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# The California Tech

the  
grapevine

VOLUME LXXXIX NUMBER 12

PASADENA, CALIFORNIA

FRIDAY 15 JANUARY 1988

## Student/Faculty Conference Committees Disperse

by Tylis Chang and Stephen Lew

The 1988 Student/Faculty Conference was cancelled due a lack of suitable material, according to Conference Co-Chairmen Bibi Jentoft-Nielsen and David Bruning.

The committees created for the conference (Art Gallery, Athletic Facilities, Freshman Admissions, Curriculum Reform, Housing, Non-Science Curriculum, Student/Faculty Relations and Student Government Reform) will continue to exist; but chairmen Bruning and Jentoft-Nielsen, along with Dean of Students, Gary Lorden, decided Wednesday that the reforms proposed by the committees could be enacted without calling the entire faculty and student body together.

Many of the committee recommendations were not controversial enough to bring to the conference. For example, nobody opposes a restructuring of the student parking situation to improve the accessibility of student spaces. However, most of the solutions which are being considered by the Housing Committee can be implemented without a conference meeting.

Similarly, few people oppose the acquisition of racquetball courts, as suggested by the Athletic Facilities Committee. Again, there are mechanisms which exist that are more appropriate than the committee.

Other student interests do not fall in the realm of faculty concerns. The Student Government Reform Committee is attempting to identify problems in the system of student representation. However, few faculty other than the Deans and the MOSH expressed a willingness to examine the problem.

Finally, many of the concerns of students are similar those of the 1986 Conference. In particular, the Curriculum Reform Committee finds that many of the problems that they have identified were in the previous conference reports.

Faculty committees are still

working on concrete systems which resolve the problems. For example, the Chan report's 30-40-50 plan has been accepted by the faculty board. Its implementation, however, is hampered by the difficulty of reducing specific option requirements.

There will be a meeting in the MOSH's office at 8:00PM on Wed. Jan 20 to discuss the S/FC. The committees will continue to work to implement their recommendations.

## LA Times selects significant individuals:

# Media Recognizes Caltech Professors

by Ian Dutton

Sunday, January 10, the *Los Angeles Times Magazine* ran a front page feature, "88 for 1988: Rising Stars Who Will Make a Difference in L.A. This Year." The names of the 88 individuals selected "may not resound in every Southern Californian household," but the people chosen are good bets to be the leaders in their fields in the coming century.

Among the politicians, athletes, designers, and other people representing all walks of life, were four Caltech faculty members and one JPL employee. In comparison, UCLA and USC were each represented by just one faculty member, and no other colleges had any faculty representation at all.

Joe Kirschvink, associate professor of geobiology, mentioned that he was "surprised" to be chosen. His work involves "animal magnetism" - literally. He has proven that animals respond to magnetic fields, thus allowing them to use the earth's magnetism to navigate.

According to the *Times Magazine* article, his work may eventually answer questions such as how bees can lead others and how homing pigeons find home.

John Hopfield, a professor of chemistry and biology, is using his



Cheerleaders lend many hands to the basketball team with their enthusiasm. In the front are, from left to right, Susan Schima, Kate Loomis, Emily Lo, Samantha Seward, Melinda Knox. In the back are Eric Scharin, Dave Amezcua, Cliff Kaiser, Andrew Stevens.

photo by Michael Keating

background in these fields to do research into neural networks. He is among many scientists trying to make computers more human-like.

The *L.A. Times Magazine* mentions that he has "shown that computers can detect - and make allowances for - incorrect words or numbers entered by humans." Computers that can think on their own, make their own decisions, and develop their own conclusions obviously have unlimited potential in today's world.

Kerry Sieh, a geology professor, was included among the 88 for his involvement in the unsteady science of predicting earthquakes and was of particular interest to the *Times* staff. He is involved with looking at past geological occurrences in order to make predictions about the future.

One specific area of research he is currently involved with, entails digging trenches along faults (the San Andreas in particular), and looking at the sediment layers to get records of ancient seismic activity. "When you're dealing with an event that has periods much longer than man's ability to record the event, you need a way to extend your records," Sieh pointed out.

He continued by making an analogy between his line of work

and that of a stock market analyst: the analyst can look back at similar trends in the past in order to make reliable predictions about the future, and that is exactly what he may do.

There is an element of luck in making predictions, but so far he has been fairly successful, including a fulfilled expectation about November's Imperial Valley quake.

One very interesting bit of information that Dr. Sieh brought up was right out of an article of his which is set for publication next week. In it he reveals, forebodingly, that out of the last ten major earthquakes in the Los Angeles area, there has been one every 131 years on average... and the last one was in 1857. He was quick to note that this wasn't any sort of prediction, but it was interesting that the statistical day for the next major earthquake passed just this Sunday!

Future plans and hopes for Dr. Sieh include studying a string of relatively young volcanoes near Mammoth Mountain in central California and researching the ge-

ology of the Caribbean.

Daniel Kevles is a humanities professor whose projects sound more like those of any other science professor. He received his bachelor's degree in physics and then went on to get his doctorate in history, and now is a historian of science.

He often writes articles which concentrate on the social and political history of science in the United States, and is now studying "the attitude of the legal system towards genetic engineering." In particular, he is researching the background of transgenic animals - ones that have been altered by the introduction of foreign genes.

Although many people have expressed surprise that someone from Caltech's H/SS department was chosen, Kevles said that it shouldn't surprise anyone. He feels that the department is one of the "hidden treasures of Caltech." He also mentioned that Tech offers him a "great opportunity" to work, particularly in his line of study.

Even though his credentials ob-  
continued on page 3

## Dreyfuss Chair Named:

# Benton Honored by Trustees

[CNB]-John F. Benton, professor of history at Caltech, has been appointed the Doris and Henry Dreyfuss Professor of History by the Caltech Board of Trustees.

In announcing the appointment, Caltech President Thomas E. Everhart said, "The Doris and Henry Dreyfuss professorship was conceived in memory of two people who believed deeply in humanistic education. In John Benton we have one of the world's leading scholars in medieval history, and also a man whose breadth of interests makes him a humanist in the finest sense."

The Dreyfuss Professorship was initiated in 1977 by a bequest from the estate of the late Doris and Henry Dreyfuss of South Pasadena. Dreyfuss, an internationally known industrial designer, was a member of the Caltech Board of Trustees from 1963 until his death in 1972. He was also an associate

in industrial design on the Caltech faculty. His late wife, Doris, served as a member of the board of directors of the Caltech Associates, a support group. Friends and associates of the family raised the remainder of the money to endow the chair.

A much-honored medieval scholar, Benton was the recipient in 1985 of a MacArthur Prize Fellowship for five years. He has also held Guggenheim and Fulbright Fellowships. He has made headlines for his work with image-processing techniques developed for space exploration at Caltech's Jet Propulsion Laboratory, using them to read ancient, medieval, and modern manuscripts in which the writing had been erased or damaged, or had faded.

Some of his most recent work has included searching the archives of France for, and then editing, some 750 charters issued between

1152 and 1197 by Counts Henry I and Henry II of Champagne, and Marie of Champagne. He has been involved in studies of the correspondence between the famous tragic 12th century lovers, Heloise and Abelard, and has argued that Abelard wrote all of the letters as a literary fiction.

Benton has served as president of the Medieval Association of the Pacific, and is a member of the Council of the American Historical Association. The medieval scholar received his BA degree from Haverford College and his MA and PhD degrees from Princeton University. He was a Fulbright Scholar at Universite de Dijon. After faculty positions at Reed College and the University of Pennsylvania, he joined the Caltech faculty as assistant professor of history in 1965. He was named professor in 1970.

### Ascit Elections Timetable

Wed. Jan 13	Nominations open for president & treasurer.
Tues. Jan 19	Nominations close. <i>Tech</i> statements due.
Fri. Jan 22	Elections.
Tues. Jan 26	Runoff Elections (if necessary).
Wed. Jan 27	Nominations open for other offices.*
Tues. Feb 2	Nominations close. Statements due.
Fri. Feb 5	Elections.
Tues. Feb 9	Runoff Elections (if necessary).
Fri. Feb 19	Installations (at the Ath).

The nomination procedure consists of turning in a signed statement to Eric Scharin, ASCIT Secretary, 1-53, and putting your name on the sign-up sheet on the Master's Office door by Lloyd House.

\*Offices on the general ballot: VP/BOC Chairman, Secretary, IHC Chairman, Upperclass Director-at-Large, Freshman Director-at-Large, Director of Social Activities, Athletic Chairman, Activities Chairman, BOC Secretary, and *California Tech* Editors. A description of all these offices can be found in the *little t*. If you have any questions, contact Jeff Tekanic at x6236.

## California Tech Meeting Today

The staff of the *California Tech* will meet this afternoon in room 127 of Baxter Hall at 12:15PM. All persons interested in writing, news photography, or even editing are encouraged to attend.



entertainment

# Watch Bergman's Strawberries

by Drew Bailey

*Wild Strawberries* is an Ingmar Bergman's poetic film of self discovery. In a limited sense, *Wild Strawberries* is the story of one day in the life of Isak Borg, a 78 year old physician traveling by car with his daughter-in-law on his way to receive an honorary doctorate in Lund.

The film begins by Isak introducing himself and telling us he will relate what he remembers as honestly as he can. We then see and hear his story as if he were living it. Isak's dreams and visions on that day are revealed.

Bergman was influenced by the Swedish playwright August Strindberg's stream of consciousness work *A Dream Play*. *Wild Strawberries* has often been compared to the stream of consciousness novels of James Joyce and Marcel Proust.

The transitions between the real world and Isak's mind are simple cuts. There is no assumption of which world is more real. Each moment of the present is intimately connected with the past or the imagination.

*Wild Strawberries* is a conflation of three analyses which might

lead us to a fourth. It is Isak's analysis of his own life, Bergman's analysis of Isak Borg, our analysis of the previous two that may lead us to analyze our own lives in a new light. Through Bergman's direction and choice of images we can discern his analysis.

Because we are not strictly perceiving the world through Isak's remembrances, we see how he changes during the course of the film. His view of the world and those around him undergoes a profound adjustment.

Isak spent his life isolated from other people in the self-centered, secure world of the scientist. During a drive in his hearse-like car, he journeys through personal time as well as space.

Through his dreams and reminiscences it becomes clear Isak has not lived and is now worried about death. He has merely existed, alienated from those nearest him in fear of the pain that real closeness can bring.

Isak looks back on his life with regret. His life was filled with missed opportunities for living. He realizes from his daughter-in-law, Marianne, that he has perpetuated this coldness in his bitter son.

Isak is telling his story like a confession. During the film, we see his realization and acknowledgment of guilt and his small, but sincere attempts at penance.

Isak tries to tell his son to forget a loan which has become a symbol of hatred between them, but is misunderstood. He also tries to convince his faithful housekeeper of 30 years to use the familiar form of address, but is rebuffed. Only his Marianne seems to notice and forgive the old man.

Isak has forgiven himself to some extent. In his last dream, he visits his dead mother and father in a beautiful bright remembrance of their old home in peace and serenity.

*Wild Strawberries* is one of Bergman's great masterpieces, an existentialist study of loneliness and the sheer difficulty of living. Although sombre in tone it is a beautifully lyric film which does not condemn us to lives of coldness and loneliness, but rather asks us to consider the world as part of us not to be shut out without consequences.

*Wild Strawberries* will be shown Saturday in Baxter Lecture Hall at 7:30PM and 9:30PM.

## Hyperspace Revisited: A Techer's Hardware Adventure

by Nick Smith

*The Architects of Hyperspace* by Thomas McDonough Avon Books, 2.95

For nearly fifty years, Caltech alumni, staff and faculty have been both fans and authors of science fiction. The following writers were undergraduates at Caltech: L. Sprague De Camp, Larry Niven and David Brin. Several less familiar names were also once Techers. Now, another name has been added to the list: Thomas McDonough. An engineering lecturer for the last several years, he has recently published his first science fiction novel, and it's a good one.

*The Architects of Hyperspace* is

a rousing adventurous SF novel from the tradition of the old stories in *Analog*, but without some of the overwhelming Earth-is-the-center-of-the-universe attitude that sometimes spewed out of the John Campbell-edited magazines.

In *The Architects of Hyperspace*, McDonough postulates a future in which mankind has journeyed out into interstellar space without encountering any real signs of other space-faring species. Finally, an exploring ship finds an artifact...and it is BIG! If you enjoyed figuring out the orbital mechanics of Niven's Ringworld, you'll love this one!

Because McDonough did not want to be accused of SF pseudo-science, he added a technical afterword about the more bizarre aspects of the novel. All I can say without giving away some good surprises is...it looks like it works, but it is strange.

Anyway, because it is adventure SF, the novel includes a hero and a heroine, some requisite bad guys, and even a comic-relief

robot. The good guys are out to find out the great discovery that cost the life of the heroine's father, and the bad guys are out to make a fast buck at the expense of the universe. The characters are good, except for, perhaps, the flaw that some of them are a little too gung-ho to advance the boundaries of knowledge without living through the experience themselves. I have never met a scientist who didn't want to be around to gloat a little over a major discovery, yet there is a fine line between noble sacrifice and suicide.

When you pick up the book, there is a big disk-shaped city on the front cover. The thing that it is orbiting is a neutron star. McDonough uses a little hand-waving to handle one of the alien technologies that permits this, but it is necessary to the plot, and the story is worth more than such a minor quibble.

Overall, *The Architects of Hyperspace* is worth picking up and reading if you are into hardware adventure SF.

## Professors cont.

from page 1

viously merit his inclusion among the 88, he himself admits that there was an element of luck involved. Dr. Kevles pointed out that in the H/SS department here, many other faculty members are involved in major works that deserve the same kind of mention that he received; in particular he mentioned current projects by John Sutherland, Jenniroy La Belle, Eleanor Searle, and Robert Rosenstone.

Charles Eliachi is in charge of space/science research at JPL. His imaging radar system gives space shuttle astronauts vision that can penetrate layers of clouds, and even the topsoil of arid regions. The article mentions that his plans include using such technology to "learn about global phenomena" as part of a study on the Earth's ecological system.

Caltech president Dr. Thomas Everhart was obviously proud about the inclusion of so many Caltech faculty members, but didn't seem at all surprised. "It seems ap-

propriate that we have so many faculty members on this list compared to other schools. It really makes a statement about the quality of the professors and researchers," he stated. He made particular note that every one of the scientists listed were from Caltech/JPL.

Dr. Everhart also attributed Caltech's good representation on the fact that Caltech chooses faculty with innovative research ideas. The institute gives its faculty opportunity to work in new experimental fields, such as superstrings and neural networks, and thus quickly takes the lead.

This article by the *L.A. Times Magazine* underscores the fact that Tech's H/SS department is of equal caliber. It also points out that this will continue as the next century approaches. All of these people have taken the initiative to become the leaders in their respective fields, and they and others like them deserve the respect paid to them by the *L.A. Times Magazine*.

## IHC Mini-Minutes

IHC Minutes 10PM 13 Jan 1988.

1. An ultimate rule change: If the whistle is blown while the frisbee is in the air, the play ends when the frisbee is either caught or touches the ground. Motion passes 6-0-0.

2. Conrad's Corner

a. Worm (the loud, striped, short-legged cat) was given to the animal shelter. If she is not claimed within the week, she will be put to sleep.

b. The post lights near the orange walk have been smashed twice. Before they are replaced again, P-plant would like to know if the lights bother anyone.

c. Four houses have not had their second term room-picks. The MOSH's office would like them done ASAP.

d. Cars at the Constance and Lura houses need to be claimed [Mitch?].

e. Please give the MOSH's office two weeks notice on parties.

3. The Deans want nominations for Noland Leadership Scholarships.

4. S/FC is dead. Look for details in next week's *Tech*.

5. Discobolus track scoring changed from 5-3-2-1 to 5-3-1.

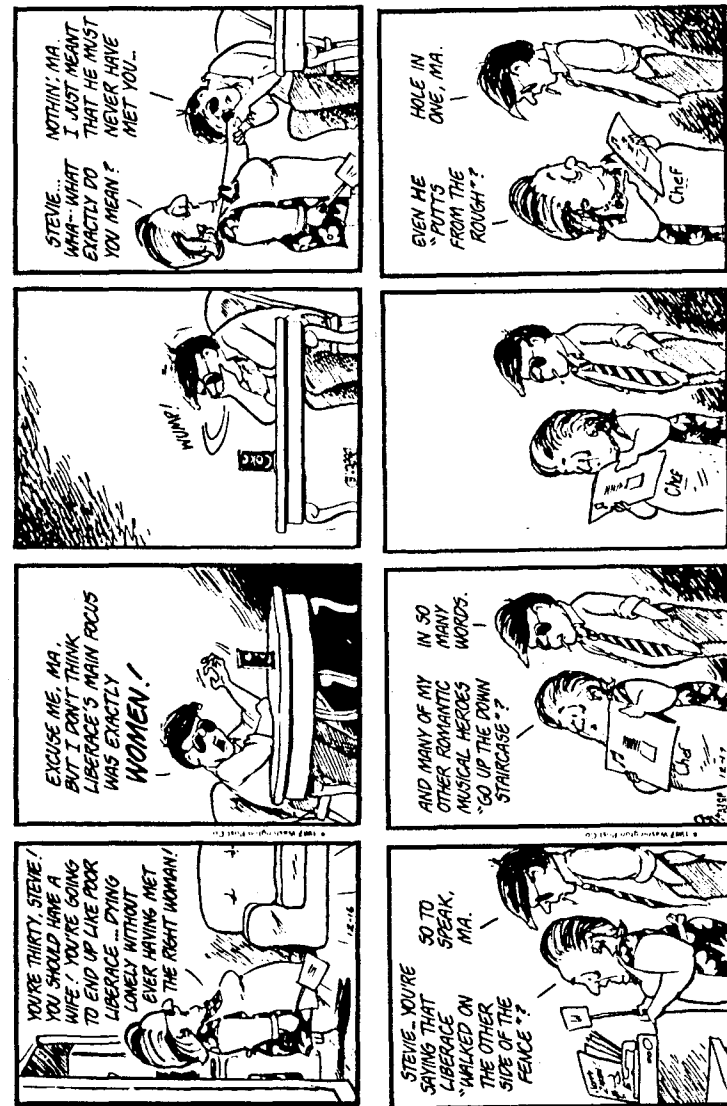
6. Amazing Jeff says...  
a. TQFR meeting will be on Thurs. [yesterday -Eds].  
b. Presidents should announce Elections [see front page].

7. After boat-loads of discussion on food, the IHC votes to stay with Gary 7-0-0. They also vote 4-2-1 to tell the "powers-that-be" to look into a Caltech run food service.

8. Official ultimate rules are coming (maybe next year).

9. Yet another ultimate rule change: Both offense and defense must freeze on a foul. Passes 7-0-0.

10. Brian still wants color photos [lest we have a Fleming-only *Big T* -Eds].



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# The Inside World

**Blacker:** The following has been reprinted and edited shamelessly without permission.

## The Stupid Essay

A Question that has never been answered: Why is it that Hawaiians always add "..., yeah?" to the end of any question? Example: "We go to Beef Bowl, yeah?"

A Question I thought I'd answer (or at least comment on). This summer when I was on the other coast (East), I kept seeing little town cemeteries. I asked myself, "Why is it that in Southern California you never see cemeteries except for the enormous Forest Lawn Cemeteries off the 110 freeway?" It occurred to me, that we Social-like peoples are afraid of the possibility of being mortal. To extend this thought, we ought to lay little stones in our courtyard in remembrance of those who have passed on due to excessive academic friction or those who we want future generations to remember.

I remember a time when moles were happy enough to be apathetic and didn't put on airs to impress other houses. Politics with other houses was practically non-existent and cliques ran wild. All these things have changed.

What does it mean when two people from the same dinner party get the same fortune in a Chinese restaurant? Does it mean the same if it's a Bazooka bubble gum wrapper?

As the air bands set up their equipment in the lounge, and strains of "Raiders of the Lost Ark" emanate from D.C.'s lips, I wonder once again if we will ever be able to eat lunch in the courtyard after it's all over (or does it ever really end?).

To put all of these thoughts in perspective I'll tell you about something that happened to me. So like, I was piddling along on my stupid little track one day last week, worrying my toes off about my own troubles, when BANG! The music changed from rock to romantic and the lights dimmed slightly. Disoriented, I wondered if my brain was still plugged in. I looked around for a clue from my other clueless companions. Then all of a sudden I knew. I realized that, in fact, my whole life was a sham and that I was merely an extra in the Mark and Alice movie.

-Turtle

**Dabney:** You better watch out, better not cry,  
Better not shout, I'm tellin' you why:  
init(frosh)

The term from Purgatory begins. The New Rules of the Inside World Game are:

1. No more DabniCorp®. The Adventures of Patrick J. Wayne in the 21st Century are now defunct.
2. No more hassling the nice folks in West Five, even if they deserve it. (Well, unless they really deserve it.)
3. No more "gaming clique" inside references unless I feel like it.
4. Never shall it be said that "Ditch Day is tomorrow." The paper comes out on Friday, and have a clue. Do you think we'd waste a perfectly good weekend to do strange things? Anyway, I lost the election, so I don't have a clue when Ditch Day is. Maybe they won't even have one. I don't know.
5. Impressionism and W.S. (the editors, weenies that they be, won't print the actual words) are encouraged.

Ok. So it begins. And what a beginning it is. Was. Rule 67(b)(iii) specifically prohibits Inside World Writers from mentioning roompicks. So I won't. But they happened. I was happy. PJS was happy. Golda was happy. Golda's dog was happy. Everyone else got screwed. The roompick was a success.

The X-Com had an X-Commune. Everyone was invited. A persistent rumor that initializations were to be immediately after the meeting did not fail not to be. It is decided to hold them tomorrow (you, the reader's tomorrow (does anybody actually read this stuff?), not me, the writer's tomorrow, or they, the X-Com's tomorrow). Creeping in this petty pace from day to day, it becomes another week, and we erect a new X-Com. R, L. what does it matter, so long as the L is not on the R (or else elbows might bump while eating). Where do you put your elbows during group sex, anyway? Be good to find out - the days are returning. Remember in the playpens with the mole, the frophior, and a certain scribe? Ask the Flems who had their windows open. Better yet, ask them about the subject in general - they must be authorities; the goings-on that I catch glimpses of in their "lounge" put the initiation of the playpens (three years ago, ask a certain Scurve) to shame.

The hot tub grew new forms of life over the holidays. It's thought that the Defense Department, already on our case for building nuclear weapons without a license, might get annoyed about our germ warfare. Somebody finally asked about the metal band on the palm tree, I'm so happy. There's hope for them frosh yet. (That particular frosh has been made exempt from execution tomorrow, but that's another story.)

Hzat dounds dike dis bezug he haz a code. When he sounds like anything at all. It's going around, so stay straight. Schen's fan club is having incredible success, but I won't really believe in her until you can get here for a party. (Anybody who can fit on a screen with Arnold Schwarzenwhatsisname must be pretty small if they're there at all.)

Nothing much happened in Dabney last week.

-P.S. Eau de Nym

**Fleming:** from the journal of UNJ #1:

Yet another attempt to fill the void known as the **Mighty Fleming Inside World!!!** Where Neander-bum and others have failed, the mighty junior in the god awesome hat shall succeed. And if nothing else, it'll keep me from finishing my frosh humanities.

Fleming continues to be the best place on campus to live, for what little time I spend in it, but it is my house. The sophomores are trying to teach the frosh what it means to live in Fleming, but seem to end up all wet for the effort. Keep trying guys. The frosh though, seem quite able to keep each other happy. Maybe the ride will come early this term to Fleming house?

The mighty Coke empire lives! For those of you who are watching your calories, but just can't decide on what kind of diet soda to drink, try the new diet random slot downstairs market **Weird diet**. With over seven different diet sodas, you're sure to get a surprise every time, but I promise no **Diet Chocolate Fudge**. Also, coming SOOOON to a coke machine near you (in Fleming house of course), is a secret black box that will change the way you buy coke forever. More details to follow.

Everyone get out for the Alumni Phone Drive. 50 people=\$1000. Free beer and pizza for a few hours on the phone. Call up old Flems, call up new Flems, who's going to call Eggleston? Oh yes, and you get a T-shirt - did anyone see what it said?

**Random related fact:** Farrukh is a spaz.

**Random unrelated fact:** The Prez. doesn't like small diced toes, frozen in liquid nitrogen, on wooden sticks. (Any more specific details unavailable under terms of a certain death threat.)

Fleming sports motto for the day:

"Beaver Fever - Snatch it!"

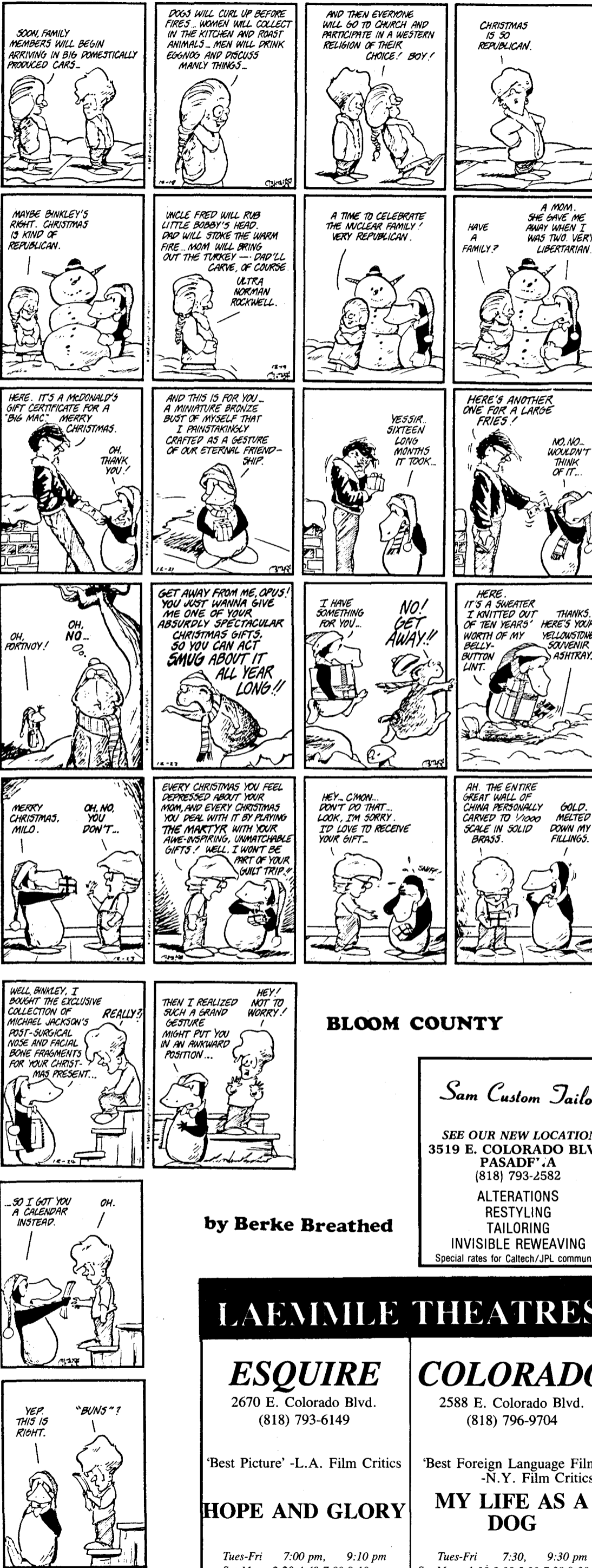
thanks, Humphreys.

A sports flash: Fleming Ultima and Waterpolo studs **DESTROYED** the silly boys, and should crush all other upcoming opposition.

A chanting is heard in the distance, at first just a red blotch is seen on the horizon. But slowly the noise and

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# what goes on

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### Career Discussion Program

The Caltech Gnome Club (an alumni group for service to the Caltech community), assisted by the Caltech Alumni Association, will sponsor a unique on-campus career discussion program.

A typical career discussion includes a few Caltech alumni in a particular field. Each speaks on their career and how they got there. A discussion follows which focuses on the transition from Caltech life to the outside world, the selection of a career field, opportunities and difficulties of the particular field, etc. The students are encouraged to ask questions of any and all sorts.

The program this year includes 4 discussions, which will be held at 7:30 pm on the following Tuesday evenings in Room 13 of the Student Activities Center (under the South Houses).

January 19—Caltech Alumni in the Space Program.

February 16—Communications (TV, film, writing)

April 5—Robotics

May 3—Government, Law and Politics  
Complimentary beer, soft drinks and snacks will be provided.

### Wine, Women and Song!

The Women's Glee Club is beginning rehearsals in preparation for their spring tour to the northern California wine country, March 23-27. Rehearsals are in SAC Rm. 1 on Mondays from 7:30-9:30 pm and Wednesdays from 5:00-6:00 pm. Since we're learning new music this term, we're inviting new singers to join us. For further information call Ann Lewis, 577-7664; Rachel Clark, x3761, or Leslie McCaffree, x6172. All members of the Caltech community are welcome.

### Ski Jackson Hole

If you're *really* into both spring breaks and skiing, take advantage of "the most comprehensive spring break package ever offered for ski buffs." The Busch Spring Rendezvous at Jackson Hole, scheduled for March 14-26. Daily activities, at no extra charge, will include five types of ski races, inflatable raft races, costume contests, dance contests, treasure hunts, fashion shows, dancing and live music. Ski activities will be based out of the "Busch Ski Club," a large, heated tent complete with sound system and located on the mountain. Barbucos and other non-ski activities will be based under a large 5,000 square foot tent called the "Busch Bar and Grill."

Several travel agencies are offering package rates for the Busch Spring Rendezvous, including lift tickets, lodging and inexpensive caravan-type transportation by air or bus. For further information call 1-(800) 262-2900.

### California Ski Guide

Skiers who spend the summer dreaming of groomed slopes and winter treks into the mountains will find plenty of practical and useful information in the new *California Ski Guide*.

Covering the skiing areas of Southern California, Mammoth Lakes, Central Sierra, Lake Tahoe, and Shasta Cascade, just about everything the skier needs to know is featured in this guide. It costs \$4.95 (post-paid) from High Sierra Adventures, 340 S. Webster St., Independence, CA 93526.

### Wanna Choose A President?

The California Democratic Party, as part of its educational outreach program, will be holding workshops on how to become a delegate to the Democratic National Convention. The one closes to here will be on Saturday, Feb. 20 from 2:00-3:30 pm at the Altadena Library Community Meeting Room, 600 E. Mariposa in Altadena (that's a couple of blocks west of Lake).

### MacValley MacUsers MacGroup

The MacValley Users Group announces that its January general meeting will be held Tuesday, January 19, 1988 at 7:30 pm in the cafeteria of Burbank High School at Burbank Blvd. and Third St. in Burbank. The Los Angeles Fire Department Fire Education Unit will deliver a presentation on earthquake preparedness. For further information contact Ruth Stever (818) 848-1277.

### National Health Fed Convention

Dr. Robert Mendelsohn, M.D., will be the main speaker at the National Health Federation Convention at the Pasadena Convention Center on Jan. 15-17.

Marking the 33rd annual Health Convention will be over 200 exhibitors, several food preparation demonstrations and 80 speakers on all areas of natural health. The messages of the various speakers will pertain to alternative therapies and self-help. Included in the exhibitions will be water purifiers, mini-trampolines, foods and vitamin supplements.

The Conference will take place in the Exhibit Hall, the Lower Level Conference Center and the Civic Auditorium of the Pasadena Center. Hours are 8 am to 6 pm on Friday and Saturday, 9 am to 6 pm on Sunday. Admission is \$15 per day or \$20 for the whole weekend.

For information call (818) 793-2122.

### Naval Research

The Research Participation Program at the Naval Training Center (NTSC) is offering postgraduates, graduates, and undergraduates opportunities to conduct hands-on research in advanced simulation and training systems technology. Applicants for the graduate and undergraduate appointments must be currently enrolled in an academic program leading to a baccalaureate or advanced degree in a discipline related to training technology. Selection of participants is based on academic records; recommendations; scientific interests; compatibility of the applicant's background and interest with needs of the research center; and the availability of funds, staff, and facilities. Graduate and undergraduate appointments are for the summer, a semester, or one year, renewable for a second term. Students may participate on a full-time (40 hours/week) or part-time (20 hours/week) basis. For further information please contact the Financial Aid Office, 515 S. Wilson.

### Money For Vermontites

Vermont Student Assistance Corporation is offering a Vermont Grant for the 1988-89 academic year to residents of Vermont. The Grants can be used at colleges throughout the country if the college is approved by the U.S. Department of Education for participation in the Student Aid Programs. The application priority date is March 1, 1988. For further information, please contact the Financial Aid Office, 515 S. Wilson.

### Money From The Blind

The National Federation of the Blind is offering seven different scholarships ranging from \$1,800 to \$10,000. The scholarships are awarded on the basis of academic excellence, service to the community and financial need. The deadline for receipt of the application is March 31, 1988. For further information please contact the Financial Aid Office, 515 S. Wilson (2nd floor).

### Hunter Rouse Fellowship

The University of Iowa College of Engineering is sponsoring the Hunter Rouse Postgraduate Fellowship in Hydraulics and Fluid Mechanics. Recipients must have earned a B.S. or M.S. by the 1988 academic year. Stop by the Career Development Center, 08 Parsons-Gates, for more information.

### Summer Molecular Biology

Robert Wood Johnson Medical School is sponsoring undergraduate summer research in molecular biology and biochemistry from June 13 to August 19, 1988. Application deadline is April 1, 1988. Stipends: \$2,000 to \$2,500. On site housing available.

The goal of the program is to provide undergraduates with the opportunity to perform supervised research in molecular biology and biochemistry. At the end of the summer period each student will write a progress report and will be presented with a certificate of having completed the program.

For an application form please write Dr. Masayori Inouye, Chairman, Dept. of Biochemistry, UMDNJ-Robert Wood Johnson Medical School, 675 Hoes Lane, Piscataway, NJ 08854-5635.

### Northrop Fellowship

The Northrop Corporation Fellowship Program is sponsoring the Fellowships in Electromagnetics for 1988-89. Earn your M.S. in Electrical Engineering from UCLA, work at Northrop full-time during the summer and holidays, and half-time during the academic year. Tuition, books and required fees paid by Northrop. Salary and benefits plus \$15,000 yearly stipend. For more information contact James B. McNelly, Ph.D., Northrop Corporation, Corporate College Relations, 30/136/52, One Northrop Avenue, Hawthorne, CA 90250. Phone: (213) 332-1514, or contact the Career Development Center (Caltech x6361), 08 Parsons-Gates.



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## sports

## Beavers Suffer Defeat to PCC's Deacons

by Al LeHoop

Despite the disappointing 62-45 loss to Pacific Christian College on Monday, the Caltech Basketball team put up a good fight to the end. The contest marked a 15th straight victory for Pacific Christian. They are currently ranked 2nd among all California teams in the NAIA conference.

Dampening Caltech's performance was the extensive Christmas break in which no games were played for over a month. Most of Caltech's opponents took off no more than two or three days from practice and a week from games. As a result, Caltech slipped way behind when they returned from their vacation.

The contest was much closer than the final score indicated, making the loss all the more disappointing. The Beavers initiated the scoring on a basket by Huck Seed, giving them a 4-0 advantage. For the rest of the half, neither team was able to open up a larger lead than four points, until the final minute. At this point, Pacific Christian's full court press forced

a pair of turnovers which PCC converted into baskets, giving them a 30-25 half-time advantage.

PCC scored first in the second half. However, the beavers battled back with a 9-2 run which included a powerful slam-dunk by Bill Swanson, a lob pass from Brad Scott to Seed, and a three-point shot by Scott. With the score tied at 34, PCC then hit two straight baskets. Caltech could not get any closer the rest of the game. During the last eight minutes of the game, PCC's full court press took its toll. The Beavers's defense broke down, resulting in Pacific Christian running away with the game in the final minutes.

Scoring for the Beavers were Seed 19, Swanson 10, Scott 6, Jason Karceski 4, Adam Slovik 4, and Randy Ralph 2. Swanson led the team in rebounds with 11, and Scott had 5 assists followed by Seed and Karceski with 3 apiece.

Caltech opens its SCIAC JV conference tonight at home against Pomona-Pitzer. The next game is Tuesday, January 19, at La Verne. The team needs your support. Come out and have fun cheering on the Caltech Basketball team!



Adam Slovik (14) leaps to overcome opponents. Beavers could not overcome the Deacons, losing 62-45.

## Swimmers Meet UCI

by Flip Turner

Last weekend, members of the Caltech men's swim team participated in their first meet of the season. This three-day UCI Invitational was held at Heritage Park from Friday, January 8 to Sunday, January 10. The Caltech men's team, however, only attended the meet on Saturday and Sunday.

The meet featured teams from California colleges, schools from across the country, as well as some local age group swimmers. Among the teams present were SCIAC rival teams Whittier, Occidental, and Claremont.

USC schedules this meet each year supposedly for the sole purpose of competing against Caltech swimmers! In fact, when USC discovered that Caltech had not yet arrived Saturday morning, they skipped the morning's races and called it a workout.

To conceal the team's strength, Caltech made some last minute identity changes. For the meet, Mark Hause became "Clark," Devin Leonard and Chris Edgington switched places, and Dave Geraghty was accidentally listed as a Claremont swimmer.

The fatigue caused by a week of two workouts per day became evident on Saturday. Many swimmers started out their races strongly but lost the energy for powerful finishes. As a result, a good portion of the Caltech men were disappointed with their times.

Sunday's races produced better performances. For example, Brian Shim swam the first 100 meters of his 200-meter breast stroke faster than his open 100 meter breast stroke the day before!

Quality individual performances were generated by a number of Caltech swimmers. Freshman Dave Geraghty swam

the 200 meter butterfly stroke in 2:15. Freshman Barry Stipe turned over a time of 2:11 for the 200 meter back stroke and 59.2 seconds for the 100 meter back stroke. Junior Brian Hayes swam the 400 meter individual medley in 4:41 and the 200 meter breast stroke in 2:24. The 400 meter freestyle relay team of Stipe, Geraghty, Hayes, and freshman Ben Finley swam a respectable race.

This week, the team resumes its training as it prepares for a meet with Whittier and Pomona-Pitzer this Saturday at Pomona. The first home meet for the entire team, both men and women swimmers, is Saturday, January 23, against Redlands. As always, timers are needed and greatly appreciated for home meets. All are welcome to come out and cheer on the team!

## Icemen in Cold Streak

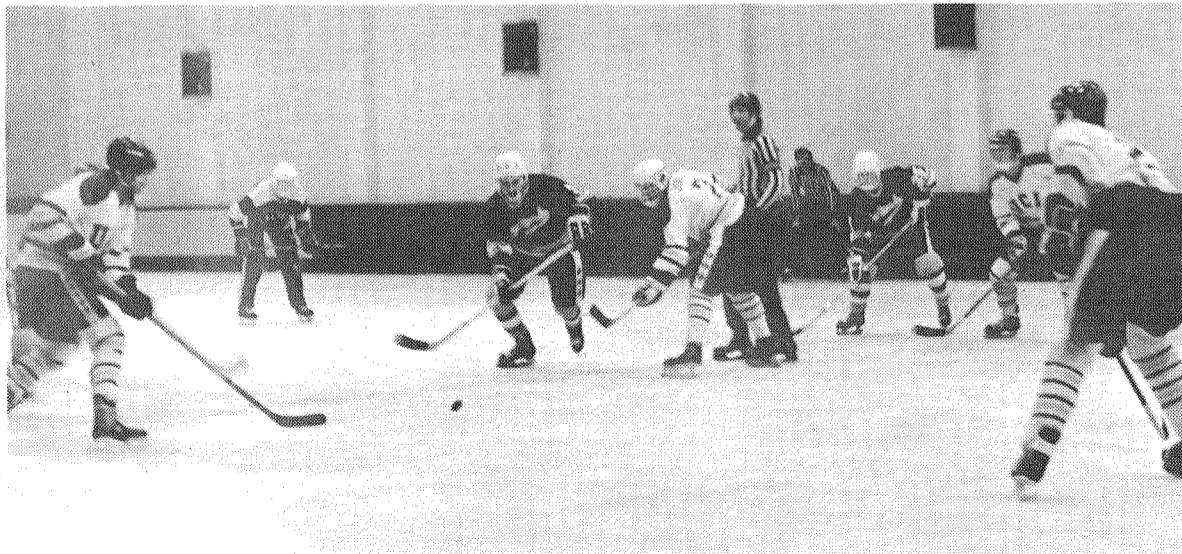
by Ice Man

The Caltech Ice Hockey team took a strange twist on Wednesday night. In the game, the Beavers took to the ice with the ease of figure skaters. However, the three stooges made a guest appearance

disguised as referees.

The action began in the opening as Martine Brouillette pulled the face-off to Dwight Berg who fed Dave Braun ice on the left side. Braun neatly fed Paul Svitek for a goal twelve seconds into the game.

After that point, Larry, Curly, and Moe took control of the game. The Beavers were awarded more "style points" for their smooth skating than for their overall performance. When the final gun sounded, the Irvine/Golden West



Unidentified Beaver skates toward puck as surprised opponents are left in his wake.



Yayoi Izumi surges forward with powerful strokes as she competes in the butterfly competition.

team came out on top by a score of 6 to 3.

Be sure to visit lovely Pickwick Ice Arena in Burbank on Friday, January 22, at midnight as the pucksters will pirouette around USC in another display of figure skating prowess.

## SPERM DONORS NEEDED

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## WEEKLY SPORTS CALENDAR

Day	Date	Time	Sport	Opponent	Location
Fri.	1-15	7:30 pm	Basketball	Pomona-Pitzer JV	Caltech
Sat.	1-16	10:00 am	Swimming	Whittier	Pomona-Pitzer
Tue.	1-19	7:30 pm	Basketball	La Verne JV	La Verne
Tue.	1-19	12:15 am	Hockey	USC	USC
Fri.	1-22	7:30 pm	Basketball	Claremont-Mudd JV	Caltech
Fri.	1-23	10:00 am	Swimming	Redlands	Caltech



## CALTECH public events

## THE CAMBRIDGE BUSKERS

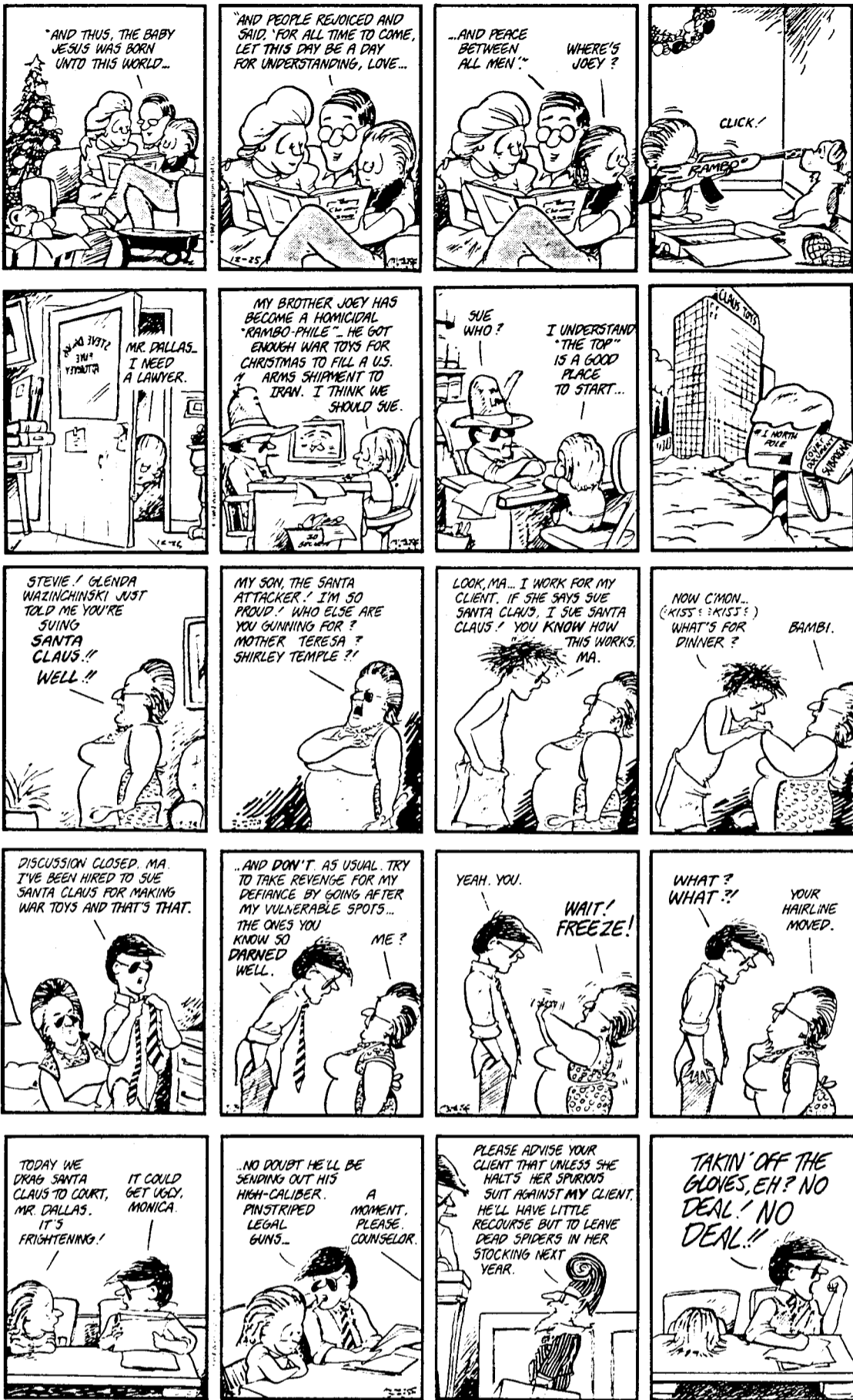
Michael Copley and Dag Ingram use an accordian and 20 other wind instruments to spoof music from Bach to Scott Joplin.

Friday, January 29, 1988 / 8 pm Beckman Auditorium

Tickets: \$17.50-15.00-12.50  
CIT Students: \$8.75-7.50-6.25;  
Rush Tickets (Day of Show): \$6.00

Tickets available at the Caltech Ticket Office, located just north of the Beckman Auditorium parking lot.

from page 4



# More Inside World

from page 4

figure grow in magnitude as the Fleming machine rolls forward, ever forward. The chant becomes clear and clearer:

**Page Sux!**  
**Page Sux!**  
**Page Sux!**

and the might of Fleming house move onward and upward.

**Frosh spot:** Let's hear what the frosh think so far...

**Twitly frosh #1:** I rip from him a paper he's holding to get his attention—My computer printout!? Oh no. Ah, what do I think of Caltech? This place is dull, the parties are dull and I'm an unhappy frosh.

**Confused frosh:** I like the southern Comfort, but watch out for the spaghetti down on the ledge. Someone should get rid of all the blond frosh women that keep bothering me.

**Stupid frosh #2:** Who are grandma and grandpa?

**Unhappy frosh:** The sophomore class is LAME!

**Twitly frosh #2:** Did you know I sent this guy this file that erased his directory! And then it listed on his screen!! And then it LOGGED him OUT!!! It was GREAT!!!!

**Stupid Frosh #3:** B shoots first, but in the reference frame of A, B dies first. Hmmm. Does anyone know the combination to my door? The maid locked me out.

These frosh need help, and speaking of blond frosh women: Janine's back—Again—but for how long?

For those of us that really matter: 11536 hours until graduation!

—Woolstar

**Lloyd:** On short notice, I came up with this tv show concept:

"Leave it to Giezen"

Starring Nancy Giezen as Mrs. Giezen, Craig "Digby" Sosin as Wally Giezen, John "Pope" Wiltse as Eddie Hascal, and Jurgen Giezen as the Gieze.

The Gieze: "Mom, I'm home!"

Mrs. Giezen: "That's nice dear. Did you have a good day?"

The Gieze: "Yeah, I got to play in the wind tunnel. It was real neat...my hair was blowing all over the place and everything."

Wally (entering): "Hey Gieze, did you feed your turtle yet today?"

The Gieze: "Gosh no, Wally. Hey, I made up this game on the way home. You have to stack these five chairs on top of one other chair without using any extra supports. Let's try it!"

Wally: "Uh, that's o.k. Gieze."

Eddie (entering): "Hey Gieze, I heard you left your bike at the store yesterday, and walked all the home without realizing it. Hah, hah, hah. What a dolt!"

Wally: "Gee Eddy, you're being a little hard on the Gieze."

Eddie: "By the way, that's a lovely dress you're wearing, Mrs. Giezen."

Mrs. Giezen: "Why thank you Eddy." (She leaves.)

The Gieze: "Gentlemen, what's happenin'?"

Wally: "You're in big trouble, that's what's happening. I walked into your room and noticed that terrible paint smell. You shouldn't be building that stuff in there. Mom's gonna be awfully sore."

The Gieze: "Aw heck, I didn't think you could notice it. Oh no, Maybe mom won't let me go to the U5 concert—I love that song, what's it called?—something like I still haven't looked for what I found—you know, it goes like 'monday, bloody monday.' Oh well, let's have some fun, maybe sing some songs or throw the ball around or have some cider—you know, some sort of social event, maybe a dinner-type thing, like cheese carving...by the way, do you have any quarters..."

Probably not to be continued. The Frosh Ultimate Force is looking good. Glad to have the spinmobile back,

—The King of Spin

**Ricketts:** What I did last weekend (another in our continuing series of stupid stories). I went up to Big Bear. And I went skiing. And I played in the snow. Skiing was fun until I hit the tree. The hospital was fun too. While I was there I played with some old man's EKG machine. Boy, were the nurses mad. I visited the nursery and looked at all the babies. They were so cute; except for one that looked like a rat. They have a special room in the basement that they keep really cold. I snuck in at night and saw people sleeping, but I couldn't wake them up, even when I hit them as hard as I could. When I got out everyone was mad that I didn't have a cast for them to sign, so they wrote on my forehead.

The Big Maroon Machine rolls on. The first interhouse ultimate frisbee game was an inspiring spectacle as the mighty Scurves showed the lowly boys in yellow what being men (and women) is really all about. The Lloyds could do nothing to avoid the 11-4 rout. When last seen, they were walking back to their house to console themselves.

The boys in red will also have to contend with the Maroon onslaught. This Sunday marks the first Ricketts Discobolus challenge of the term. Volleyball is the game, and all the players are in training. Eat right, sleep well, and no sex (to the dismay of all).

Other Naughty Bits: The first Ricketts Hovse raffle continues. Sales are brisk, with many of the tickets being bought up by a high ranking member of the Caltech administration. Su-Lin lost yet another purity point at the hands of one of our own Inside World writers. A free raffle ticket to the first person to guess which point and with whom. Doggy fondly remembered his sophomore year last night when he recalled sharing his time with a 4'1/2" ornamental woman. 4'1/2"? That's how he remembers her, but I wonder if it's her bottom or top 1'1" that he forgot.

—The Lil' Cook-Man and the Great Neck Strangler

## Passport Photos

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