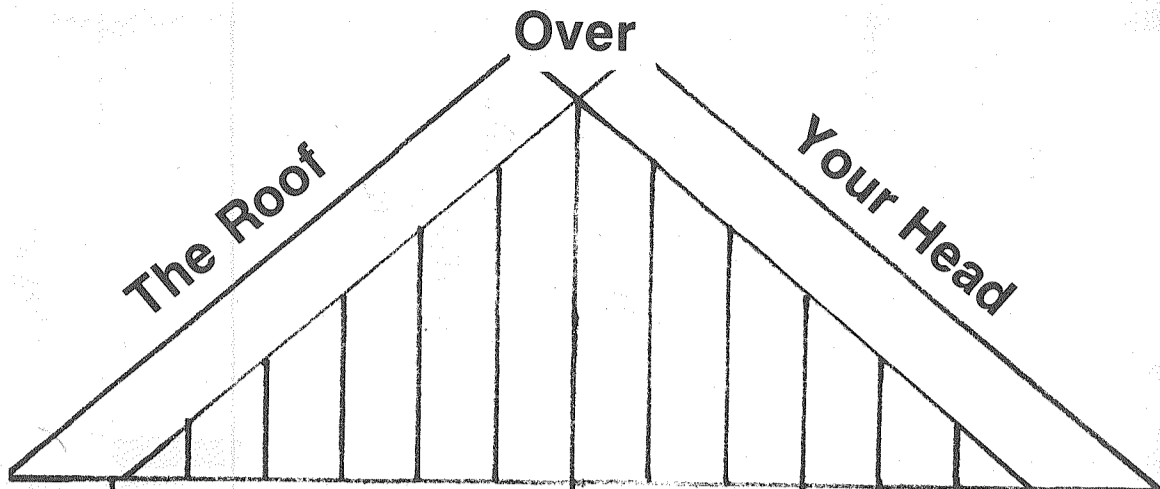
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Next Week: The 2000 Tingers of Dr. T

The Inside World

This Week's **Inside World** was written by:
Blacker: Kevin Archie, Walker Aumann, and Noam Bernstein
Dabney: David A. Edwards
Fleming: Kent Nordstrom, Jessica Nichols, and Michael Smith
Lloyd: Dave Jeitner, Paul Socolow, and Gil Elbaz
Page: Jimmy Hu and Michael Nassir
Ricketts: Joe Dadek



For The Latest in Housing Office News

by Nancy Carlton

Regardless of where you are living in Institute housing, students are to report any maintenance problems directly to the Housing Office at 356-6175. Be prepared to give the location, your name, your telephone number and a detailed description of the problem. Providing as much information as possible will assist the Housing Department staff in diagnosing the nature of repair work required.

Depending upon your housing location, work will either be assigned to Physical Plant staff (On-campus undergraduate Houses) or

the Housing Department maintenance staff (off-campus housing locations).

Your request will be given a priority based upon its urgency:

1. Emergencies threatening the life and safety of residents will be acted upon immediately.

2. Problems concerning clogged drains or similar problems which are not considered emergencies but do present major inconveniences will be handled within 24 hours whenever possible.

3. Less serious problems which do not require an outside contractor, a material purchase from an outside supplier or an estimate

and/or work scope will be handled within 5 working days whenever possible.

4. All other problems will be handled as soon as possible, depending upon their urgency and complexity as well as the current work load of Physical Plant and Housing Department maintenance staff as well as availability of parts.

Emergency maintenance problems occurring during evening or weekend hours can be called directly to Physical Plant at 356-4717.

Next week: The maintenance appointment system for accessing student rooms!

Yet Another Bridge Article

by Jack Singleton

For the second straight year, the Caltech Bridge Club will be sending a team to the North American Collegiate Bridge Championships. We managed to be the top team in our region again, facing stiff (as a matter of fact, nearly dead) competition from the numerous other eligible schools in our region. So while many of you will be suffering in the heat of the sun and sand at the beaches over spring break, Bill Cross, Sam Dinkin, Jeff Goldsmith, and Fred Upton will be in Ft. Worth, Texas (March 23-25) to compete against five other schools for the national title. Among them is Harvard, the team that beat us in the semi-final match last year. We want to thank everyone who showed up for the tournament last term, since without your help we might not have been able to send a team at all.

Also, as some of you have no doubt already figured out, we are no longer meeting in the Red Door Café over Winnett; it no longer exists. We are now playing in the new, improved Red Door Café in Chandler Dining Hall at 7:15 on Monday nights (we like to say we are playing new, improved bridge, but...).

North
 ♠ 7 4
 ♥ J 9
 ♦ Q 5 4
 ♣ A Q J 10 9 8

West
 ♠ 9 8 6 3
 ♥ 8 7 3
 ♦ J 9 8
 ♣ 7 4 3

East
 ♠ Q J 10 2
 ♥ K 10 6 2
 ♦ K 10 6
 ♣ K 5

South
 ♠ A K 5
 ♥ A Q 5 4
 ♦ A 7 3 2
 ♣ 6 2

Dealer: South
 Vulnerable: North/South

North	East	South	West
		1 NT*	Pass
3 NT	Pass	Pass	Pass
Opening lead: 3♣		*15-17 HCP	

Today's hand focuses on a common problem faced by the defense—how to prevent declarer from taking tricks in dummy that he is entitled to, by cutting his transportation—otherwise known as "killing the dummy."

"I can see 22 HCP between my hand and the dummy; so declarer, who has promised 15-17 HCP, must be missing at most a king of the 18 HCP which remain in the deck. This means that declarer has the

three aces and at least either the K♣ or the Q♥," East reasoned, "if South has three clubs in his hand, the contract cannot be set, for South will certainly be able to set up four tricks in his hand, and take five tricks in clubs in dummy (losing one round to the king but cashing the others with a third club lead). Also, South cannot have a singleton club for his opening. So, if I assume the contract can be set, South must have exactly a doubleton club, and I must prevent him from cashing his clubs in dummy."

South won the first trick with the A♣ and led a club, finessing the queen. East played the five, ducking smoothly. South led a low spade to his hand, ducking (East playing the jack, having played the ten on the first round). East exited with his Q♣, taken by South's king, and South finessed a second club, East now playing his king. East now played his carefully preserved 2♣ to West's nine and West returned a low heart, completing the murder. If the J♥ is played, East covers with his king, and if not, East plays the ten. Now East has safe exits in hearts, and can prevent the Q♦ from becoming an entry to dummy's clubs, so in the end the defense will take two spades, a heart, two diamonds, and a club—down two.



Page

Movie Mania

This week's topic: Page House home movies. That's right! Major motion pictures starring the members of Page House, all available on videocassette! Order now, and you can own these genuine movie classics, for you and your family to enjoy for generations to come! Just check out some of these titles:

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- Twins*- Starring Hanna Hsu and Yuan Tung
- Baby Boom*- Starring Pam Jansma and Glen Mattioli
- The Seventh Sine*- Starring Bill Cross
- Desperately Seeking Shaila*- Starring Brett Bochner
- Three Men and a Baby*- Starring Todd Schamberger, Fred Sloneker, Steve Harkness, and David Lande
- My Life as a Dog*- Starring Cris Daubjerg
- The Twilight Zone*- Starring Kevin Park
- Missing in Action*- Starring Dave Ross
- Big*- Starring Steve Harkness
- Fatman and the Little White Boy*- Starring Carver Farrow and Lan Smith
- Coming to America*- Starring Korhan Gurkan and Nitu Kitchloo
- Animal House*- Starring Beer
- Rear Window*- Starring Graham Gitlin
- Batman*- Starring Chon Torres
- Strange Brew*- Starring Paquito Gomez and J.P. Kovalik
- Deep Cutthroat*- Starring John Pakianathan, Dave Cutrer, and Anders Johnson
- The Running Man*- Starring Dan Flees
- The Taming of the Shrew*- Starring Mark Fey
- Little Women*- Starring Nancy Hua, Emmeline Naranjo, Keana Kim, Jennifer Joh, Snehal Adodra, Mimi Sengupta, Ella Lurie, Anthea Howell, and Shaila Reifsteck

Honey, I Flunked the Kids- Starring Professors Fuller, Fillipone, and Meiron
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Ki Pak Karate Cinema

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- The Karate Kid*

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- The Shining*

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Documentaries

- Less Than Zero*- A documentary on the Fleming GPA
- Sex, Lies, and Videotape*- A documentary on Dabney House
- The Money Pit*- A documentary on Page House

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-Dr. Who and The Cub Scout
 (special thanks to those others who contributed to this article)

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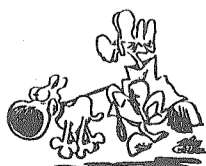
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The Inside World

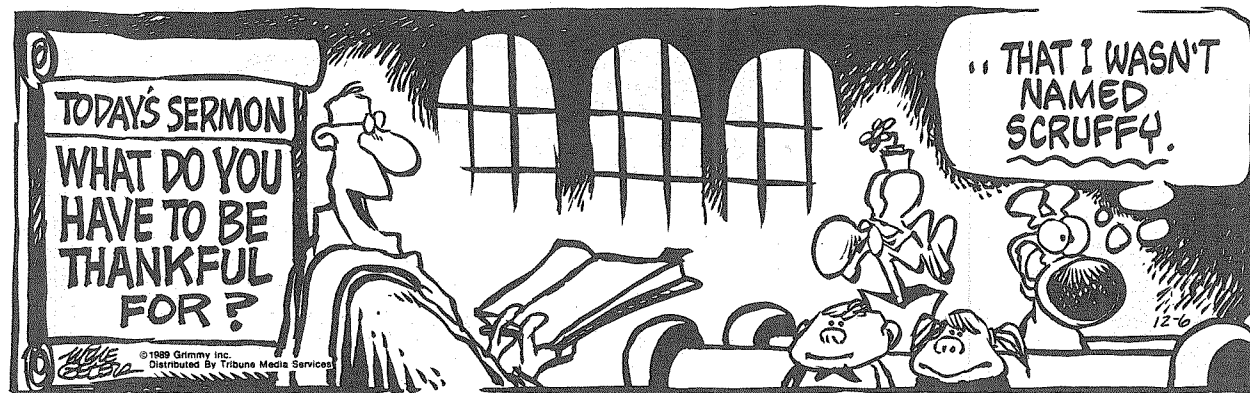
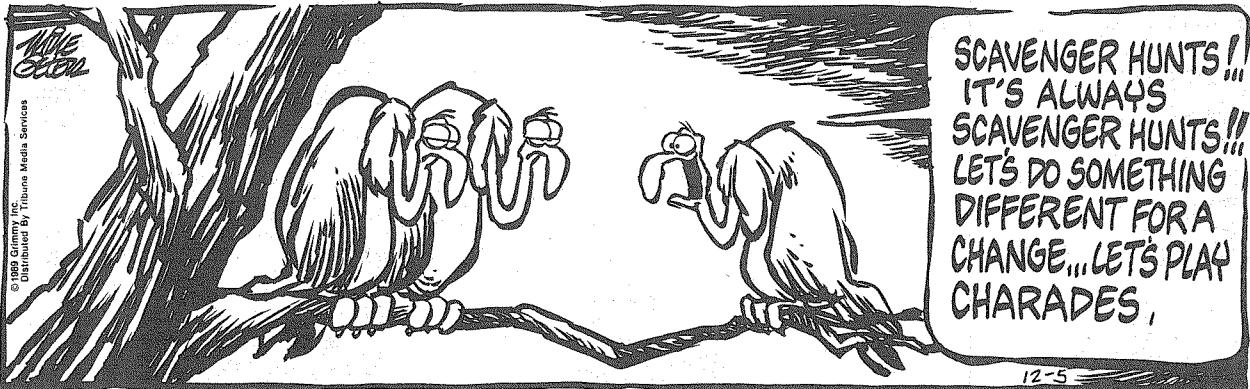
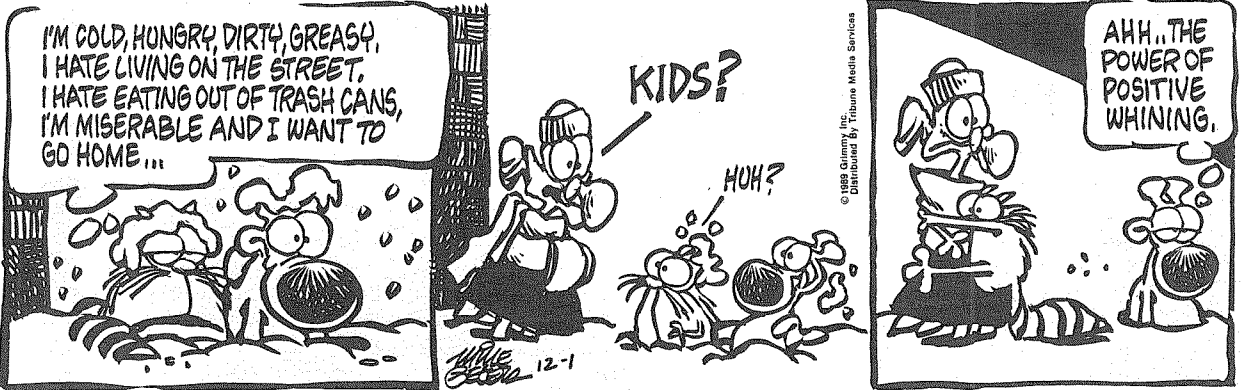
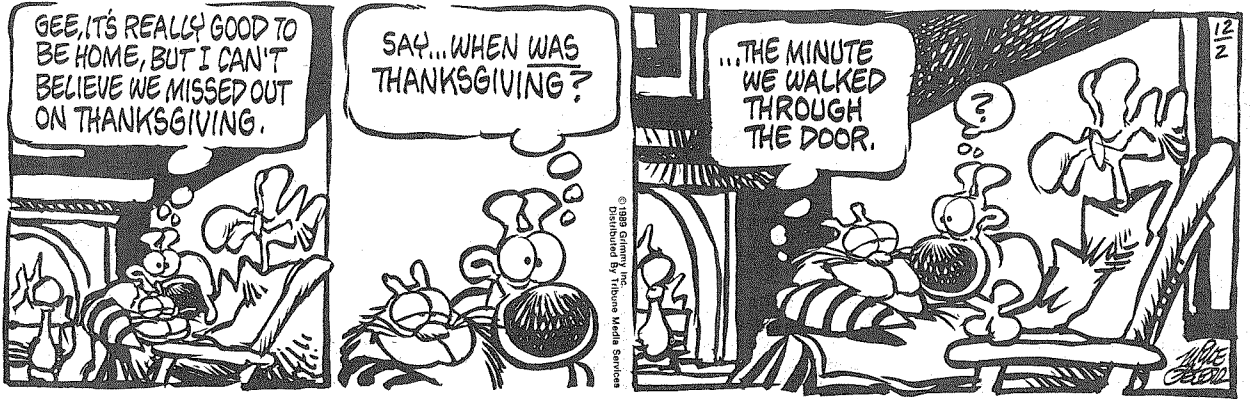
Lloyd

WARNING! The contents of this Inside World may be offensive to the following people: women, graduate students, faculty, members of Dabney House, Tara Kirby, Alvin Law, guys who use condoms, women, farmers, Berlin Wall guards, Rastafarians, Alecia Chen, women, the Kiewiet-Rogers Committee, Democrats, CLAGS, the IHC, the BOC, the SWE, the OWC, women, cat-lovers, guys named Herb, the Flintstones, Shane Sauby, fans of the movie Batman, and women.

- Don't say we didn't warn you.
1. Which of the following can penetrate a ten foot steel wall? a) A stream of teflon-coated bullets fired from an AK-47 b) The Milan anti-tank missile c) Karen Byers' voice
 2. Which of the following is the most annoying? a) The Ride of the Valkyries b) Eight o'clock classes c) Jennifer Yu
 3. Which of the following Popes is/was lame? a) Tara Kirby b) John Stamm c) All Popes are lame
 4. Which off-campus alley is the best place to live? a) Corona b) Anyplace but the Pit c) No place is cooler than the Place
 5. Which person/language combination is the most painful? a) Alvin Law trying to speak English b) Curt Hagenlocher imitating Alvin Law trying to speak English c) Anybody speaking Cantonese makes me want to puke
 6. What is the best way to park your motorcycle? a) Standing on its side-stand b) With the front wheel locked c) In a crumpled heap on the freeway where you dropped it
 7. Where can Capellari best fulfill his duties as Off-Campus Rep? a) The Place b) The attic at Corona c) Allen Park, Michigan
 8. What is the latest rumor about Tara and Fred? a) Who cares? b) Who cares? c) Who cares?
 9. Which new pair of roommates is the best match? a) Alex Densmore and Carl Roth b) Rich Yeh and Albert Lee c) Dimitri Kirill in a single
 10. Which of the following is the most sexist remark? a) "But what if she's ugly?" "EZ come EZ go." b) "Life ain't nothin' but bitches and money." c) "If those graduate women had a taste of my foot-long, they wouldn't be nearly as upset."
 11. Who's got the coolest user name? a) DAVETOW b) STEVEL c) Sorry, guys. There are no cool user names.
 12. What's the difference between Star Trek and Caltech? a) Sulu is the only Asian b) The cast of Star Trek doesn't watch Caltech c) In Star Trek, the guys in red shirts don't deserve to die
 13. What is Andre Ohanissian's favorite saying? a) "Get a REAL bike." b) "I have never committed a crime." c) "If those graduate women had a taste . . ."
 14. How can Caltech best spend \$100,000? a) The 1991 Rose Bowl Parade b) Upgrading the outdated TOC/DOC system at the library c) A Donut Robot and \$97,000 worth of batter
 15. Who has been the most effective ASCIT officer of the last five years? a) Rich Reid b) Sam Weaver c) Yeah, right.
 16. The smallest "member" in Lloyd House is a) Ngoc Diep Le b) Yvonne Liu c) Jack Prater's
 17. The Off-Campus Posse (OCP) a) Kicks butt b) Kicks more butt c) Kicks the most butt
 18. What is the biggest difference between the upstairs and downstairs in Lloyd? a) About 12 feet b) More frosh live upstairs c) Upstairs people hit the ground harder when thrown out of their windows by the OCPosse.
 19. Which part of Marda do you like the best? a) Her head b) Her tail c) Collett in the air
 20. To lodge complaints about this Inside World, call a) x5000 b) x6929 c) (313) 928-3454, and ask for Tom

Thank you for participating.
-Quizmaster C, DJ Davy J, Soc-MC, and Kool L Boz

Blacker	25 0 5 5
Dabney	38 0 1 1
Fleming	20 0 3 3
Lloyd	27 0 6 6
Page	15 0 4 4
Ruddock	33 0 0 0
Ricketts	23 1 2 3



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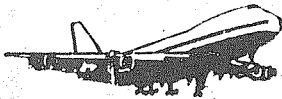
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The Inside World

Blacker

The Little Golden Book of Quantum Mechanics

Mr. Goat was sad. "I can't find my wallet," he said to Mr. Pig. "Where can it be? It must be somewhere."

"But why, Mr. Goat," asked Mr. Pig. "Why must your wallet be somewhere?"

"Normalization," said Mr. Goat. "The integral over all space of the magnitude of the square of the wave function of my wallet is one."

"Maybe you left your wallet at Ms. Chicken's house," said Mr. Pig.

"Let's go see," answered Mr. Goat.

Mr. Goat and Mr. Pig left their house, carefully closing the door behind them to maintain the potential barrier that keeps nasty Mr. Wolf from walking in and stealing their dinner.

Mr. Goat and Mr. Pig walked to Ms. Chicken's house, and knocked on her door. "Hello, Ms. Chicken. It is Mr. Goat and Mr. Pig. May we come in?"

"Oh my! Just a moment, Mr. Goat. Just a moment, Mr. Pig," said Ms. Chicken. "I am in a superposition of position eigenstates. Let me pull myself together," she said as she opened the door.

"Hello, Mr. Goat. Hello, Mr. Pig. Won't you please come in," said Ms. Chicken.

"I saw your wallet on the table earlier, but it may have moved. Since I knew where it was, I didn't know if it was moving."

"Ah, here it is. Here is my wallet. Now we can go to the market. Would you like to go with us to the market, Ms. Chicken," asked Mr. Goat.

"That would be splendid," answered Ms. Chicken. "But how will we get there?"

"May we use your sled, Ms. Chicken," asked Mr. Pig. "We can slide down the potential gradient to the market."

"Yes, certainly," said Ms. Chicken. "Let's go to the garage and get it."

They left the house, went to the garage, got in the sled, and rode down the potential gradient to the market.

"My, that was exciting," said Ms. Chicken. "Come along, Mr. Goat. Come along, Mr. Pig. Here we are at Schrodinger's Market."

"Hello, Mr. Goat. Hello, Ms. Chicken. Hello, Mr. Pig," said Ms. Gerbil, the storekeeper. "May I help you?"

"Yes. We are here to pick up our two pies, and the brand for our ranch, the Bar-H," said Mr. Goat. "We'd also like a six pack of quarks."

"I'm sorry, Mr. Goat," said Ms. Gerbil. "We don't have any truth quarks."

"Gee, that's too bad," said Mr. Pig. "When are you going to get truth quarks?"

"Probably never," answered Ms. Gerbil. "They're just too big for the truck to deliver."

"Oh well," said Mr. Goat. "Maybe I don't need those quarks anyway. They'd just be more wave functions to clean up after."

Ms. Gerbil put the pies and the brand into a bag. Mr. Goat paid Ms. Gerbil, and picked up the bag.

"Thank you, Ms. Gerbil," said Mr. Goat. "I'll see you later."

"Goodbye, Mr. Goat," said Ms. Gerbil. "Goodbye, Ms. Chicken. Goodbye, Mr. Pig."

"Goodbye, Ms. Gerbil," said Ms. Chicken.

"Goodbye, Ms. Gerbil," said Mr. Pig.

Mr. Goat, Ms. Chicken, and Mr. Pig left the store and got in the sled. "It's a long way home," Ms. Chicken said, "but I'll bet we're so excited, we could push the sled all the way up the hill. Microscopic reversibility, you know."

Ms. Chicken was right, and soon they were back at her house.

"Thank you, Ms. Chicken, for letting us use your sled," said Mr. Pig. "Won't you come to our house for dinner?"

"That would be lovely," said Ms. Chicken.

They walked to Mr. Goat and Mr. Pig's house. When they opened the door, they were surprised to find Mr. Wolf inside, burning the carpet with a soldering iron.

"Oh, no," exclaimed Mr. Goat.

"How did you get in, Mr. Wolf," asked Ms. Chicken. "The potential barrier was too great for you to climb over."

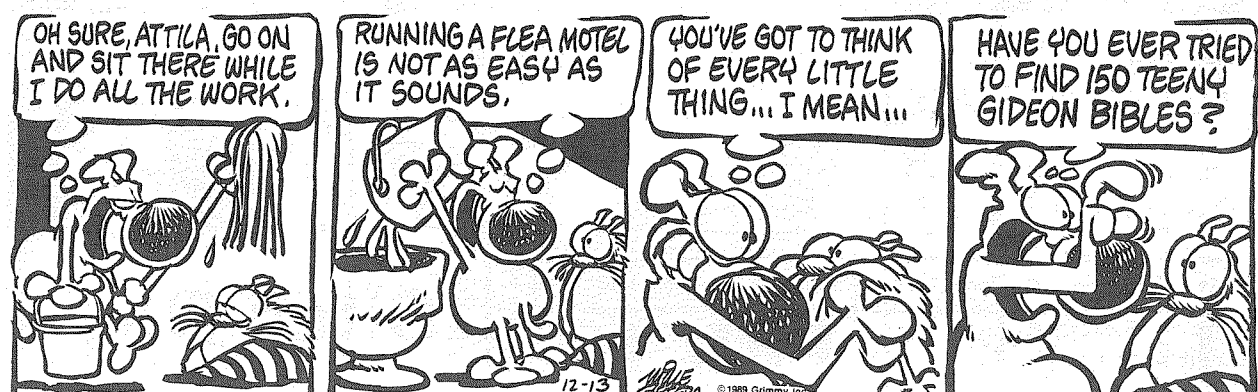
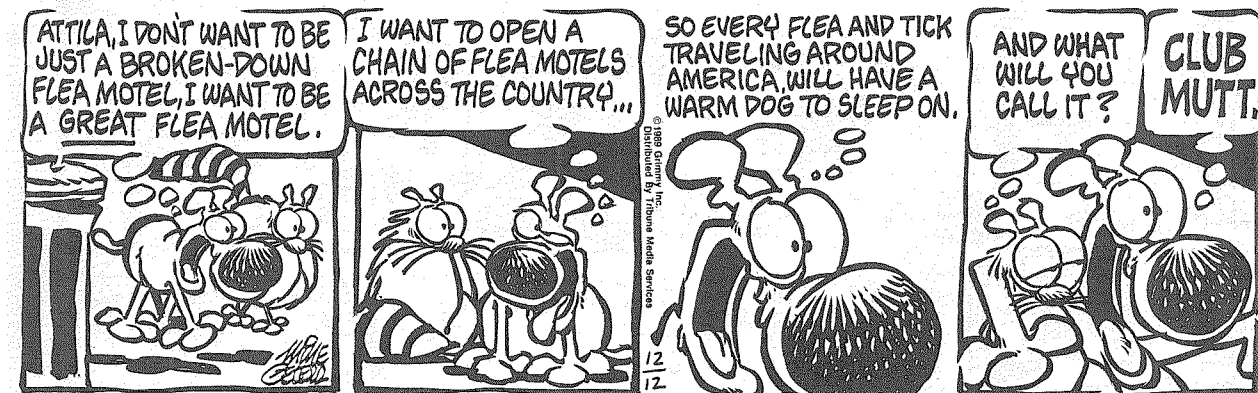
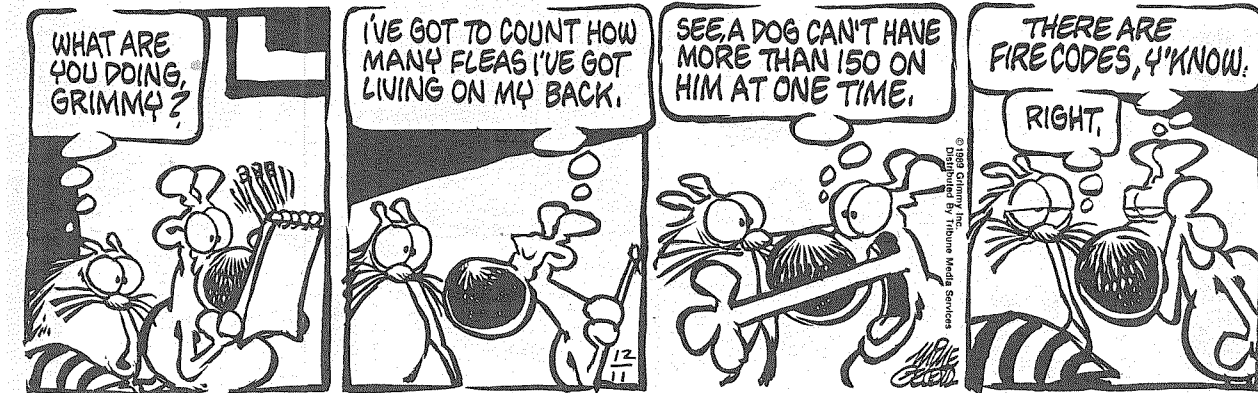
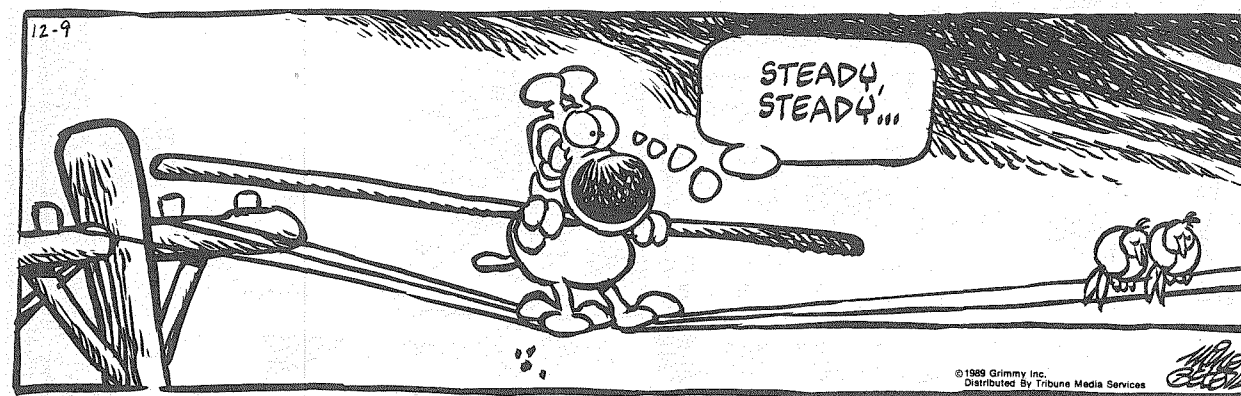
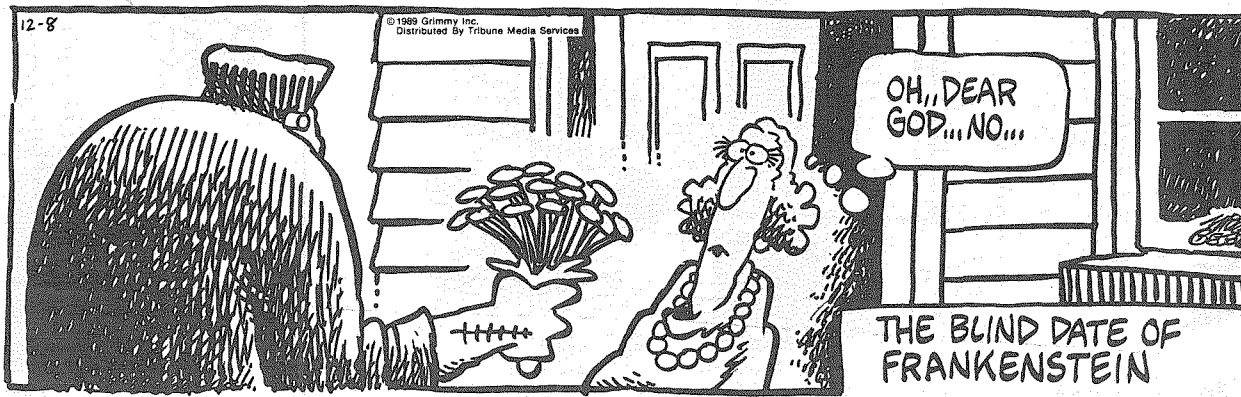
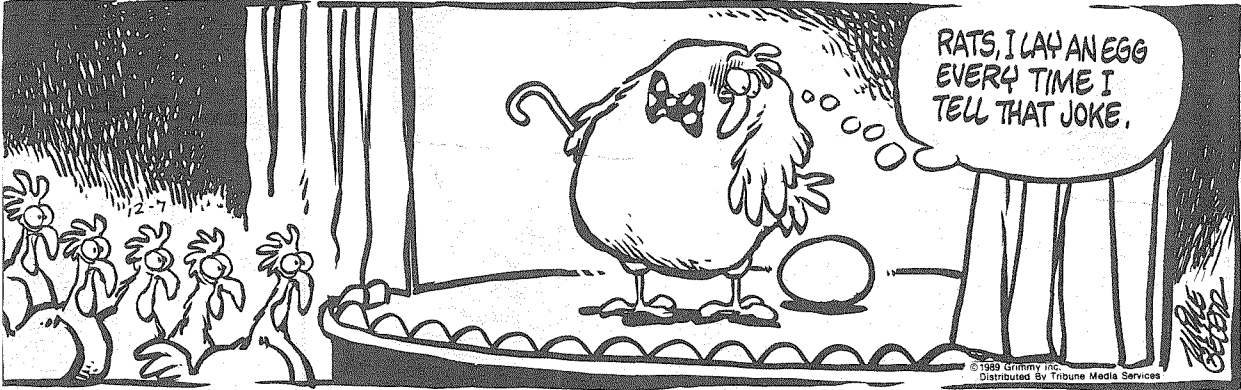
"Hah! I didn't need to go over," laughed Mr. Wolf. "Your barrier was so thin that I just tunneled through!"

"Why are you soldering those worthless pieces of metal together in our house," asked Mr. Pig. "You'll burn holes in the carpet, and we haven't even paid for it yet. By the way, would you like to contribute to the House o' da Month Carpet Fund?"

"Because my hoving contract strictly forbids appliances with heating coils," explained Mr. Wolf. "If your carpet gets burned instead of mine, I won't get in trouble. Ha ha ha!"

"But, Mr. Wolf, you didn't need to break into our house," said Mr. Goat. "You could have just sent the bill to Jerry Pine. Now we're going to have to call the police."

Mr. Wolf looked frightened, and ran out the door, but he wasn't fast enough to escape the Black Hand o' Justice. Four black robed figures put him in handcuffs and a blindfold, and led him off to The Master. Poor Mr. Wolf. Even wolves don't deserve that treatment - only frosh do.



Designing Space

Have you ever wanted to design an experiment to be performed on the space shuttle? Now's your chance! Caltech SEDS has acquired 1-3 "Getaway Specials". A meeting for those interested in working on the SEDS committee will be held on Tuesday, Jan. 16 in Clubroom 13 in the SAC at 7:30pm. Bring you ideas and your enthusiasm!

Mechanical Universe

Watch *The Mechanical Universe* every Tuesday from 10 pm to midnight and every Thursday from 9 pm to midnight at the Y Lounge, upstairs in Winnett. Freshmen, upperclassmen, grads and faculty are welcome. Refreshments will be provided.

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Mother Goose & GRIMM
by Mike Peters

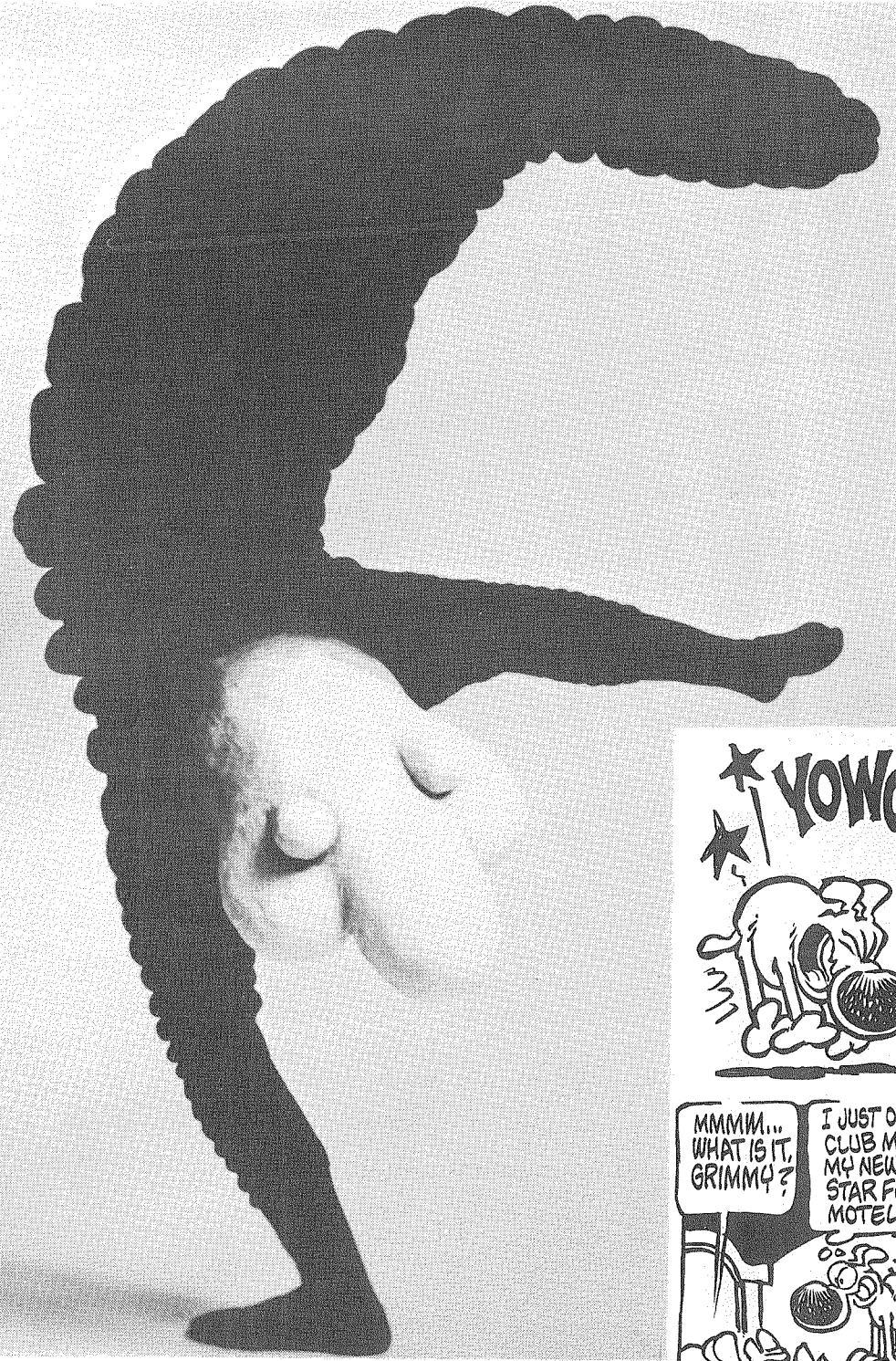
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I HAVEN'T HAD ONE CUSTOMER CHECK IN TO MY FLEA MOTEL YET. DID I FORGET SOMETHING?

WHAT'S WRONG?

THE POOL ISN'T HEATED.

YOWCH

OH OH, CLUB MUTT HAS ONLY BEEN OPEN A FEW HOURS BUT ALREADY MY FLEAS ARE COMPLAINING.

WHAT'S WRONG?

THE POOL ISN'T HEATED.

GRIM

12-14

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MOTHER GOOSE & GRIMMY
by Mike Peters

MMM... WHAT IS IT, GRIMMY?

I JUST OPENED CLUB MUTT, MY NEW FIVE-STAR FLEA MOTEL...

YUCK, GET OFF MY BED

YOU'RE COVERED IN FLEAS FROM YOUR HEAD TO YOUR TAIL

THAT'S NOT MY TAIL... THAT'S THE PRESIDENTIAL SUITE.

12-15

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OH BOY... HERE COMES SOME MORE CUSTOMERS...

HELLO, FLEAS, WELCOME TO CLUB MUTT, AND REMEMBER OUR SLOGAN...

12-16

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WELCOME TO CLUB MUTT, EVERYBODY.

I HOPE YOU INSECTS HAVE A NICE DAY...

AND IF YOU NEED ANYTHING... JUST BUZZ.

SOMETIMES I JUST CRACK ME UP...

HEH HEH HEH HEH

12-17

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"SLEEP TIGHT AND DON'T LET THE BED BUGS BITE,"

PRETTY CATCHY, HUH?

12-18

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ATTILA... MY FLEA MOTEL IS ALL FILLED UP...

I'VE GOT A CONVENTION OF CARPENTER ANTS COMING TONIGHT AND I NEED HELP.

SO, WHY ARE YOU TELLING ME?

HAVE YOU EVER THOUGHT ABOUT A CAREER IN HOTEL MANAGEMENT?

12-20

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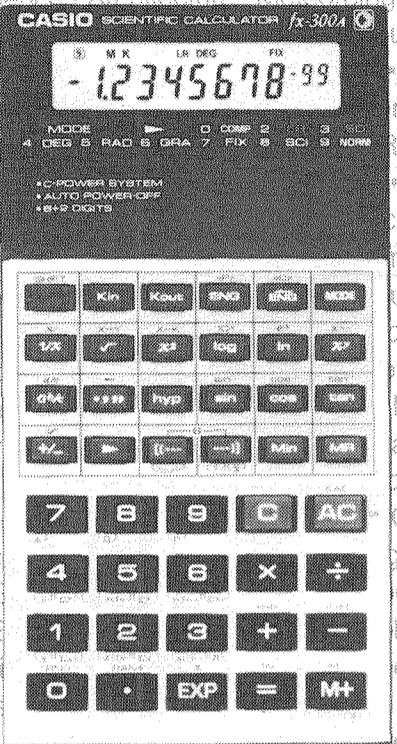
Ditch Day

Well, sort of. Senior Ditch Day is tomorrow. But even if you aren't a senior, you can practice your stack-making skills on high school physics students. We've invited teams from four high schools in the area to our campus to participate in a field day of activities and problem-solving on the 1st Saturday in March. Have fun seeing them struggle with problems you've designed! (All materials will be paid for.) Come to the Winnett Clubroom 1 this Saturday at 3PM to find out more. Free food & drinks will be provided!

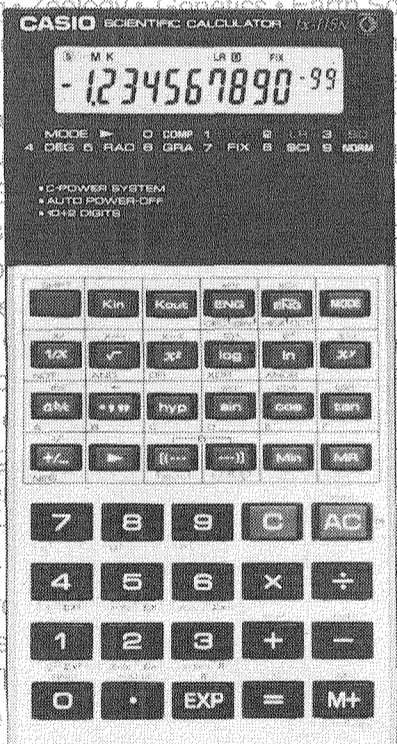
Tech Meeting

Today, 12:15 p.m. upstairs in Winnett

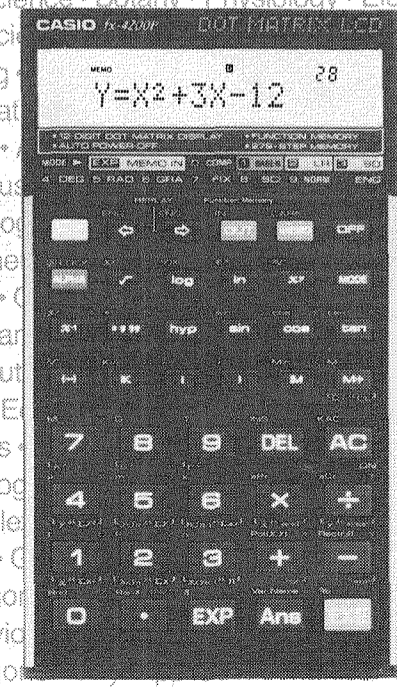
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 Electron Microscopy • Ecology • Mineralogy • Avionics • Circuits and Electronics
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 Differential Equations • Matrix Algebra • Analytical Geometry
 Physiology • Plane Trigonometry • Applied Mechanics • Robotics • Epidemiology
 Botany • Mycology • Avionics • Health Education • Oceanography • Electrical Engineering
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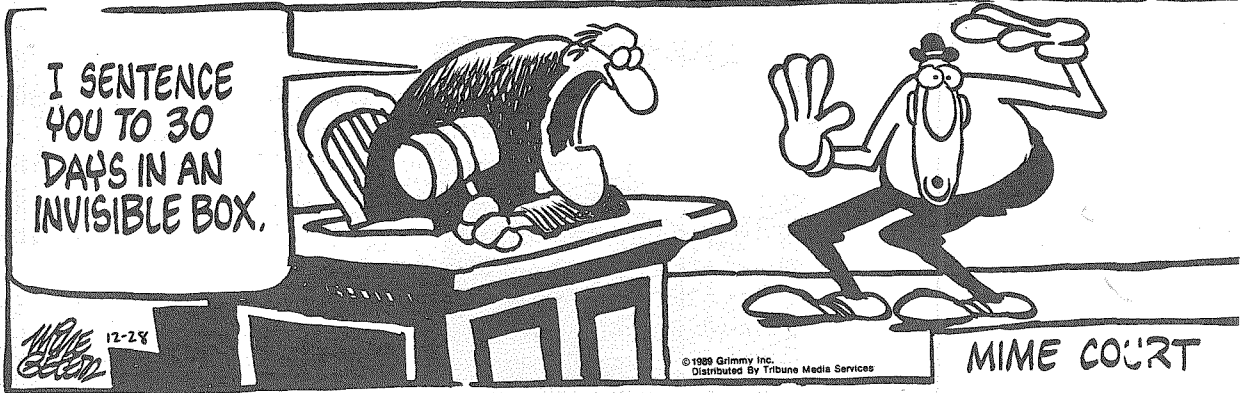
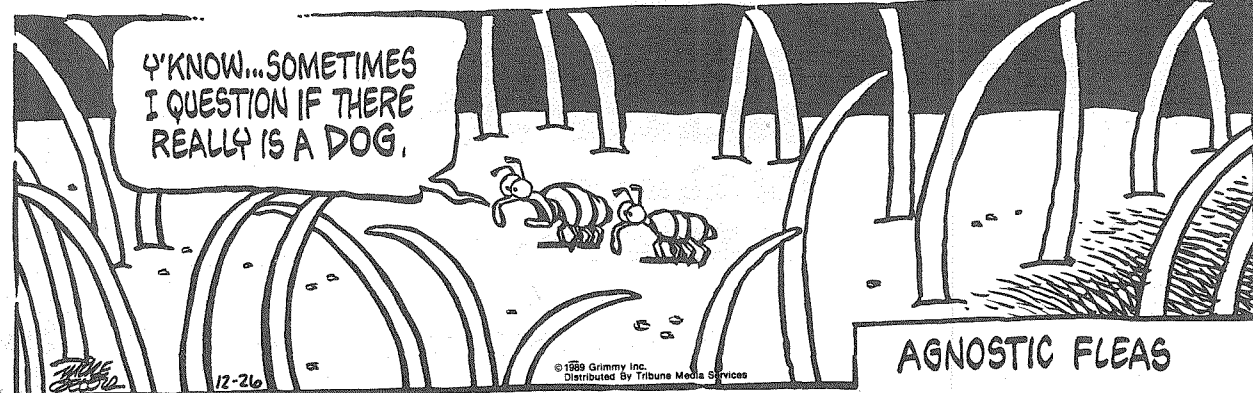
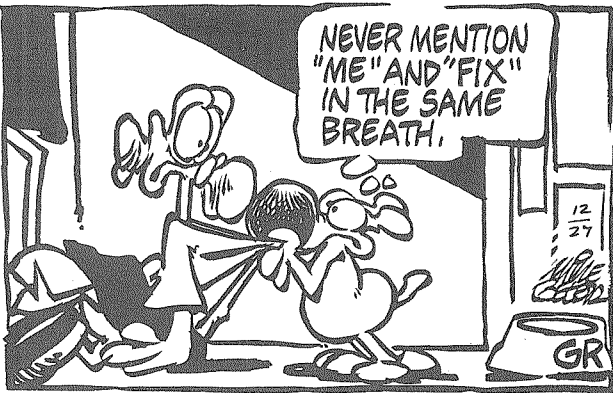
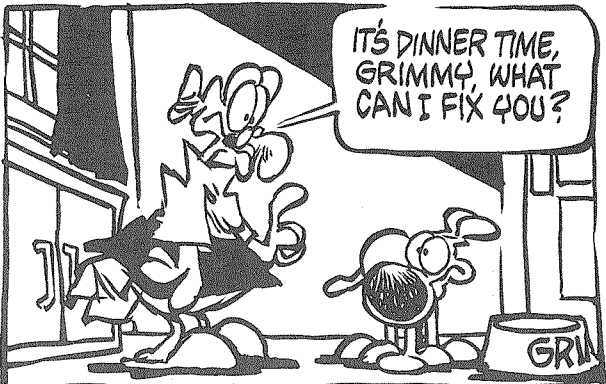
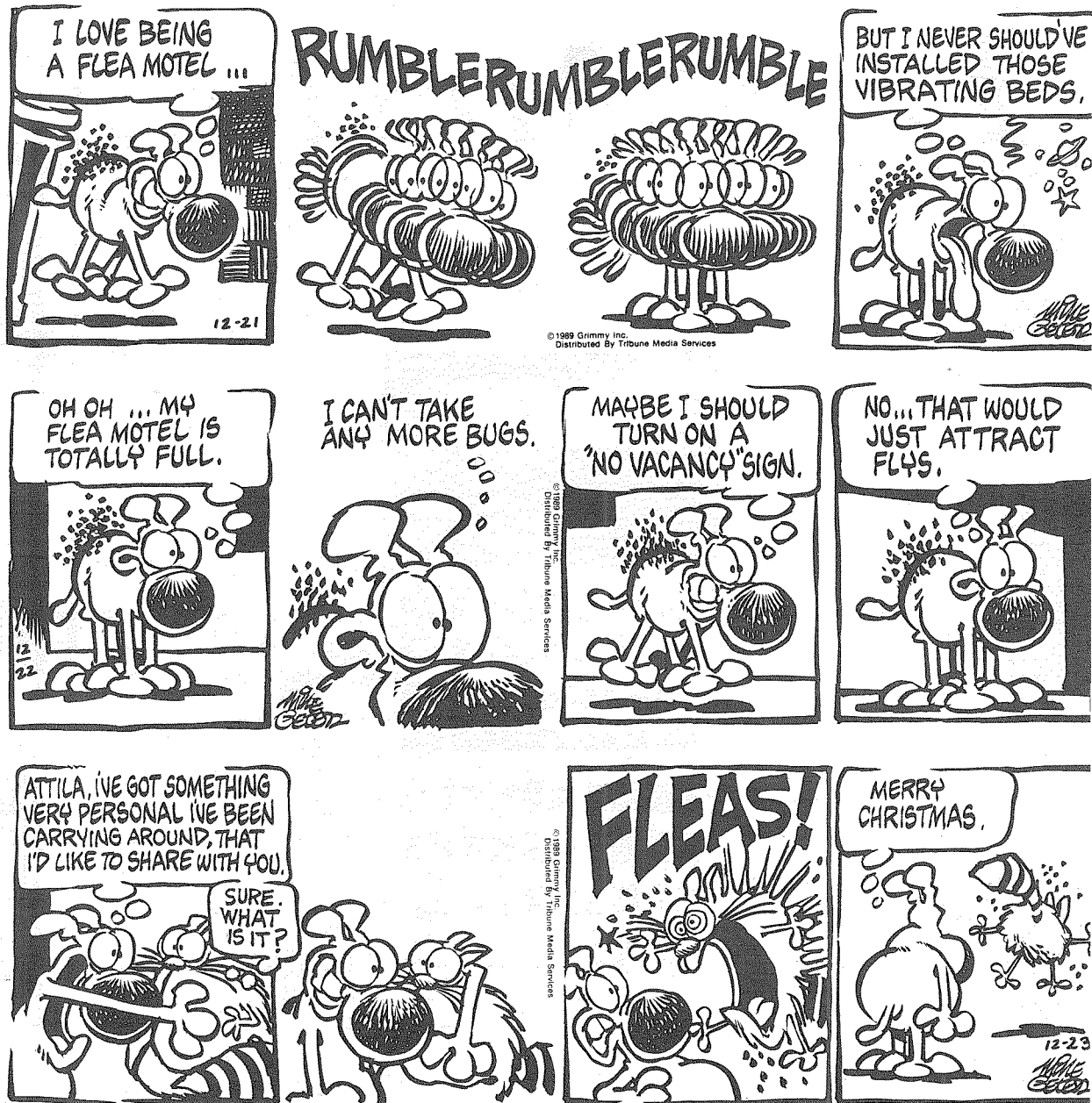
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Shuttle Landing

Caltech SEDS (Students for the Exploration and Development of Space) will be organizing a trip to Edwards AFB to see the space shuttle Columbia land. It will be landing on Friday, January 12 at 2AM, so the group will be leaving at 10PM Thursday night (you don't have to miss class). If you are interested in attending, come to the organizational meeting Wednesday, Jan. 10 at 7:30PM in Clubroom 15 in the SAC. If you cannot make the meetin but are still interested in attending the landing, call Sonny Arcilla (577-4423) before Wednesday night.

Redlands 107, Caltech 68

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Ralph	6	2-7	28.6	2-3	0	1	1	4
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Kollmorgen	2	1-7	14.3	0-0	1	4	1	3

Totals 68 29-60 48.3 8-16 25 11 19 32

	Rhode Island at St. Joseph's	Louisville at South Carolina	Dayton at Marquette	W Kentucky at Va-Common	Duke at Georgia Tech
Scott Kister (14-8)	Rhode Island	Louisville	Dayton	W Kentucky	Duke
Mark Lyttle (12-10)	St. Joseph's	Louisville	Marquette	Va-Common	Georgia Tech
Paul Socolow (8-14)	St. Joseph's	Louisville	Marquette	W Kentucky	Duke
	NC-Charl at South Alabama	Indiana at Northwestern	Hawaii at Air Force	UTEP at BYU	New Mexico at Utah
Scott Kister	South Alabama	Indiana	Hawaii	BYU	New Mexico
Mark Lyttle	NC-Charlotte	Indiana	Air Force	BYU	Utah
Paul Socolow	NC-Charlotte	Indiana	Air Force	BYU	Utah

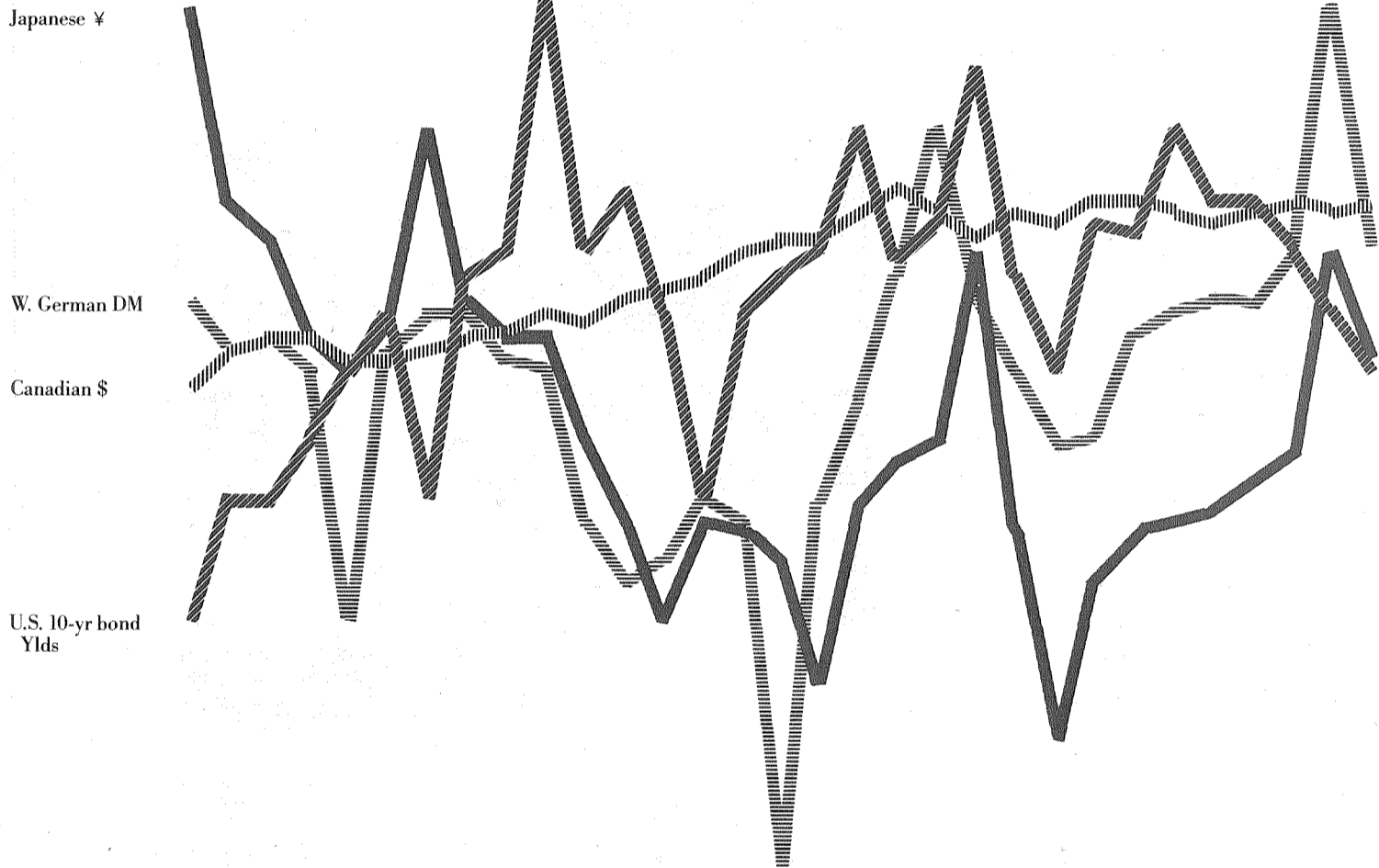
Day	Date	Sport	Opponent	Results
Sat.	1-6	Basketball	Colorado College	50-89
Wed.	1-10	Basketball	Redlands	68-107

WEEKLY SPORTS CALENDAR

Day	Date	Time	Sport	Opponent	Location
Sat.	1-13	11:00 am	Swimming (M-W)	Redlands	CMS
Sat.	1-13	6:00 pm	Basketball (JV)	Pomona-Pitzer	Caltech
Sat.	1-13	8:00 pm	Basketball (V)	Pomona-Pitzer	Caltech
Wed.	1-17	6:00 pm	Basketball (JV)	Claremont-Mudd	Claremont-Mudd
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The Inside World

Fleming

Welcome back from Christmas vacation. So, in the spirit of Christmas, let's start things right up for all of you who didn't get a new FOOOOton for Christmas with our first top 10 list of the year:
 Top Ten People Who Don't Want To Be In The Inside World And Things That Piss Women Off

10. Men who leave the seat up after using the toilet.
9. Getting a ten ton weight dropped on the head.
8. Jennifer (pick one, any one).
7. Open sewers (like the Inside World...)
6. The Little Yellow Ice Cube.
5. Mr. Animal Husbandry (no offense, Foo).
4. Buddy #2.
3. Madame Hoover (more on this later).
2. Our Fearless President. [I SAID I don't want to be in the IW!! --Y.F.]
1. Men who leave the seat down while using the toilet.

Well speaking of food service, have you noticed how most of Alley Six is either off board or not? Speaking of clueless, I think Mad Dog Maddux would make a fine Social Chairman. As long as he can arrange more trips to the Bowling Rink that is... ("Okay everyone, there's gonna be 50 screaming naked blonds at the Skating Alley tonight, so bring your ten-pound balls and we'll do some laps...").

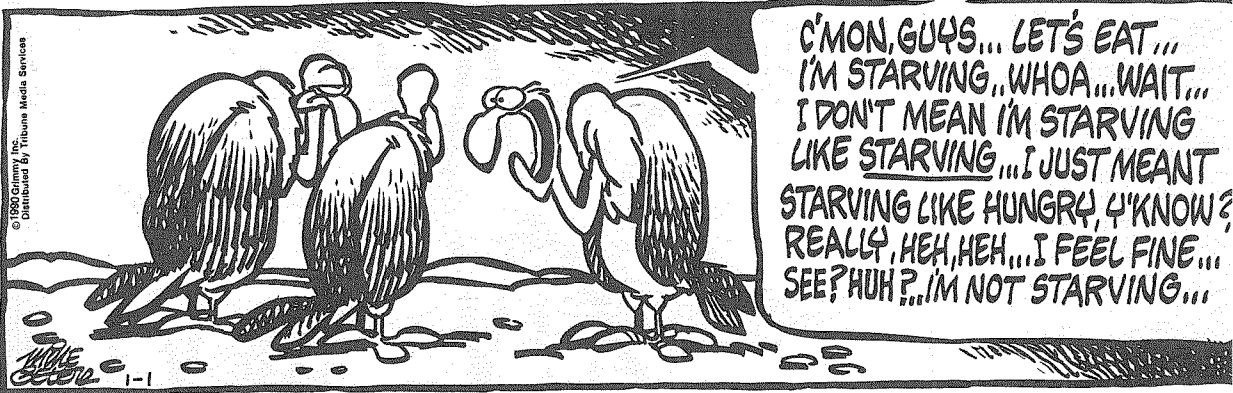
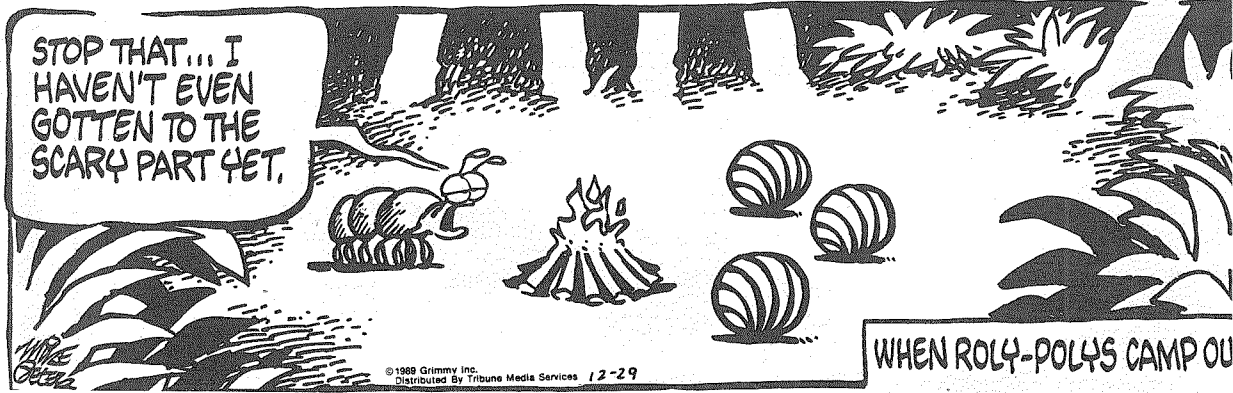
At any rate, I was going to put in another top ten list here, but I've been informed that you can only have one top ten list per inside world. So here's

- Top Six Recent Quotes And New Year's Rockin' Party Hotspots
6. AM/PM mini-market--but only between 5 and 6 AM.
 5. 8 1/2--but only if they're not back yet.
 4. "Why is it getting hard?" (A Buddy's relative)
 3. "I'm too young to feel this old." (Who said this? It's lame.)
 2. In my pants (I only wish I'd known then...)
 1. "Fuckin' fuck fuck goddamn." (Buddy #2)

This weekend's Social Event is Puking in Ruddock Courtyard. Be there and bring your rubber socks. There's a bunch of stuff on this cryptic note that I'm supposed to put in here, but I can't quite make it out. What does STEVE+JEN+MARK=LIVE BAIT mean? Well, enough of this nonsense. The following Top 13 list is true, but the names have been changed to get a laugh.

- Top Thirteen Excuses B*g B*ll Had The Next Morning
13. It's just a bad tan.
 12. I fell down the stairs and bit myself.
 11. They told me the ink would wash off.
 10. I'm a poster-boy for Hoover.
 9. It's an allergic reaction to sweat.
 8. I was attacked by a toothless vampire.
 7. I tripped and fell under a milking machine.
 6. It was better than the alternative.
 5. I picked a fight with an octopus.
 4. I tried to give blood without a needle.
 3. Have YOU ever shaved with a Dustbuster?
 2. I mistook an orangutan for my turtle-neck sweater.
 1. ...but you should see the chipmunk.

Well, I have to go to lab and I don't see anyone else around to finish it up, so let me offer you all some handy advice. Ditch day isn't tomorrow. It's Monday.
 -Young Fansome, Buddy ©2, and Not-Mike



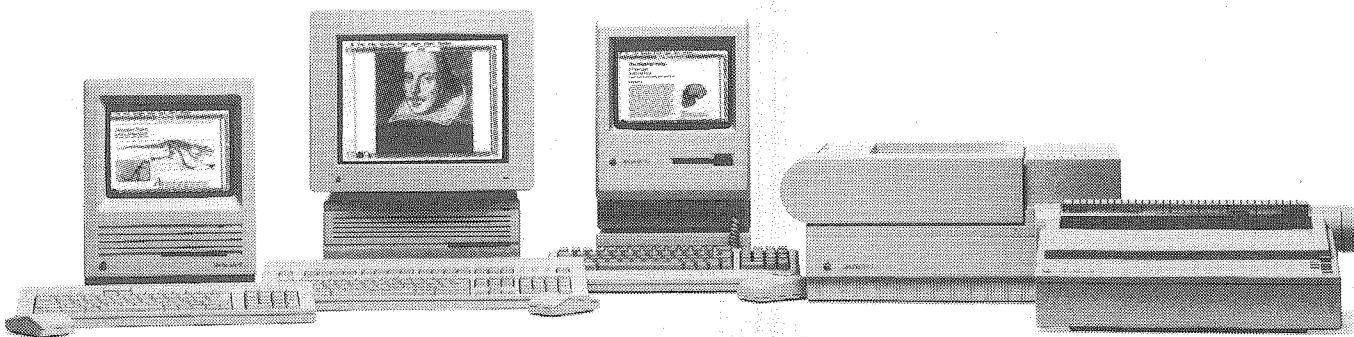
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The Inside World

Ricketts

Well now, wasn't that a pleasant change of pace last week? I think that is enough of the guest columnists for a while though. Maybe we'll hear from the Bust after Dick Bob releases it from its exile.

We will be experiencing a modification of the format this term, as in responding to reader reaction certain of the less popular segments will be B'edTTH. However, in the interest of not leaving all of you who have waited a month for the answer to the last Question of the Week hanging forever (hah! I laugh in the face of English teachers everywhere), the answer is one. There is only one in the universe. It's sort of like the one electron theory.

I would like to congratulate all of the frosh, who are now showing definite personalities in all quarters. Keep up the good work and keep meeting those upperclassmates. (Note official non-sexist language.)

The computer room has been infested by yet another set of beginning of the term games. The carnage in ruined 'mechs and **SLAUGHTERED** monsters is truly horrific. Spinning bits of Tie-fighter and pipes have also been seen. Remember, only you can find a real flick worthy of your time.

It's a real pity that Louie and the Kiewiet committee weren't at dinner on Wednesday to see what civilized, mature members of the Caltech community are like. I feel confident that much of the misunderstandings of late would have been resolved. Certainly Plu would have turned an even healthier shade of purple. At least now Kitt has an example to follow for next time.

And now, the most important part of the RHIS

Rude/Slander Bavarian Loveeat:

Pablo is, in fact, still a frosh. Gonzo seen being chased around the house by an enraged woman yelling "Relationship! Commitment! White picket fence!", while he screamed in horror and fear. The one problem with having Ross hang around Ricketts instead of Dabney is that now he gloms our frosh instead of theirs. That's what we get for letting such an immoral influence around our house. However, since he's doing the musical this term, he can hang out with Dave Stevens, Actor, and the other TACIT types. Rumor has it that Russ did in fact make it home with Mitch, but will he ever make it back to Tech? Dan Lipofsky seems to have failed his Mole tryout in a valiant attempt to save the Gong with a screwdriver and paperclip. The other two frosh Dans just heard **Stairway to Heaven** for the first time today. Seems they had only heard the Isle Thang previously. Brian Brandt: Force for Good or Evil Biologist in Training?

Well, it seems pretty uninteresting around here this week. Everyone better be more interesting next week or I'll really start to make up some rude stories.

Week 14 of the Bust o' Justice's captivity. Write your Congress-type now.

-The Physics Messiah and (Help Wanted)

Dabney

Well, who would have thought that Snow White and the Seven Dwarves (translation: the editors) would have been able to send out a paper in three days? Certainly not I. This Inside World was sitting in my computer half-written when I heard about it. Oh, well. This column may be a bit dated, but at least I think it's still funny. Rumor has it that there are fans of my Inside World in Ricketts. Is that really true?

I hope that everyone had a nice winter vacation. After all, if you can't go home for two weeks and fight with your parents, you really don't feel like you're alive, do you? It seems as if all our freshmen made it—and none of the sophomores handed themselves after getting their first report card—or haven't you picked it up yet? We completed most of the house business at the ExComm Meeting, but just when are we going to paint over that graffiti? We had our first roompick on Thursday, but Dabney, the House of Frequent Roompicks, is living up to its nickname because there's going to be another roompick on Monday! (A roompick a week. That's all we ask.) Do you think I can beat my record seven-minute roompick? Maybe Swagato will set his alarm clock this time!

The Three Stooges (i.e., front-running presidential candidates) are already maneuvering into position, gathering their constituents together, doing lots of "political" things, courting the undecided. And with elections over two weeks away! Remember, whoever has the most Darb votes or the most negative reaction from the administration wins! I wonder which one is going to get the transvestite vote? Of course, since Diana mistook Dirk for Steve Anderson recently, maybe we already know.

Speaking of Dirk, why doesn't he use beans to give his breasts added texture? I'll admit, though it was once shocking to see Dirk parading around in a bra and girdle, now I realize that he is no less repulsive a woman than he was a man. No, Dirk, that's not a compliment.

Lots of rumors are flying about different couples in the house. Jon McGill supposedly is living with the March Playmate of the Month in his room. Their screams are so intense that they have to turn up the television. Harold says this is false, claiming that "I haven't noticed any TV or any screams, and I do pay attention, for I notice Betsy's." Really, Harold? Supposedly, Seth and Amy were having conferences about certain sinful activities, conferences caused by their roommates' simultaneous desire to dump them. (Isn't the timing of that a little odd?) However, it seems that neither Seth nor Amy is willing to budge from his/her room to join the other. (That too is odd. They certainly spend enough time out of their rooms in the Alley 4 kitchen!) Of course, Seth's overwhelming desire to keep the flame room runs exactly counter to Allen's and Reneau's desire to keep Seth's voice from penetrating their bedroom.

Jon H. supposedly has an Indian sex slave from Ricketts in his room. Watch out, Jon. We all know what happened at Apache last year when we put leashes on women. Somehow this fascination has become so intense that Jon has become fascinated with throwing himself off cliffs. Brian L. has supposedly gotten engaged to Sony! (why would anyone have an exclamation point in her name?), his incredibly wealthy Filipiness pen pal.

This is a waiters' public service announcement: To any and all people who stay an inordinately long amount of time after dinner (you know who you are, Seth and Amy [there's those two names again!]): if you persist on chewing each bite of your food one hundred times before swallowing, the waiters will make you bus your own table. In addition, they will put a gag in your mouth and begin feeding you through a tube in your nose so that you won't stay so long and delays due to excessive talking will be unnecessary.

The social events of the weekend are the following: the Mountain Trip (with the mythical Pies of Doom) Saturday, and **BOWLING** Sunday! And there will be transportation to these events, or Rob is going to commit several counts of murder (unless we get to him first).

Though I know by now it's so late in the year that none of them will be kept, it's still my duty to report:

Dabney House New Year's Resolutions

Reneau: To stop checking men for erections whenever I enter a room.

Gaby: To relearn all of the American gutter slang I forgot over my Christmas vacation.

Jon H.: To go to class, no matter what my glands tell me to do at all hours of the day.

Swagato: To advance the time period of my coiffure one decade per term until I reach the nineties next fall.

Mark: To make crew leader at Del Taco and to stop gardening in public.

Ivar: To stop using Valium to control the outcome of roompicks.

Pete: To take an assertiveness training seminar: "How to Say 'No' and Mean It."

Rob H.: To maintain my weight and to pay \$1 to each of the people who didn't think I could bring 60 women to Dabney.

Dabney House: To welcome Louis Wilde into our hearts.

David E.: To stop cutting people down to size in the Inside World (oh, well, I guess that one lasted as long as the rest did).

-Darbon Monoxide

Korean-American Students

The Korean-American Student Association meets on alternate Mondays at 8 pm in SAC Rm. 13 (Clubroom A). The second term meetings will begin on January 15, and follow every two weeks. All members, and those who want to be members, are encouraged to attend. As always, there will be free munchies. Please contact Dong-su Kim at x8309 if you have any questions.

Let The Games Begin

Every Friday night, the Caltech Gamers meet to enjoy role-playing and board games. Friday meetings are in Winnett Clubroom 1 at 8:00 pm. Meet others who share your interests. All welcome! Most common Friday games are fantasy role-playing, but it's a good time to find players to share whatever games you like.

Voices Needed!

On March 23, 1990 the Caltech Men's Glee Club will perform Argento's *The Revelation of St. John the Divine* for the Intercollegiate Men's Choral Festival in Santa Barbara. This annual event draws together the best men's choirs from all over the country. Caltech will be a featured chorus at this year's festival. We welcome all those interested in singing, regardless of what you think of your own ability. Please call Don Caldwell at x6197 ASAP.

Ballroom Dancing Is Back!

Starting Jan. 16, ballroom dancing lessons will be offered every Tuesday from 4-5 pm in Winnett, through second term. They will cost \$20 for students and \$30 for non-students. Partners or singles should sign up in the Caltech Y soon, since space is limited.

Gay/Lesbian Discussion Group

On the 1st and 3rd Tuesdays of each month, all students, staff and faculty are invited to an ongoing discussion of Lesbian/Gay topics, from 7:30 to 9:00 pm. The next topic is: Activism—If, how, and by whom. After this, time is devoted to informal talking, with refreshments provided. This confidential meeting is held in the Health Center Conference Room; call x8331 for further information.

Technological Equestrianism

The Caltech Non-existent Equestrian Team is still showing exciting horse videos at lunch time. On Jan. 15th we will show the 1986 World Cup (with very big jumps). Ass usual, 12-1 pm, Rm. 19 Baxter. Bring your own lunch. Questions, comments, etc.—call Liz at x4515 or Victoria at x3828.

Be In The Top Ten

Caltech juniors are invited to participate in *Glamour* magazine's 1990 Top Ten College Women Competition.

Glamour's prestigious competition honors college juniors of outstanding achievement. This year's winners will be selected from five distinctive categories: Creative Arts/Communications/Humanities, Science and Technology/Health, Politics/International Relations, Business and Economics/Entrepreneurship, and Public Service. Candidates will be judged on academic excellence, involvement in community or campus activities, and personal interests.

Ten winners will receive national recognition in *Glamour's* October 1990 issue and in media across the country. Contact the Dean of Students Office for information. Deadline is February 1, 1990.

L.A. Philharmonic Tickets

The Caltech Y has L.A. Philharmonic tickets at \$5 each for the following dates: Jan. 17, April 1, 8, 15, 20, 27. Come by the Y for venue info.

OASIS Galileo Talk

Robert Gounley of JPL will present a lecture on NASA's unsinkable Galileo project. Included will be details of the mission plans for scientific investigation in transit to and at Jupiter. This free lecture on Saturday, January 20 at 7 pm, is brought to you by OASIS, a chapter of the National Space Society. The lecture is hosted by JPL in the Von Karman Auditorium at 4800 Oak Grove Drive. For more information, call (213) 374-1381 or (818) 568-0546.

Speech & Debate Coach Needed

The Speech and Debate Teams are looking for a coach. This is a paid position open to faculty, staff, graduate students, or experienced debaters. Experience is preferred. Contact the Debate Team at 100-58 or Craig Volden at x3762.

German Film

There will be a showing of *Abscheid von Gestern* (1966) in Baxter Lecture Hall on Wednesday, January 17th at 7:30 pm. There will be an introduction and discussion after the showing. This film by Alexander Kluge shows one of the life stories from his book called *Resumes*, written in 1962. The film shows an aspect of postwar Germany in a realistic manner without an outright criticism of society. All are invited.

The Depths of Dumbth

On Tuesday, January 16th at 8:00 pm, author, composer and comedian Steve Allen will present the lecture "Dumbth: and 81 Ways to Make Americans Smarter," in Beckman Auditorium. This presentation of the Southern California Skeptics has a ticket price of \$8.00. For information call (213) 283-9773. [For those of you not familiar with this group, they are a non-profit organization devoted to the fostering of clear and critical thinking and appreciation for the methods of science. Over the years they have helped debunk many "pseudo-scientific" and other frauds.]

Flight Team Needs Members

The Caltech Flying Team needs members for the 1990 competition season. The team competes against other schools in precision flying events (not races). There are also non-flying events, such as aircraft identification, aircraft preflight, and general aviation knowledge. There are two competitions this year: in February at nearby La Verne, and in April in Sierra Vista, Arizona. These events are always lots of fun for all involved. An organizational meeting will be held Monday, Jan. 15 at 7:30 pm in 114 E. Bridge. Pilots, student pilots, and other flying enthusiasts are encouraged to attend. For more information contact Barry Sheehy (x4848), Jim Kaufman (x3807), or Kevin Condroski (577-6645).

Play Bridge

Play bridge at the Caltech Bridge Club this Monday. We meet every Monday at 7:15 pm at the Red Door Cafe in Chandler Dining Hall. No card fee, no membership fee, no partner needed. Undergrads, grads, faculty, etc. welcome.

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Submit announcements for *What Goes On* on forms available outside the Tech office (SAC room 40A) and in the copy/mail room (SAC room 37), or use a plain piece of paper. Send announcements to 40-58, or put them in the IN box outside the Tech office. Indicate the date(s) the announcement must run. Announcements for the current issue must be received by 5 pm Tuesday and should be shorter than 75 words. Announcements will be published as space becomes available and will be chosen according to size and interest to the Caltech community. Announcements for commercial events unrelated to Caltech will not be published.

Musicians Take Note

Confused about MU22 and MU35? Don't be! Their times flip-flopped. MU35 (Music History of the Late Romantics) is meeting TTH, 1-2:30, Rm. 25 Baxter. MU22 (Form in Music) is TTH, 3:30-5 (by class demand), 25 Baxter. There is still some room in both if you want to add by Tuesday, Jan. 16.

Terry Gilliamathon

On Saturday, January 13, the Caltech Science Fiction Club will hold its "Full Moon" Film Festival tribute to director Terry Gilliam (of Monty Python fame). Films will include, in the following tentative(!) order: *The Adventures of Baron Munchausen*, *Brazil*, *Time Bandits*, and if anyone really, really wants to watch it (ha!) *Jabberwocky*. The films will begin promptly (yeah!) at 7:00 pm in the Catalina III grad dorm rec. room. Remember, we're all in it together, kid...

Attention Muslim Community

The place and time of Friday prayers have been changed to SAC Rm. 34 at 12:15 pm. Any questions, call Zulfiqar at 578-9924.

Pasadena Symphony

Shostakovich Symphony #7 will be performed by the Pasadena Symphony on Saturday, Jan. 13, 8:30 pm at the Pasadena Civic Auditorium. Tickets are \$4 apiece, available at the Y (second floor Winnett).

Upcoming Folkdancing Events

Folk dancing on Tuesday nights in Dabney Hall Lounge. Teaching from 7:30-9:00 pm, with dancing from 9:00 to 11:30ish. On January 30th, we will have Jaap Leegwater, internationally-known folk dance instructor, as a guest teacher. Join us on Feb. 6th for our first "Beginners' Night." A great way to get started. Last but not least, come on February 13th for our 21st Anniversary/Valentine's Day Party, with live music.

Speech And Debate Meetings

Debate meetings and meetings for the Speech Team will be held Mondays from 4:30 to 5:00 this term in SAC Rm. 13. [NOTE THE CHANGE OF ROOMS!] Meetings will be for information, tournament registration, and practices. For more information, contact Craig Volden at 1-60 or x3762.

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Medieval Renaissance Society

The Caltech Medieval Renaissance Society will meet on Sunday, Jan. 14 at 6 pm in or around Winnett Lounge. Potluck: bring food if you can. Meeting will include planning for the Estrella War, president's day weekend in Arizona.

Folk Music Society Concert

Carla Sciaky and Kim Wallach will grace Dabney Hall Lounge on Saturday night at 8:00 pm. General admission is \$8.00, \$4.00 for Caltech students. See article elsewhere in this issue.

Attention Writers!!!

The Literature Faculty is pleased to announce the 44th Annual McKinney Competition. The Mary A. Earl McKinney Prize is awarded each year for excellence in writing. Only full-time students officially registered at Caltech as undergraduates are eligible to enter the competition. This year three prizes will be given in three categories: poetry, prose fiction, and non-fiction essays. All submissions must be typewritten and double-spaced. In the poetry category, entrants may submit up to three poems. Submissions of prose fiction should not exceed 12,000 words. Essays may be ones prepared for a humanities class or any good piece of original writing on a topic relevant to the humanities. The prize in each category will be \$250.

Each student is entitled to only one entry in each category. All contestants must submit their work to Professor Jenijoy La Belle, Division of the Humanities and Social Sciences, by no later than April 20, 1990. No entries accepted after 5 pm, April 20. No entries will be returned. Each category will be judged by a committee from the Literature Faculty. Essays will be judged on the quality of thought and the effectiveness of the writing. Winners will be announced the last week of May, and the names of the winners will appear in the commencement program. The Committee may divide the award in each category in case of more than one outstanding submission. Previous winners in any one category are not eligible for the competition in that category.

If you have any questions, contact Dr. La Belle, x3606, or Odessa Myles, x3609.

Jesse Unruh Fellowship

The California State Assembly offers one of the oldest and most prestigious legislative fellowship programs in the nation. Up to eighteen individuals are selected nationwide to spend 11 months (October 1990 through August 1991) in the Assembly as legislative aides and committee consultants.

Applicants must have completed a BA or BS degree by the time the fellowship year begins. There is no preferred major. Recent Fellows have had backgrounds in such diverse fields as aeronautics and astronautics, development studies, rhetoric, religious studies, law and biochemistry.

In addition to paid enrollment in the graduate seminar, Fellows receive a monthly stipend (\$1560 plus periodic cost-of-living adjustments) and medical, dental and vision coverage.

Completed applications must be received no later than February 15, 1990. For applications, contact the Dean of Students, 102 Parsons-Gates.

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Caltech Environmental Task Force

A new environmental group is being formed. It will design programs that will make it easier for the Caltech community to have a more environmentally conscious lifestyle, and to encourage the administration to adopt policies that enhance both the local and the global environments.

Are you concerned about waste at Caltech? Do you have ideas for improving our interaction with the environment? Come join us at our first meeting: 12 noon, Wednesday, Jan. 17th, Clubroom 1 (2nd floor Winnett, above the bookstore), or contact David MacKay, x6114, or by computer at mackay@aurel.cns.caltech.edu.

Atmospheric Research

The Atmospheric and Oceanic Sciences Program of Princeton University invites college juniors and advanced sophomores to apply for a summer program of research intended to provide an opportunity to explore career interests in the atmospheric and oceanic sciences. There is a possibility of working with scientists currently at the leading edge of research on a variety of topics, including the ozone hole, acid rain, El Nino, climate change and extended weather forecasts. While students from all the sciences are encouraged to apply, course work and/or previous work experience in physics, mathematics, chemistry and computational sciences would be particularly valuable. The expected research, which may involve theoretical analysis, numerical modeling and the analysis of actual observations, ranges extensively over areas such as the dynamics of atmospheric and oceanic flows, climate sensitivity, air-sea interaction, atmospheric chemistry and the carbon cycle.

Students accepted into the program are provided with paid room and board on the university campus and a stipend of \$1200/month for the two months from mid-June to mid-August 1990.

Applicants should send a resume, two letters of reference, a college transcript, and a short essay discussing background and reasons for interest in the program to: Dr. Jorge L. Sarmiento, Atmospheric and Oceanic Sciences Program, Princeton University, P.O. Box CN710, Sayre Hall, Princeton, New Jersey 08544-0710.

Leadership America

The International Leadership Center is seeking applicants for the fourth session of Leadership America, a summer program which will begin June 8 and conclude August 16. During that period, the students will attend sessions that take place at Duke University, Colorado Outward Bound, Southern Methodist University, and in Washington D.C. In addition, there is a four-week, self-selected internship in business, government, or community service followed by a closing session.

Students incur few expenses in Leadership America, since most costs are underwritten by corporate sponsors.

To be eligible for selection to Leadership America, a student must be currently enrolled in a four year (or more) undergraduate program and have completed the junior year of this program by June 8, 1990.

The primary criterion for selection is that a student have an "outstanding potential for leadership." Selection will begin in February, 1990, and invitations will be extended mid-March.

For additional information about Leadership America, contact the Deans' Office, 102 Parsons-Gates, x6351. Applications for this program must be returned to the Deans' Office no later than Monday, January 29, 1990.

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Scholarship Listings

The Financial Aid Office has applications and/or information on the following scholarships. All qualified students are encouraged to apply. The office is located at 515 S. Wilson, 2nd floor, phone x6280.

The College Women's Club of Pasadena is offering scholarships for 1990-91 to current sophomore and junior students. The amount of the award is \$2,000, which may be used for tuition/fees, textbooks, and lab fees. Full-time graduate students may apply for fellowships of \$3,000. Submit applications, with transcript, current course list and three recommendations to the Financial Aid Office by February 1. One undergraduate and one graduate student will be selected from the applicants to submit to the College Women's Club by their deadline.

The Gloria Fecht Memorial Scholarship Fund is offering a scholarship of ranging from \$1500-2000 to a young woman attending a university in California or Arizona. Applicants must have an interest in golf and financial need. Applications must be mailed on or before March 1st.

The Coors Veterans' Memorial Scholarship Fund is offering scholarships ranging from \$2,000 to \$5,000. Applicants must be sons or daughters of Honorably Discharged Veterans, active military personnel, or American service personnel Killed in Action, Missing in Action, or Died in the Line of Duty. Applicants must also be under the age of 22 as of March 15, 1990, have completed a minimum of one semester of college with a minimum 3.0 cumulative GPA. Deadline is March 15, 1990.

The National Roofing Foundation is pleased to announce the availability of scholarship awards for 1990-91. Full-time undergraduate and graduate students enrolled in architecture, engineering or other curriculum related to the roofing industry are eligible to apply. Deadline is February 1, 1990.

The Society for the Advancement of Material and Process Engineering is offering numerous undergraduate scholarship awards. Engineering students with a minimum 3.3 cumulative GPA are eligible. Deadline is February 1, 1990.

The Sylvia W. Farny Scholarship has a grant of \$1,000 to be awarded to a student for the final year of undergraduate study. Applicants must be U.S. citizens and studying Mechanical Engineering. Deadline is February 15, 1990.

The American Society of Naval Engineers sponsors a scholarship program to encourage students to enter the field of naval engineering. Scholarship awards of \$2,000 each are available for the 1990-91 academic year. Undergraduates in their final one or two years and graduate students who have not received an advanced degree are eligible. Applicants must be U.S. citizens and demonstrate a genuine interest in naval engineering. Financial need is not required, but may be taken into consideration. Deadline is February 15, 1990.

The Arizona Honors Academy has an opportunity for undergraduates to discuss important world issues with writers, sociologists, national security officers, historians, physicists, and arms negotiators at their summer session entitled "Seeking National Security in an Insecure World." Applicants must be undergraduate students who have completed 27 semester hours with a minimum cumulative GPA of 3.5. Deadline is February 15, 1990.

The Society of Women Engineers has 29 scholarships varying in amounts from \$1,000 to \$3,000 for 1990-91. There are different requirements for each scholarship. Undergraduate women majoring in Engineering are encouraged to apply. Deadline is February 1.

The Korean American Scholarship Foundation has seventeen \$1,000 scholarships available for full-time students of Korean American heritage. Applicants must be in at least their sophomore year. Deadline is January 31.

The California Angels have created the Jimmy Reese Scholarship Fund. Scholarships of \$1,000 each will be awarded to an applicant currently studying in the area of sports medicine. Residents of Orange, Riverside and San Bernardino counties who are currently enrolled and in good standing at either the undergraduate or graduate level are eligible to apply. Awards are based on academic achievement as well as commitment to enhancing the field of Sports Medicine. Deadline is March 15.

The National Federation of the Blind has eight scholarships available to legally blind persons in either undergraduate or graduate level. Each scholarship has different requirements, so interested students should contact the Financial Aid Office. Deadline is March 31.

Career Development News

duPont is actively seeking qualified BS and MS level synthetic organic chemists for a number of new research openings.

The U.S. Department of Energy has 1990 Energy Research Opportunities. The program is for juniors and seniors who are U.S. citizens or permanent residents. Majors include engineering, physical and life sciences, mathematics, computer science, or social science. Applications are due by January 16.

The Leaders for Manufacturing is a partnership between MIT and eleven U.S. manufacturing firms to discover and translate into teaching and practice principles that produce world-class manufacturing and manufacturing leaders. Applications are due by January 16.

Boston University School of Medicine is announcing Pre- and Post-doctoral Fellowships in immunology. Pre-doctoral positions are available for students who wish to begin their studies in July or September, 1990.

The Career Development Center has more information. Drop in at 08 Parsons-Gates or call x6361.

Nuclear Training Scholarships

The National Academy for Nuclear Training Scholarship Program is offering \$2,000 scholarships for students who will be sophomores, juniors, and seniors during the 1990-91 school year. To be eligible, a student must be a U.S. citizen, enrolled full-time, and pursuing a bachelor's degree in nuclear engineering, power generation health physics, or a nuclear/power option in such disciplines as chemical engineering, electrical engineering, or mechanical engineering. The scholarships are given on a merit basis to students who have excellent academic records as well as demonstrated interest in and potential for a career in the nuclear utility industry. For more information, contact the Financial Aid Office at 515 S. Wilson. Completed applications are due January 15, 1990 and should be submitted to Dr. Noel Corngold, Mail Code 1218-95.

Japan-America Conference

Positions are available on the American delegation of the 1990 Japan-America Student Conference (JASC). JASC is an internationally coordinated program for university students held alternately in the U.S. and Japan. The program is held in English. This year's program will start in Anchorage, move to Seattle, and conclude in San Francisco. There will be an orientation in Portland before the program. JASC is open to any student who is a U.S. citizen or has permanent resident status. Application deadline is February 23, 1990 for this summer's program. The Career Development Center has more information and applications. Stop by at 08 Parsons-Gates.

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