



Above: Two workers carry on the work at the new graduate student housing complex on Catalina and San Pasquel. Below: The Buildings begin to take shape. Sign-ups for the complex, which will house hundreds of single graduate students starting next September, will go up in the Housing Office on April 15th.

Photo by Behzad Sadeghi



Board Elects New Trustee

Caltech news bureau

Donald L. Bren, chairman of the board of directors of the Irvine Company, and a major developer of California real estate for the past 25 years, has joined the Board of Trustees of the California Institute of Technology.

Mr. Bren is known as a leader and innovator within the development industry, and has achieved a reputation as a national expert in the fields of planning, design, construction, marketing, and finance.

He began his business career as a builder and community developer in 1956, when he formed the Bren Company in Newport Beach, and presided over its evolution into one of California's primary developers of planned, quality residential communities. In 1963, as founder and president of Mission Viejo Company, he established the community of Mission Viejo in Orange Coun-

ty, which has since become a national model for residential areas. In 1967, he founded Bren Investment Properties, which designs and builds for ownership quality commercial office buildings and industrial parks.

In 1977, Mr. Bren joined a group of investors who purchased the Irvine Company. In April 1983, he purchased sufficient outstanding shares to give him majority ownership of the company. He has served as a member of the company's executive committee since 1977, became co-chairman of the board in September 1982, and chairman in April 1983.

Caltech's new trustee was born in Los Angeles, and raised in Los Angeles and Newport Beach. He earned a degree in business administration and economics from the University of Washington. He currently makes his home in Los Angeles.

Richard Turco Speaks On Nuclear Winter

By Hossein Mohammad

Richard Turco, the noted Atmospheric Research scientist who last year along with Carl Sagan and several other researchers published the famous TTAPS study on the effects of a nuclear war, will come to Caltech next Wednesday, April 11, to speak on the Nuclear Winter Phenomenon.

The TTAPS study, which takes its name from co-authors R.P. Turco, O.B. Toon, T.P. Ackerman, J.B. Pollack, and C. Sagan, used numerous scientific models to study the atmospheric consequences of a nuclear exchange. The term *Nuclear Winter* was then coined to describe the climatic and biological results of such an exchange. Since its presentation in the *Conference on the World After Nuclear War* last October, and its subsequent publication in *Science* magazine in December, the TTAPS report has become one of the most thoroughly analyzed and heavily debated papers in recent years.

Turco is to speak at 7:30 p.m., next Wednesday evening, April 11, in Baxter Lecture Hall. The scientist's visit has been arranged by the Caltech World Affairs Forum and is co-sponsored by the Caltech Y.

Earlier in the day, next Wednesday, Turco will give a technical seminar on the Nuclear Winter phenomenon at 4:00 p.m. in room 142, Keck. His evening talk in Baxter will feature a video on the subject

by Carl Sagan. Following the presentation, Turco will take part in an informal reception in Winnett Student Center. Admission to both the talk and reception will be free.

By examining numerous models, scenarios, and simulations of nuclear exchanges, and drawing on previous work on the atmospheric and climatic effects of volcanic eruptions, the TTAPS team drew some new conclusions about the aftermath of a nuclear war. Two particular factors taken into consideration by the team are the dust and the smoke injected into the atmosphere by nuclear explosions and the ensuing city and forest fires.

The TTAPS research concludes that, depending on the size of the nuclear exchange, such smoke and dust could drastically reduce light levels on the planet and lower land temperatures for weeks or months. This effect, referred to as the Nuclear Winter, could lead to such disruptions in the atmosphere as to put both its recovery and long-term human survival itself in serious question. However, the most disturbing feature of the study is that the threshold for the magnitude of the nuclear war necessary to trigger a Nuclear Winter is lower than anything previously expected.

According to the report, a 100 megaton nuclear exchange spread over several hundred population centers could affect the Nuclear Winter. A destroying power of 100 megatons not

only forms a small fraction of the U.S. or Soviet nuclear arsenals, but also is well within the range of individual British, French, or Chinese inventories.

According to Benjamin Frisch, an organizer from the World Affairs Forum, the informal reception following the talk should give the students a chance to discuss both the scientific and socio/political aspects of the subject with Mr. Turco. The WAF is asking all interested groups to participate in the reception by setting up tables for discussion and distribution of literature.

Turco is the second major speaker to be brought to Caltech by the Caltech World Affairs Forum. The WAF was formed this year with the aim of promoting debate and discussion on issues of national and international importance on campus. Primarily an undergraduate/graduate student group, the Forum now boasts a membership of some 100 people, including some Pasadena residents, Caltech faculty members, and Institute staff. Among its many events, the WAF has sponsored regular bi-weekly discussion sessions on diverse topics. Last November, the group brought internationally known American journalist Robert Sheer to campus for a speech that attracted an audience of 300 people.

Richard Turco's April 11th talk will be entitled *The Nuclear Winter Phenomenon: New Pathways to Extinction?*

ASCIT Notes

Social Events

Yes! It's time to announce the first two campus-wide social events this term.

First up, on Saturday, April 18, the Caltech campus will be truly converted into the party mecca we've all been waiting for. In the afternoon, there will be an intercampus barbeque/social for freshman on the Olive Walk. This pre-party get-together is being organized by Page's Brian Ruess (read his announcement today). In the evening, we'll be joined by the upperclassmen of Scripps, Oxy, Pomona, and Pitzer colleges for an outrageous dance-party blowout featuring the well-known LA bands *The Untouchables* and *The Question*. The party will be open to all ASCIT members.

The ASCIT Formal at the Atheneum, Caltech's token annual gala event, will take place on Friday, May 11. Signups will appear in the houses next week. If you want a vegetarian meal, please send a note to me at 1-53 TODAY. It seems likely this year that more Techers will want to go to the Formal than can be accommodated, so we'll go on a first signed-up basis. If you've got ideas for menu, music, or mood, ring me (Dan Schwartz) up; meanwhile, watch future *Tech* issues for info on tux and flower discounts, wine selection, and table reservations. The Formal is exclusively for ASCIT members and their guests.

If your house, or group of your friends would like to operate the bar at the 7-house party in April, please send me a bid describing your whole plan for operating it, including profit or salary required and drinks to be offered, by next Saturday, April 14. The ESC will decide on a bar based on perceived quality, efficiency and cast.

Questions or comments? Call me at X6274.

Elections

There will be an election this Monday (i.e., April 9) on the proposed change in the ASCIT By-laws to increase ASCIT dues from \$15 to \$20 per term. Article XIII Section 1 would be amended to read:

DUES: The corporation dues shall be payable on registration day of each term at the rate given in the schedule below: Fall - \$20.00; Winter - \$20.00; Spring - \$10.00; Total - \$60.00.

The Board of Directors has not increased the dues in more than 5 years, and consequently ASCIT's ability to support many clubs and social activities has been seriously curtailed by inflation. It takes a lot more money to hire a decent band and give significant support to clubs than it did last time the dues were increased. You may ask why the dues weren't raised earlier ... The present BOD doesn't know.

Interviews and appointments will be made for ASCIT appointed offices by Tuesday, April 11. Nominations for IHC appointed offices close Monday, April 9.

Cure for Social Ills

Most undergrads are dissatisfied with the social life at Caltech. In fact, a lot of students are even "anti-Caltech." I attribute the lack of social life at Caltech to the following (which, amazingly, have little to do with courseload):

1. The house system.
2. Rotation.
3. The lack of unity at Caltech.

The lack of unity is directly related to the house system. Generally the attitude among students seems to be "Rah Page (or Fleming, Ruddock, etc.); Caltech sucks." Interhouse activities and rivalries often take precedence over school activities. As a football player, it disappoints me a great deal to see more people at a Page-Fleming game than at a Caltech football game, especially when we have a winning season. In addition, participation in Caltech athletic events tends to be discouraged in favor of house athletic events. This contributes to the lack of unity or spirit at Caltech. It is true that most of our teams are the worst in the SCIAC; some school support might change that.

Rotation also contributes to the lack of social life. Even with the Frosh Catalina trip, few frosh get to know either Caltech, or fellow members of their class. I am a sophomore, and I still don't know most of the members of my class. The type of people that I get along with, basically people who like to party, I am just beginning to meet. I find them evenly distributed throughout the houses. Rotation, as has been

brought up many times, is inadequate for the needs of freshmen.

These problems have been discussed before. I propose a solution: many people have complained about Caltech, but so far no initiative has been taken. I therefore intend to start a group whose sole purpose is to improve the social ills at Caltech. I intend to do this by way of the following:

1. Provide social events open to the members of all houses.
2. Emphasize school spirit over house spirit, in an effort to alleviate social problems, create unity, and support our athletes.
3. Lobby for a new student center—Winnett just doesn't cut it—Who wants to have a party there?

I think that the social life at Caltech can be improved. There are, as I mentioned, considerable doubts in my mind as to the value of the present house system—no other school I know of has the same system we do, and every other school has a better social life than at Caltech. However, the house system will not be changed, at least not for a while. I therefore propose this group as a complement to the houses, not as a rival.

Our first social event was last weekend, a trip to see the L.A. Express play the New Jersey Generals. Future events might include Dodger nights, parties and beach trips. If you are at all interested in joining this group and improving social life at Caltech, please contact Marc at 356-3949. Thank you.

The Body Shop

Carbohydrates Can Be Health

by Janice Ramaeker
Health Center Staff

Many of us shy away from carbohydrates. We are convinced that they are fattening. Ounce for ounce, fats have twice the calories of carbohydrates. We have been confused and misled for years that carbohydrates are long on calories and short on nutrition. By avoiding carbohydrates, our diets are now rich in fats, causing many health problems.

A greater emphasis on the complex carbohydrates (beans, peas, nuts, seeds, vegetables, fruits, whole grain breads, cereals and grain products) would produce a healthier America. Complex carbohydrates provide us with valuable nutrients, protein, B-vitamin, trace minerals and fiber. In increasing our consumption of complex carbohydrates our intake of dietary fiber would also be increased, reducing the symptoms of chronic constipation, diverticulitis and decreasing chances of cancer of the colon and rectum.

A final benefit of complex carbohydrates involves weight

control. Carbohydrates can help cut back calorie-dense fats and sweets. Complex carbohydrates fulfill both our physical need and our psychological need for food.

Eating more carbohydrates and less fat-ridden animal protein can mean a substantial savings, both health-wise and in the pocketbook. It costs us 2 to 6 times more to get 1/3 of our daily requirement of protein (20 grams) from animal protein than vegetable protein. Plus, vegetable protein can be more versatile when planning meals—vegetable protein goes further.

Here are some helpful hints to increase carbohydrates in your diet:

Breads

You get the most nutrients for your money if you buy whole grain bread made from stone ground flour. Second best is 100% whole wheat or whole grain.

Cereals

Your best cold cereals are shredded wheat and Cheerios. Hot oatmeal (not instant) leads the pack in food value of all cereals. To increase nutrient

value with hot cereals, use skim milk as part or all of the liquid. Puffed cereals give you more air than nutrients, but are low in fat and salt. Watch out for granolas, which are high in sugars and fats.

Vegetables

Potatoes are relatively low in calories when baked or boiled; if fried 70% of the calories are fat. Soybeans, kidney, pinto and navy beans, lentils and blackeyed peas contain lots of high quality protein. Frozen vegetables are almost as nourishing as fresh. All vegetables are a good source of fiber and pectin, which helps to lower the levels of cholesterol.

Fruits

Good source of fiber and pectin. Can satisfy a sweet craving.

Peanuts, nuts and seeds are also good sources of protein, but these foods contain considerable amounts of fats and are high in calories.

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DAYS & EVENINGS

159 So. Allen Apt. 106 Pasadena

Beckman Hosts John Houseman

Office of Public Events

John Houseman relates incidents from his career in film in a presentation entitled John Houseman's "World of Motion Pictures." Designed specifically for Caltech, this lecture will be held Saturday, April 7 at 8 p.m. in Beckman Auditorium.

Possibly best known to audiences for his role as Professor Kingsfield in the feature film "The Paper Chase,"

Houseman will give insights from his own career into the history of American motion pictures.

Among the films he will discuss are "Citizen Kane" (which he co-wrote), "The Blue Dahlia," "Julius Caesar" and "Lust for Life." He will also speak on some of his television endeavors such as "Darrow" and "Gideon's Trumpet."



John Houseman

Houseman, a native of Rumania, was educated in France and England, and began writing at an early age. Originally intending to be a grain broker, he arrived in the United States in 1925. By the 1930s, however, he was devoting his energy to writing and the theater. This was the beginning of his association with the Paramount, Universal, and MGM studios.

CIT student tickets are priced at \$7.00-6.50-6.00; \$4 rush tickets will go on sale beginning one hour prior to performance time (subject to availability).

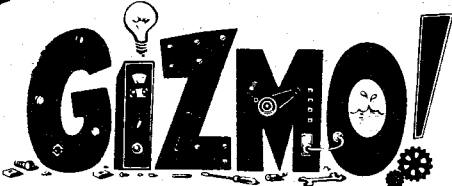
Caltech faculty and staff tickets are priced at \$13.00-12.00-11.00. Tickets are available at the Caltech Ticket Office, located just north of the Beckman Auditorium parking lot. Call X4652.

THE ASCIT MOVIE
TONIGHT at 7:30 and 10:00



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50¢ ASCIT members \$1 all others

Cinematech



with the shorts:
The Wizard of Speed and
Time and Animato

Saturday Evening in Baxter Lecture Hall
Students, \$1 All Others, \$2

THE CALIFORNIA TECH

Volume 85 Number 21
Friday, March 9, 1984

Published weekly except during examination and vacation periods by the Associated Students of the California Institute of Technology, Inc. The opinions expressed herein are strictly those of the authors and do not necessarily reflect those of the editors.

Letters and announcements are welcome. Included with all contributions should be the author's name and phone number and the intended date of publication. The editors reserve the right to abridge letters, so please keep them concise.

Turn in copy to the Tech office mailbox, room 107 Winnett. The deadline for copy is Wednesday evening at 8:00 pm. Late copy may not be printed unless previous arrangements have been made with the editors.

Editors in Chief Ken Hahn
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Ken Whang

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The offices of the California Tech are located in
Winnett Center on the Caltech campus.

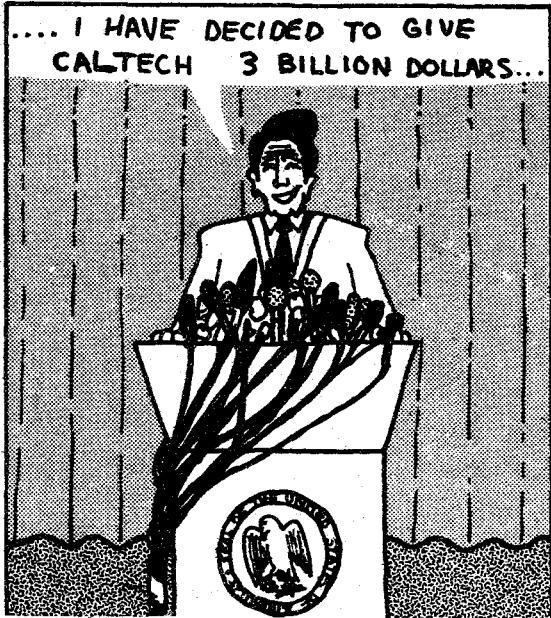
Editor: Room 115 356-6153
Business Manager: Room 107 356-6154
Production: Room 115 356-6153

The California Tech, 107-51
Caltech, Pasadena, CA 91125

Printed by News-Type Service, Glendale,
California.

Subscriptions should be directed to the attention
of the circulation manager.
\$6.00 per year (three terms)
\$100.00 per life ISSN 0008-1582

letters



Washington rumor has it that Reagan has been dead for months and is actually a radio-controlled dummy. The FBI is desperately trying to prevent Caltech pranksters from taking over.

— Courtesy of *West Side Story*, student paper of West High School, Iowa.

Pranksters Tell It As It Is

To the Editors:

We submitted the following letter to the *LA Times*. Please print it in the *Tech* also.

Dear Editor(*of the LA Times*):

Throughout the last few months, we have been dismayed at the number of factual errors in newspaper stories related to this year's Rose Bowl stunt. Therefore, we, the Caltech students involved, would like to clear up some points which have been misrepresented.

We took control of the Rose Bowl scoreboard system before Christmas without the knowledge of any Caltech staff or faculty. Our only modification to the equipment was a splice in the cable to the scoreboard, where we attached our device. During the game, we placed messages such as "Go Caltech!" on the scoreboard. The frustrated

stadium officials responded by turning off the power to the scoreboard before the game was over. There was no malfunction of either the stadium computer or our device.

Early in January, we contacted the Rose Bowl officials and offered to undo our installation and explain how we gained control. This offer was ignored. The officials involved went on to spend \$1200 in shipping costs to check out their computer - which, as we would have told them, was never touched by our project. There was no damage and hence no repairs were necessary to either the computer or the scoreboard. The figure of \$4000 printed earlier was an exaggerated estimate.

Later, against the recommendation of the Pasadena City Directors, the City Prosecutor charged us with

four misdemeanors. When articles questioning the City's sense of humor appeared in local papers, he tried to defend his actions in a public letter. His office, previously independent, has since been placed under the authority of the City Attorney.

In cooperation with the City, we agreed to share the amount needlessly spent by the Rose Bowl on their computer. This amount was not paid to the court, and was not a fine. The City dropped every charge except "loitering in a public place after midnight," to which we pleaded no contest.

We hope that with more serious matters, journalists will have a greater concern for accuracy and will avoid sensationalism.

Ted Williams
1-54 Caltech
Dan Kegel
1-60 Caltech

A Dollar a Minute

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31	<input type="checkbox"/> 5200	Missing License Plate - Front or Rear	Show Proof
32	<input checked="" type="checkbox"/> 21113A	Parked on Public Grounds	\$ 15.00
33	<input type="checkbox"/> 22500B	Parked on a Crosswalk	\$ 20.00
34	<input type="checkbox"/> 22500E	Parked in Front of Driveway	\$ 20.00
35	<input type="checkbox"/> 22500F	Parked on a Sidewalk	\$ 20.00
36	<input type="checkbox"/> 22500H	Double Parking	\$ 20.00
37	<input type="checkbox"/> 22502A	Failure to Park Within 18" of Right Curb	\$ 10.00
38	<input type="checkbox"/> 22514	Parked Next to Fire Hydrant - No Operator	\$ 20.00
39	<input type="checkbox"/> 22515	Unattended Vehicle - Motor Running	\$ 10.00
	<input type="checkbox"/>		

NOTE: YOU MUST RESPOND TO THIS CITATION WITHIN 15 DAYS OF ISSUE BY (1) PAYING THE BAIL AMOUNT OR (2) COMING TO THE PASADENA POLICE DEPT. TO REQUEST A COURT APPEARANCE.
RETURN CITATION WITH REMITTANCE WHEN PAYING BY MAIL

To the Editors:

Thank you for this warm and friendly welcome to Caltech. Such a degree of personal attention is really unnecessary - my visit was merely to return my son to campus for the spring term.

Having left my vehicle in a parking lot area where two other cars were already located, I felt secure in lingering on your campus for 15 minutes. Let me hasten to apologize for this presumption. Obviously it was in error.

Is there no provision within your current system of fees and rules to permit parental park-

ing? Perhaps I should be grateful that you accept tuition payment by mail, thereby rescuing me from further abuse?

Similar copies of this memo are being sent to the following individuals on your campus:

1. Mr. Marvin Goldberger
President
2. Mr. Harold Gender
Director of Security
3. Mr. James J. Morgan
Vice President for Student Affairs
4. Mr. David B. Wales
Dean of Students

At one dollar a minute, I cannot afford to visit your campus.

— Ada Nordby



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Courtesy Ted Williams

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Faculty, Grad Students, Attend!

Mondays and Tuesdays are Beer Days. Half price on beer.

B. C.: On Lake Avenue
1/2 Block North of California

The Inside World

Blacker: WANTED: An 8-ft. hairy red slimy hellish rancid slobbering steaming lumpy deranged bloated little girl with a head shaped like an upside-down punch bowl, ears like giant bat wings, no neck, knuckles that drag a foot behind the heels, feet like scuba fins but wider and two inches thick, two elbows on each arm, no knees (but that doesn't matter since the hips are where the knees would be if there were any), two tentacles coming out of the stomach, and one huge eye that covers the entire face. Eats doors.

—Bloom County

Dabney: No entry.

Fleming: This past weekend, with efforts by the Social Team, Ross, Davo (the guy just can't quit his old job), and Jonathon, the Penthouse Party of the Century for Third Term 1 lived up to its name.

Good bye and good luck to Chaz and Gene (the waiters will especially miss the spaz for obvious reasons). To John Krehbiel: don't forget the postcard dammit.

—Al Fansome

Page: No entry.

Lloyd: Well, we've hit the home stretch. Don't give up, and remember, seniors are wimps.

Last week, we went to the Laserium. The show was *Dark Side of the Moon* and really good. Go if you have a chance.

This weekend: Farrell's/Rocky Horror, and Disneyland.

Don't forget to pay Charles for Disneyland and Laserium.

—Staff

Ricketts: No entry.

Ruddock: No entry.

The Outside World

A comprehensive ban on the "production, possession and use" of chemical weapons was proposed by the United States this Wednesday. The U.S. will submit its proposal to the United Nations Disarmament Committee in several weeks. The proposed ban would only be applicable to mustard gas, nerve gas and the like, and would not cover germ and biological weapons. Germ and biological weapons are already forbidden. Recent reports of Soviet use of gas in Afghanistan and Iraqi use of nerve gas in its war against Iran have created concern here in the United States and in many countries throughout the world. Both the Soviet Union and the United States maintain stockpiles of chemical weapons.

President Reagan criticized the 1973 War Powers Resolution in a televised press conference. He claimed that the War Powers Resolution, which prohibits the president from sending troops into combat overseas for more than 90 days without Congressional approval, was contrary to the intentions of the U.S. Constitution and that foreign policy must be conducted by the president without such interference from the Congress. He also criticized the Congress for not approving the school prayer amendment.

Democratic Presidential Candidates Walter Mondale and Gary Hart will continue their fight for their party's nomination in next Tuesday's primary in Pennsylvania. Mondale was the clear victor in the New York primary earlier this week. Jackson also did very well, almost edging out Hart for second place by winning almost all of the large black vote. Although Hart's nationwide popularity continues, states such as New York and Pennsylvania are tailor-made for Mondale, with large groups of voters such as the old, the poor, union members, and ethnic minorities. Hart will base his hopes on winning California and other Western states and by convincing other delegates that he has the best chance of beating Reagan. For the first time, this year's delegates to the Democratic Convention will not be required to vote for who they pledged for, and there will be many non-pledged delegates.

The Congressional Budget Office's Report says that the tax cuts put into effect during the Reagan Administration have increased the income of the poor but hurt the poor. Last year, families with income of less than \$10,000 lost \$270 more because of spending cuts than they gained from tax cuts, while families with income of more than \$80,000 gained \$7,070. This report has irritated the Reagan Administration, and the Democrats will no doubt gleefully use this report as a weapon against Reagan. The Congressional Budget Office reported further that the disparity of gain and loss between the rich and the poor because of Reagan's tax cuts will increase next year, to a loss of \$440 for the under \$10,000 bracket and gain of \$8,930 for those above the \$80,000 tax bracket. President Reagan said of this report in his press conference, "I don't think it's true."

Governor Deukmejian says the press was used to smear his Administration by his opponents. In a meeting with reporters, George Deukmejian denied the charges that many of his appointees are racially biased and claimed that the press has been used by character assassins to smear his Administration.

Techers As Teachers

Caltech Y

Four Caltech graduates presently employed in education will present a panel discussion entitled "Techers as Teachers" next Tuesday night, April 10, in Baxter Lecture Hall.

Co-sponsored by the Career Development Center and the Caltech Y, the program will involve Sandra Loh, Andrew Duncan, Jackie Fernandez, and Jim McCloud.

Manya Jiannino, CDC's career planning counselor, will moderate the discussion.

Speaking about their personal experiences (Loh is teaching English composition at USC, Duncan physics at Muir High School, Fernandez math at Westlake School for Girls, and McCloud math at Pasadena High), members of the panel hope to help current Caltech students who are con-

sidering the possibility of education careers.

There are, they agree, positive and negative things to be said about teaching, no matter which side you are on. There are also the matters of credentials and the like that are germane to one's decision.

The program begins at 7:30. A reception with refreshments will follow the formal discussion.

Caltech Y Elects New Officers

by Huston Horn

Leslie Lippard, coordinator of the Caltech Y's Friday Noon Concerts since last spring, was elected president of the Y on Monday by the student excomm.

She succeeds Kelley Scott who has led the excomm since the third term of 1983. At the same election, Kevin Gunning became vice-president, Melissa Farrell was secretary, and Kent Noble was publicity coordinator.

Just before spring break, eight new members were elected to the excomm. In addition to Gunning and Swanson, they are: Clea Bures, Kurt Anderson, Alaric Clinton, Matthias Blume, Warren Goda, and Adam Lewenberg. Caltech community of students, faculty, and staff.

Members of the Y Excomm are members as well of the board of directors of the Caltech Y. The Y is an independent corporation with the specific objective of serving impartially the needs of the



THE SMART BIRDS
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SPRINGS**

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The Caltech Y Fly-by

Friday... April 6

Pick up Disneyland and/or Pasadena Symphony tickets at the Y office before 4 p.m.

Monday... April 9

Sailing Saturday April 14—sign up in the Y office before Tuesday 5 p.m.

Tuesday... April 10

"Techers as Teachers"—Four Caltech graduates discuss their careers in teaching. Winnett Lounge, 7:30 p.m. Cosponsored by the Career Development Center.

Wednesday... April 11

"The Nuclear Winter Phenomenon," Dr. Richard Turco. Baxter Lecture Hall, 7:30 p.m. Cosponsored by the World Affairs Forum.

Friday... April 13

Nuclear Free Pacific Movement—Gifford Johnson and Darlene Keju of the south Pacific present their views, Winnett Lounge, 2 p.m. Cosponsored by the World Affairs Forum.

For more information contact the Caltech Y office at 356-6163. Do not forget that the Y has used texts and paperbacks. Come on up and check us out. Just look for the green and white Y flag.

The Men and Women of
Fleming House
proudly welcome their
newest social member:



sports

Interhouse Basketball Next

by Ath Man at Large
 What promises to be one of the hardest-fought Interhouse basketball seasons in years starts today. Four houses stand out as strong contenders for the championship, Blacker, Page, Ruddock, and Fleming. Blacker sports a tall, experienced front line and one of the best guards from last season, Se Jung Shin. Page has an even bigger forward line, but they lack experience. Their guards, on the other hand, Bob Golden and Tom Heer, have a combined seven years of Interhouse basketball behind them. Ruddock will start four members of this year's Caltech Varsity Team. The Rudds, however, have a history of inconsistency and no true stan-

dout player to lead them. Fleming, which has lost four starters from last year, lacks depth and outside shooting. Ed Zanelli and Stewart Peebles will attempt to raise the Flems above these deficiencies. Lloyd's performance will depend a great deal on the availability of Brett Bush, currently injured, and Ed Casey, who plays baseball. When all their starters are available, the Lloydies could upset any of the big four. Dabney will be led by Jeff Lester and Scott Gordon, and they should be able to beat Ricketts, only three of whose players are known to this author. No doubt about it — it should be fun, so come out and support your house.

Weekly Sports Calendar

Sat. 4-7	11:00 am	Track	Chapman & Colorado	CMS
Sat. 4-7	12 noon	Baseball (2)	Pomona-Pitzer	Caltech
Sat. 4-7	1:30 pm	Women's Tennis	Pomona-Pitzer	Caltech
Sat. 4-7	2:00 pm	Men's Tennis	Occidental	Occidental
Sun. 4-8	1:00 pm	Women's Soccer	Bonkers	La Salle HS
Mon. 4-9	1:00 pm	Golf	Claremont-Mudd	CIT—Annandale
Tue. 4-10	3:00 pm	Baseball	Pomona-Pitzer	Pom-Pitz
Tue. 4-10	3:00 pm	Men's Tennis	Redlands	Caltech
Wed. 4-11	3:00 pm	Women's Tennis	Occidental	Occidental
Fri. 4-13	1:00 pm	Golf	Pomona-Pitzer	Marshall Canyon
Sat. 4-14	All Day	Track	Riverside Invitational	U.C. Riverside
Sat. 4-14	11:00 am	Women's Tennis	Cal Lutheran	Caltech
Sat. 4-14	12 noon	Baseball (2)	Occidental	Caltech
Sat. 4-14	2:00 pm	Men's Tennis	La Verne	La Verne

Beavers Set Record

by Doug Oute

The Beavers returned from spring break with new life in their bats and began their assault on the record books last week by winning three in a row. This year's Beavers have now become the 'winningest' Caltech baseball team in the last 30 years, with 13 more games left to play in the season.

In Saturday's doubleheader, Christ College became the first victim of the Beaver winning streak. Things started well for Caltech, as Kurt Schwartz tripled in the top of the second with a man on, to score a run. Another single drove in a second run, and after two innings, the score was 2-0 in favor of the Beavers. It stayed that way until the bottom of the fourth inning, when Christ scored two. The Beavers then answered with a run in the top of the fifth to break the tie. That was all that the Beavers needed, since Christ failed to score the rest of the game. Caltech added two more insurance runs in the seventh inning; Jim Hamrick homered with no one on, and after a triple by Pat Harrison, Phil Scott drove in his second run of the day with a sacrifice fly. The Beavers claimed victory 5-2. The Beavers benefited from a solid pitching performance from Hamrick, who struck out 14 in 7 innings.

The second game lacked some of the excitement of the first game, but none of the satisfaction. The Beavers started the game by mauling Christ's pitcher and collecting four runs on four hits in the top of the first. Christ was blanked in the bottom of the first, and in the top of the second, Caltech's offense kicked into overdrive, scoring six runs and putting the game virtually out of Christ's reach.

Caltech showed no mercy. In the third inning, after two walks, Pat Harrison smacked a triple to drive in two. Two outs and two more walks later, Kurt Lemke doubled and drove in another two. After two more walks, Jim Hamrick doubled with the bases loaded to drive in two more. When the smoke

cleared, it appeared that the Beavers had scored seven runs in the inning to assume a commanding 17-0 lead in just three innings. Christ later managed to score four runs, but the game was called off after five innings due to frigid temperatures and the uselessness of continuing the slaughter. The final score was 17-4 in favor of the Beavers. Jim Hamrick had another good game, driving in four runs on two hits, and Pat Harrison added three RBI's of his own. Kurt Lemke also had a pleasant game, collecting two hits and two RBI's.

Tuesday's game against the LA Baptists was a tough seesaw battle for the Beavers. In the top of the first, the Beavers were retired in order. The LA Baptists scored three runs in their half of the inning. Not willing to roll over and die, the Beavers came storming back in the top of the second. Pat Harrison opened with a single. After a walk, Ed Casey singled to drive in a run, and after another walk, Michael Keating singled. With the bases loaded, Bob Mostert smashed a double into the right-center field to score two more runs, and Marty Hunt added a sacrifice fly to make a total of five runs in the inning. LA Baptists answered with two runs of their own in

the bottom of the second to tie the score at 5-5.

Each team scored one run in the following three innings to leave the score 6-6 after the fifth inning. In the sixth, with two men on and two outs, Jim Hamrick put one over the left field to increase the Caltech's score by three. LA countered with a run in the bottom of the sixth to narrow the score to 9-7. The next two innings were quiet, however, and in the top of the ninth, Caltech added one more run to make the score 10-7. In the second half of the ninth inning, the Baptist managed to load the bases. With two strikes on him, the Baptist's batter lofted a short fly ball into center field with the baserunners tearing around the bases. Much to the relief of the Beavers, Bob Mostert ran under the ball to make the play, and the Beavers emerged victorious 10-7. Bob Mostert had three clutch RBI's for the Beavers, and Pat Harrison claimed three hits in five trips to the plate. Micheal Keating had another good game, with two hits and scoring three runs. Ed Casey also had two hits.

Caltech hopes to extend its three game winning streak this weekend Pomona in a doubleheader at Caltech and continue its march through the record books.

Discobolus Standings

Fleming	20
Ruddock	17
Blacker	14
Page	9
Lloyd	6
Dabney	3
Ricketts	2

Interhouse Standings

Fleming	273.5
Page	238.5
Ruddock	207.5
Blacker	142
Ricketts	131
Lloyd	128
Dabney	39.5

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Caltech Cricket Cremates Camarillo

by Brian Warr

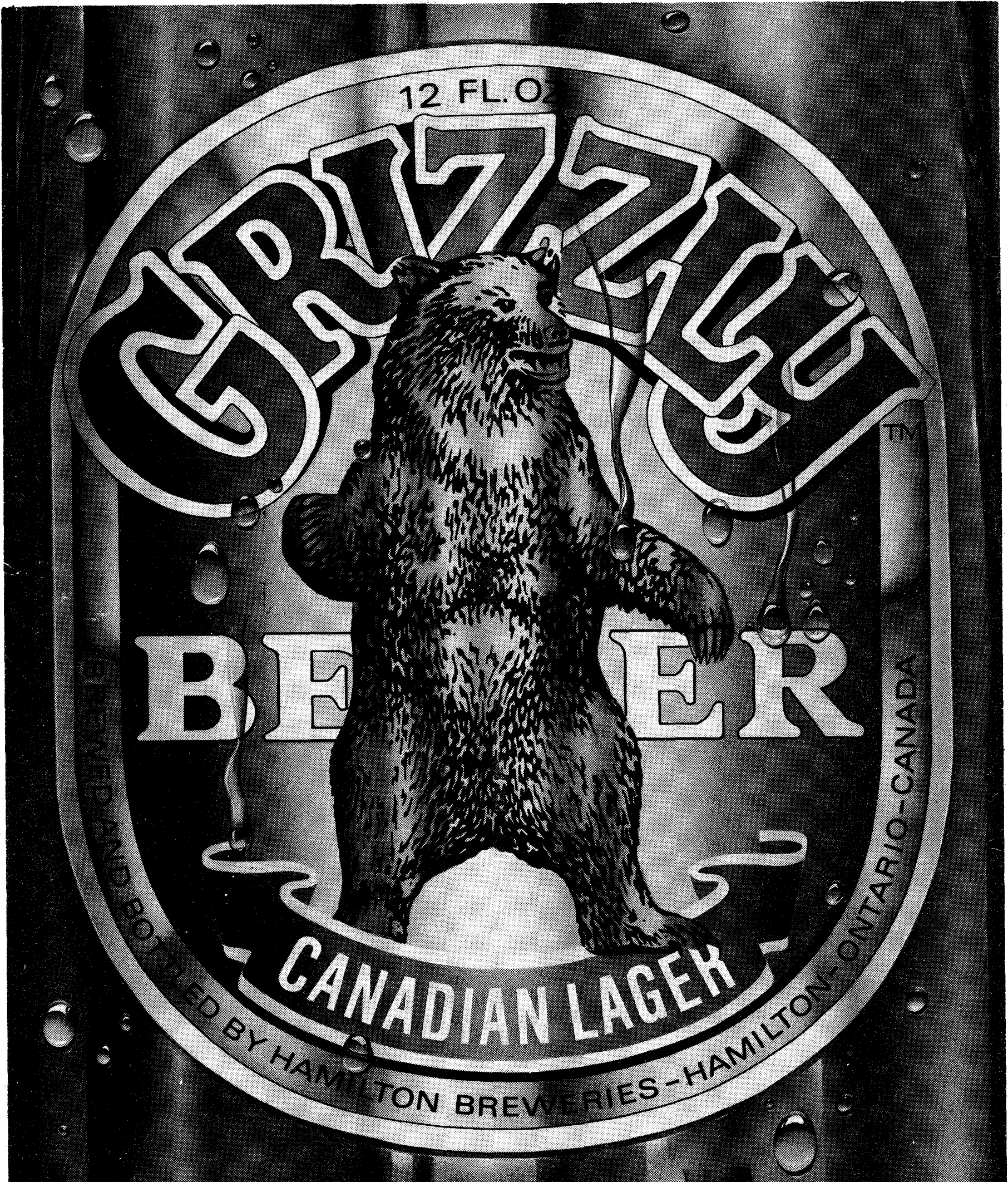
Caltech celebrated their first win of the season with an impressive 58 run victory over Camarillo Cricket Club last Saturday.

Put in to bat on a green, uneven wicket, Caltech started slowly, but with few alarms. The openers were dismissed as they tried to increase their scoring rate, but the middle order of Ramu (36), Narasimhan (11), Rakesh (14), and Rick (9) played extremely well. Ramu's fine innings included two fours and a six, and showed the value of playing straight. Rakesh, this time with Rick,

once again showed how to make a score by good running.

A late collapse reduced the score to 84 for 9, but the final pair, Sanjay and Ram, hit 20 runs unbeaten in the last two overs, giving Caltech their first hundred.

Camarillo never looked like getting the runs. Wickets fell steadily to the bowling of Rakesh (4-18), Ram (4-13), and Nadeem (2-10), with an attacking field maintained throughout. Off just 22-1 overs Camarillo were dismissed for 46, the last man fittingly being out to a great catch by Rakesh in the slips.



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Inside Information

Intercampus Bus Connects Caltech, UCLA and USC

by Jean Anderson

Caltech's library system is made up of its many different libraries and services. It also is part of a consortium of libraries: Caltech, UCLA and USC. Members of the consortium share resources and provide services to each other.

One service that is the result of this cooperative agreement is the intercampus vehicle. Twice each day stops connect the three campuses. This provides not only faster interlibrary loans, but also direct mail service and transportation

among these campuses.

For direct mail service the envelope should be marked INTERCAMPUS VEHICLE and left with any of our campus libraries.

For transportation to UCLA or USC it is necessary to make a reservation prior to the time you expect to go, as space is limited. Reservations may be made by calling Rod Casper or Pat Kelly on x6405 or at the reference desk on the second floor of Millikan, which is also the point of departure.

In the front of the Caltech phone directory is a brief schedule of departure times, and a more detailed schedule is available at the reference desk. There is one schedule for Mon-Wed-Fri and another one for Tues-Thurs. The Mon-Wed-Fri schedule allows about five hours at UCLA taking the morning run over and the late afternoon run back. USC is less convenient for a roundtrip, as a great deal of time is spent enroute—fine for a sightseeing bus, but very aggravating if you want to get there.

A Generation Ago —

From the November 31, 1963 issue of the Tech.

From Other Campuses

By Jace

In order to begin this week's column by giving some much needed reassurance to suffering Techman, it should be noted that Caltech's tuition isn't quite so high anymore when compared to the Eastern School. Both the University of Chicago and Tufts University are raising their tuition to \$1700 for next year. As for other company, a recently published survey revealed that at least 50 major colleges and universities now charge \$1400 to \$2000 per year for tuition and at least half of these made it known that they intend to increase these costs substantially during the 1964-1965 school year. Breathe a sigh of relief, Juniors and Seniors, Tech's good old \$1575 probably won't take another \$300 leap until '65-'66.

Pigskin Progress

Remaining in the reassurance and sympathy department, Tech can still feel good despite our 2 game losing streak merely by reflecting upon good old dependable Rensselaer which, true to form, has now stretched their streak to 29 or 30 (one loses count). Not so much can be said of our frosh team, however, as their recent 59-0 shutout by Pomona (56 at the half!) can hardly be compared favorably to RPI's frosh team, which pulled off a 6-6 upset tie. Woe for the days to come when RPI may rise to the heights of Tech's preseasonal national ranking of 612, and Tech replace them in the depths.

Machines Revolt

While we're on the subject of football, we might as well bring in the topic of Science. It seems that a faculty computer program at MIT which was computing grade averages made a few errors recently, such as giving grade averages of 1.7 to students with honor standing and changing relative fraternity standings by as much as 12 places in the scholastic rankings.

The MIT Tech also starts off with an interesting query, "If you had a seven-and-one-half foot snake that you didn't want, what would you do with it?" MIT thinks you should auction it off for charity — here they'd try to get him out for basketball.

Dear John ...

Not wishing to change the theme of technical schools we switch back to happy-go-lucky RPI, where the Polytechnic just printed the winner of its "shot down" contest for homecoming invitations. The winner is such a rare jewel that it's printed below.

"An awful lot has happened around here since I last saw you. I wonder if you're still the same ... I suppose so. I can still remember all the fun we had together ... It's a little difficult to put this in writing; I thought you knew; apparently not. A few months ago, school got to be a bore. At that time I felt I could go away with, even marry anyone just to get out of

that rut, even a forest ranger ... which is exactly what I did ... I know it must be a shock ... In fact, it's a shock to me ... Living here in virtual wilderness is much worse than I thought ... I'll be thinking of that lucky girl taking my place while I'm sitting here in my "tree house."

Scientific Sex

Now, heading South, we find the final proof that science can do anything. Two EE's at the University of Miami have devised a machine which can measure the kissing power of two people, giving its results by flashing lights and ringing bells. A hot kiss produces a double "woooo" and rings a bell.

Now, using the machine in numerous experiments, an exact method of making a girl has been determined. As the Georgia Tech Technique reports: "When the time comes to demonstrate your masculinity, you should not swoop down on your prey. You must move slowly for the essence of enjoyment is in its anticipation.

Precision Pays

"To have any scientific value at all a kiss must last one minute, four seconds, and should be repeated seven times in slow deliberate intervals, over a period of nineteen minutes, twenty eight seconds."

But until the Miami Casanovas come up with a transistorized model, the Techman will just have to continue using his instinct to determine how his date will react to his extracurricular activities.

The Tulare University Hullabaloo reports that the vending machines, or "6 buttoned bandits" as the paper calls them, have provided a new gambling fever to the campus. One freshman described the sad tale of his addiction in a recent issue.

Walking into the vending machine room, "I had no idea of the vice going on right before my eyes ... My first hint that there was something out of ordinary was when I casually glanced over and noticed one fellow shoveling a hand of nickels into a brown paper bag. I was utterly amazed, but the other upperclassman merely remained at the machines they were playing and gazed coldly at the lucky patron.

After being caught by the bug, he "first played 25 dimes 'cream and double sugar', and although I managed to lose each time, I did receive a half cup of whipped chocolate. After losing on 'pork and beans,' 'fruit punch,' winning a little on 'popsickle' and finally losing it all on 'cigarettes,' I had to quit."

I imagine it's only a matter of time before the bug hits Caltech and Techman will be spending long nights in a smoke-filled Winnett game room gambling away their scholarships on coffee and donuts.

BLOOM COUNTY

by Berke Breathed

SO THE CASE OF "THE CHARRED-CHESTED CHUMP" COMES TO AN END. AND HERE COMES THE PLAINTIFF NOW...

MR. DALLAS... YOU LOST YOUR CASE, JUDGE WAPNER YELLED AT YOU, AND YOU'VE BEEN HUMILIATED IN FRONT OF MILLIONS OF PEOPLE... WHAT DO YOU HAVE TO SAY?

I DON'T FEEL LIKE TALKING ABOUT IT.

JUDGE WAPNER CALLED YOU A "24-KARAT IGNORAMUS." I WONDER IF—

TO COMPUTE... OR NOT TO COMPUTE... THAT IS THE QUESTION...

WHETHER 'TIS NOBLER IN THE MEMORY BANK... TO SUFFER THE SLINGS AND CIRCUITS OF OUTRAGEOUS FUNCTIONS...

...OR TO TAKE UP ARMS AGAINST A SEA OF TRANSISTORS. OR RATHER, TRANSISTORS... TRANSISTORS... ER...

OH, TO HACK WITH IT.

WHAT IS THE NATURE OF GOD?

TAP... TAP... TAP... TAP... TAP... TAP...

CLICK... CLICK... WHIRRR... CLICK...

BEEP! 1 QT. SOUR CREAM. 1 TSP. SAUERKRAUT 1/4 CUP CHIVES. STIR AND SPRINKLE WITH BACON BITS.

I'VE JUST GOT TO START LABELING MY SOFTWARE...

I'D LIKE EVERYONE TO KNOW THAT I'M LOOKING FOR NEW DIRECTIONS IN MY LIFE! I'M DOUBTING MY OLD VALUES AND REASSESSING MY FEW ACCOMPLISHMENTS... AND FRANKLY, I'M GETTING A LITTLE DEPRESSED ABOUT THINGS!!

MIDDLE AGE HAS COME A WEE EARLY FOR MR. BINKLEY.

AND WHAT ABOUT THIS BUSINESS OF DEATH? I DON'T LIKE IT!

I'M IN A BAD MOOD! A BAD, UGLY, STINKY MOOD AND I DON'T MUCH CARE FOR IT!

AWRIGHT, DANDELIONS... GET TO IT! CHEER ME UP! RIGHT NOW! CHEER ME UP OR, SO HELP ME, I'LL TAKE MY FRIENDSHIP ELSEWHERE!

BIG MOUTH.

I'D LIKE TO APOLOGIZE FOR MY BEHAVIOUR YESTERDAY. I WAS A FOUL-MOUTHED DULLARD AND SHOULD BE PUTTIFULLY KEEL-HAULED FOR IT.

IN HOPE OF ONCE AGAIN SITTING TOGETHER IN BROTHERHOOD, ALLOW ME TO OFFER THE FOLLOWING GESTURE AS A TOKEN OF MY AFFECTION...

SO WHAT'S A PAMP TUSH BETWEEN GOOP FRIENDS?

announcements

Eugenics Scholarship

The Charles M. Goethe Memorial Scholarship, administered by the Sacramento Bodies of the Ancient and Accepted Scottish Rite of Freemasonry, is open to students who meet the following requirements: 1) enrollment at any accredited college or university; 2) majoring in anything, but preferably in fields related to Eugenics, i.e. Biology or Life Sciences; 3) membership or senior membership in the Order of DeMolay or being the son or daughter of a member or of a deceased member of a constituent Masonic Lodge of the Grand Lodge of Free and Accepted Masons of California. Students who meet the above requirements may obtain applications by writing to the following address: Sacramento Bodies of the Ancient and Accepted Scottish Rite of Freemasonry, Post Office Box 19497, Sacramento, CA 95819. Grants will be awarded on a competitive basis and applicants are required to meet with the screening committee. Deadline for receipt of applications is June 10.

Frosh Barbecue/Social

Freshman: want to meet new, exciting people? On April 28, the day of the big party, there will be an inter-campus freshman barbecue/social. All Caltech freshman are encouraged to attend, as are Oxy, Pomona, Scripps, Pitzer, and Harvey-Mudd frosh. Plan to be there - on the Olive Walk at about 5:30 to 6:00. See Brian Ruess, Page 204 or 228 for any questions. This is another UCF production.

OWC Brown Bag Lunch

Rosalie Branigan, dancer, choreographer, and dance exercise teacher (who has two classes at Caltech), will present a noontime demonstration/participation program, sponsored by the OWC (Organization for Women at Caltech), on Wednesday, April 11, in Dabney Lounge.

Branigan, who has an extensive background in modern dance and ballet as well as in liturgical dance and Spanish dance, is currently director of dance ministry for the Claremont United Methodist Church. At Caltech, she will give a brief talk on "Women's Health and Fitness," focusing on the benefits of dance exercise and the dangers of improper exercise, followed by a demonstration of dance exercises which the audience will be invited to take part in.

Branigan at one time studied with Jose Greco and also with Bronislava Nijinska. She currently conducts dance exercise and dance classes for men and women ranging in age from three years to eighty.

The noon-to-1 pm OWC program is free. All members of the Caltech community are invited to attend.

Contribute to Totem

There are only a few weeks left to contribute to this year's Totem! Send your contributions to David Sahnaw, 1-55.

Ebell Scholarships

The Ebell of Los Angeles Scholarships are an outright gift, payable per month, during the school year. Student's home residence must be in Los Angeles, and the student must be a registered voter if eighteen years of age or older. Minimum GPA of 3.25 and single status required (those marrying after obtaining a scholarship automatically forfeit the scholarship). Moral character, scholarship, financial need, citizenship, and leadership are all carefully weighed in considering these scholarships, so shape up out there! Contact the Financial Aid Office for more details, like the address they forgot to include, since the application deadline is April 30.

Caltech Coffeehouse

The Caltech Coffeehouse will open tonight for the third term. If there are any questions, contact either Jon Hatzberg, Les Grate, or Jack Ausman at X6173. Be there.

Faculty/Student Committee Nominations

Nomination for Faculty/Student Committees are now open and will remain open through this coming Monday. The sign-ups are on the door to the Master's Office. For more information of the functions of these committees, see the *little t* or ask your house president.

Leadership Talk

Dr. Robert Lucky, Executive Director, Research, Communications Sciences Division, AT&T Bell Laboratories, will talk on leadership in a scientific environment, Tuesday, April 10th, at 4:00 pm in Dabney Lounge. Pizza and soft drinks after the talk. The talk is sponsored by AMETEK Corporation.

Be An Olympic Cop

A representative from California Plant Protection will give a presentation on Monday, April 16, at 11:30 am in Winnett Lounge. They are offering full-time employment as Private Security Officers during the 1984 Olympics, with assignments lasting from 6 to 8 weeks or longer. Students, staff and academics are invited to apply. Drop by the Career Development Center, Room 8, Parsons-Gates for more information and to sign up for the recruiting meeting.

KELROF

Kellogg's Eighth Light Regiment of Foot (or at least its spirit) will run again on May 19-20. For the uninitiated, KELROF is a 24 hour relay, run by teams of ten people. Each leg is a mile, so each person on the team runs once an hour or so, depending on the team's speed.

Even if you're not interested in running, your help is needed. In particular, we need people to time runners and help set up and tear down.

If you would like to run or help, or are just curious, call Dave Gallup at X6180.

Radioactive Dreams?

A new science fiction movie has just gone into production, and *you*, you lucky little devils, may get to be an (unpaid) extra in it. Yes, *Radioactive Dreams*, co-produced by the people who brought you *Sword and the Sorcerer* and *The Ballad of Gregorio Cortez*, needs a bunch of college-aged extras who want to work for the benefit of a moment on the silver screen. The premise of the movie mixes *Road Warrior* with *Maltese Falcon* in a post-holocaust world of tribes grouped around their favorite stereotypes (hippies, bikers, punks, disco...gads, the implications of post-holocaust disco!). Anyway, if you are interested, call Judy or Sandi at Radioactive Dreams Productions, Inc. (213) 202-3353 or 202-3510 by April 15. This could be your big break.

Be a Fencer

The Caltech Fencing Team is looking for new members for next season because of the loss of graduating seniors. During its season, the team has challenging matches with large schools in Southern California such as UCLA, UC Santa Barbara, and UC San Diego. Also each year the team meets one or more schools in northern California: Stanford University, UC San Francisco, and San Jose State.

Anyone interested of being on the team should have taken at least one term of fencing. Those who have taken the beginning fencing class are encouraged to take the advanced class and practice with team members.

The beginning class is held from 7:00 to 8:00 p.m. Tuesdays and Thursdays in the gym. The advance class is held from 8:00 to 9:00 p.m. on the same two days. Also any people who just want to get a flavor of this European sport are perfectly welcome to sign up for the class.

Tech Staff Meets Monday

at 12:15 pm in 127 Baxter. All are Welcome.

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TEST YOURSELF: Can you manage your time productively? Work 2-4 hrs/wk consistently? Are you success-oriented? Self-motivated? Marketing position available on campus. 1-800-243-6706.

Coin Auction

The April 18 meeting of the Caltech-JPL Numismatic Society will feature a coin auction. Bring your cash and come prepared to bid on the choice material available. During the evening, some lucky and energetic bidders will acquire pleasing additions to their collections.

All Caltech and JPL personnel and their families are welcome to attend meetings which are held the third Wednesday of each month, 7:30 p.m. in the Church Lab Building on campus.

Caltech Bayit

Would you like to live in the Caltech Bayit next year? The members of the Bayit observe the Jewish holidays, keep Kosher, and generally create a modern Jewish atmosphere. If you would like to be invited to dinner and learn more about the Bayit, please call Albert, Alvin, Israel, or Judy at 793-3859.

Help Soviet Jews

The Caltech Hillel is having a deli dinner (cost \$2.00 per person) and a guest speaker on Sunday, April 8th, from 4:30 to 6:30 pm in the Red Door Cafe, upstairs in Winnett Center.

A.S.M.E. Meeting

There will be an A.S.M.E. meeting at 4:30 in 210 Thomas on Wednesday, April 11. Contact Alaric Clinton X6829 if you have any queries.

Lost your t's?

We are ridding the *Tech* office of the back copies of the *little t* (no, not all of them). If you like an old (or new) *little t* just pick them up in Winnett Center under the travel board.

Tibet

"Tibet" concludes the 1983-1984 Armchair Adventures travel film series at Caltech. Jens Bjerre personality narrates this presentation Friday, April 6 at 8 p.m. in Beckman Auditorium.

Located within the Himalayas, Tibet is one of the world's most remote areas. Bjerre's film recounts a journey over 17,000 foot high mountain passes to a Tibetan village where he witnesses some of the harsh realities of the villagers' daily life.

Continuing to Lhasa, the capital, Bjerre tours a People's Commune and visits a "ghost" monastery. He also takes part in a Buddhist pilgrimage and enters the Potala Palace, the 16th century palace of the exiled Dalai Lama.

Since its absorption into the People's Republic of China in 1951, Tibet was closed to Western film crews. Bjerre was surprised when the authorities invited him to make a feature film on Tibet.

Tickets to this film are priced at \$6.00-5.00. CIT student rush tickets at \$4.00 each will go on sale beginning one hour prior to performance time (subject to availability). Tickets are available at the Caltech Ticket Office, located just north of the Beckman Auditorium parking lot.

Work In Japan?

A Caltech alum is offering two jobs in his Japanese factory for the summer. Travel, room and salary provided. Students will be doing basic factory work. If interested, see David Wales in 102 Parsons-Gates, or Sally Asmundson in 08 Parsons-Gates.

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