Happy Birthday Unca Donald

THE

CALIFORNIA | ECH |

Chairman Cohen 50! (acts 48...)

VOLUME 86

PASADENA, CALIFORNIA / FRIDAY, NOVEMBER 30, 1984

NUMBER 10



The Caltech Football team can relax for a while after posting a 5-3 season.

<u>Feature</u>

Health Insurance Plans Investigated

by Lily Wu

to include coverage for pregnancies and elective abortions is presently awaiting an approval decision from the administration. The proposed plan was developed by the Health Committee last term after much research and discusion and, though it has been endorsed by the Committee which includes faculty, graduate, and undergraduate studens, it still leaves problems unresolved and parties dissatisfied.

Last fall, the Caltech Women's Club (faculty wives) brought the issue of extending pregnancy benefits to all Caltech students and their spouses. The reasons given for this proposal was to make Caltech more attractive to graduate students (primary beneficiaries of pregnancy benefits), and to help address a recognized health need of students who have limited financial resources.

It was felt that since faculty and staff members were covered for delivery expenses, graduate students should be too. After the first year or two, more in a faculty or staff research capacity than as a student. Financially, graduate students also have a greater need for coverage because student stipends are much less than faculty or staff salaries. Undergraduate students or even undergraduate spouses rarely have need for such coverage. A high percentage of undergraduate students are also covered by some sort of family plan from their parents, which is again not the case for graduate students. Therefore. the Health Committee felt that a need for such coverage clearly existed.

From an administrative point of view, such a policy

A proposal to update the about Caltech's attitudes student health insurance plan towards the enrollment of women students. To help attract and keep good graduate students, Caltech needs to have stipends and benefits, and working conditions and attitudes which are supportive and competitive with both other graduate schools and industry.

Benefits available here should at least equal those of competitor schools (both MIT and Stanford cover their students (spouses not included) for pregnancies and elective abortions). Though it is recognized that an institute can not come close to matching stipends to industrial salaries, students should not have to sacrifice basic health benefits by being offered a policy which is substantially inferior to ones offered by companies (most cover spouses).

However, after reviewing several possible plans that the Institute could offer to students and spouses, it was found that student coverage, graduates undergraduates, was relatively in expensive for Caltech to the grad students - as adopt, while most spouse plans -employees argument. They seemed prohibitively expensive. cover pregnancies and aborto as much as \$1200 a year. Vice President of Student Afno longer be worthwhile for a \$3000.

Therefore, the final proposal presented to the Ad- covering only students for ministration by the Health deliveries might also be Committee has no provisions discriminatory. The addition of worked out for spouse

makes a very positive statement coverage. It only insures students. (It is estimated that there are approximately 6 cases of deliveries and 6 cases of abortions per year among female students at Caltech). The proposal was presented at the beginning of this term and no decision has been reached

The Graduate Student Council (GSC) endorsed the proposal on November 1, but their Health Committee representative, George Carmen, indicates that the proposal is still less than satisfactory and even disappointing. He expressed dismay that administration reduces the problem to a strictly financial one. Spouse coverage can be obtained at a much lower cost if the Institute self-insured the students rather than obtaining a carrier company to handle the policy.

He also thought that the Institute should help defray the cost of the insurance, in recognition of the health need which requires addressing.

The administration's purely and financial frame of mind was manifested in their rebuttal to mentioned that only 620 of the To cover just students, per stu- 950 grad students were dent insurance cost to the In- employed by the Institute as stitute would only increase either a GRA or a CTA. And from \$188 to \$215. For even they were part - time spouses, optional policies can employees because their GRA be purchased by a student to or CTA duties do not exceed 15 hours per week. Students tions at a cost range from \$500 therefore can not possibly qualify for the same benefits as staff employees. Carmen adfairs, James Morgan believed dressed the issue as one of that at such a price, it would equity and fairness though, "graduate students contribute a student to insure. The lot to Caltech and deserve to be estimated cost of a delivery is treated at least as well as staff."

present proposal This

Star Wars Petition Signed By 300

by Hossein Mohammad

Some three hundred Caltech community members, including several of the Institute's Nobel Laureates, have Laboratory carries on some

The petition calls on elected government representatives to declare an immediate moratorium on the development and testing of all space

weapons. believe technological panaceas to the Caltech Space Weapons Study problem of national defense, Group, although several other such as the Strategic Defense organizations have helped cir-Initiative, rely on assumptions of questionable technical and pus. The petition has not been strategic validity," states the circulated in JPL. Citing its petition. "These programs," it continues, "are at best an enormous waste of scientific and in fact increase the risk of permission for the petition's nuclear war de-stabilizing the circulation. existing strategic balance.

itiative, commonly known as Caltech Nobel Laureates, are the Star Wars program, has two of the faculty members

tures and public discussions on campus this year. The issue is of particular relevance to Caltech. The Jet Propulsion signed a petition opposing the S.D.I. research on tracking and "Star Wars" program of the Reagan Administration.

Eabolatory carries on some specific specif operation is known as Talon Gold.

The petition has attracted most of its signers from among graduate students and faculty members. Its text was drafted that over the summer by the culate it on the Caltech camcommittments to NASA to keep its government-owned facilities free of political activifinancial resources and could ty, the Lab has not granted

Prof. Richard Feynman and The Strategic Defense In- Prof. Murray Gell-Mann, both been the subject of several lec- who have signed the petition.

Promising Young Scientists Named

by Lily Wu

SCIENCE Digest compiled a list of what they considered to be the most promising 100 young scientists (under 40 years of age) in the United States and only one of them, Michael Cross of Theoretical Physics, is from Caltech.

The magazine contacted a group of 60 senior scientists to nominate and select the group of 100. Of those 60, 5 were Nobel prize winners and 14 were originally part of a FOR-TUNE magazine list of the top 20 scientists of 1954. Among those 55 are Freeman Dyson, Richard Garwin of IBM, and Seymour Benzer, the only one from Caltech. They are mostly national lab directors, eminent academia scientists and industrial researchers.

The top 100 scientists that already made discoveries or contributed to their field in some original way. The San Francisco Bay area contains the greatest brain trust with 26 of the top 100. Most of them are from Stanford, UC Berkeley, Lawrence Livermore Labs or one of the silicon valley research companies. California led the nation with 32 scientists; New York had 15, New Jersey Massechusetts 10.

25 percent of the top 100 are employed by industrial companies, most notably from General Electric, AT&T Bell Labs, Sandia National Labs (an AT&T subsidiary) and Ducontinued on page 2 Pont. Those 4 companies ac-

counted for 14 of theose 25. The universities most represented by the 52 percent in academia are Stanford and UCB, each with 8, MIT with 4, and Harvard, Princeton and University of Chicago all tied with 3 scientists each.

30 of the top 100 work in research labs run by either the government or universities. (7 of those 30 are counted twice because they hold both university and research lab positions.) The most prominent research labs are Los Alamos National Labs, Argonne National Lab and Lawrence Livermore Labs.

Other statistics generated from the to 100 are as follows: The academic group are paid higher than either of the other two groups. 80 percent of the academics earn more than \$75,000 while only 61 percent ev chose were ones who have of the industrially employed and 42 percent of the laboratory employed do. The highest income in the group (\$150,000) is earned by an academic. The 100 scientists consist of 10 women and 90 men. There are 24 biologists, 22 physicists, 13 computer scientists, 14 chemists, 10 astronomers, 5 mathematicians, 5 psychologists and 3 environmental scientists.

The backgrounds of the 100 also vielded interesting information. 50 percent grew up in rural areas of 50,000 population or less, and only 21 percent in cities of more than one million. 81 percent were educated in public schools and

continued on page 3

***!New York** An Academic Diet

by Ken Whang

I've been here at Columbia for nearly three months now, and it's still hard for me to pinpoint exactly why I'm happy about transferring here from Caltech. Sometimes big significant - sounding things will irk me, like crime in NYC or the distance between faculty and students here at Columbia, but after considering my overall situation, via some vague, bigger picture which I can't easily break down into individually digestible items, I'm always glad in the balanced that I've changed schools.

I've put in quite a big investment getting where I am, then if based only on such a vague undefinable notion. I've expended a great deal of energy breaking with the status quo by applying to another school, then deciding to come here, finding housing, and settling into a new environment. Never before have I been so personally responsible for my situation. as I am now. Never before has my situation consequently felt so precarious and fragile.

The things that I think have really made being at Columbia worthwhile are not the kinds of characteristics that I looked into when I was comparing colleges in high school. They are not the kinds of items you will find tabulated in statistical summaries of schools; they are

somewhat less tangible. My time is less structured; I have fewer weekly problem sets and spend more of my time on longer term assignments which break down into small, flexible blocks, and a lab project, which is elastic.

I really enjoy being able to do a thorough job on each of my problem sets and papers, something that hardly ever seemed to fit into my schedule at Caltech. Because of the liberal arts environment, I have greater variety available both in the courses I select and in the people I come across. Having NYC at my door step does wonders in the areas of consumer products available and entertainment possibilities. I've actually been really busy lately as the term comes to a close. Even Caltech busy on several occasions. But when there is a lull in my workload, I really appreciate having most of Manhattan less than half an hour and a subway token away.

characteristics I've The mentioned, of course have as much to do with inherent qualities of Columbia as with what I've made with my situation as a student here. What they sum up to psychologically is a feeling of greater independence than I had when I was at Caltech. I can see how another student with a different outlook from mine might make a completely different situation out of attending the same school, and find himself much freer to do what he wants to do at Caltech than Columbia.

When I think about it, I still miss Caltech in some ways. Maybe it's the same way that Holden Caufield in The Catcher in the Rye ended up missing his school and various other character he had come across, all of whom he really hadn't liked. In retrospect, everything softens a bit and the past can almost always make itself look better than the gritty reality we face day to day. I think I miss what I perceived as the intellect attitude at Caltech.

The emphasis of the conceptual over the factual and idea that we needn't accept things that don't make sense just because they exist, but that we can be innovative and try new things when appropriate appealed to me. I guess that last idea I brought with me as much as it finally brought me here. The educational policies at Caltech struck me as always well - intentioned, but too often misguided, at least for my purposes.

In any case, there were some valuable concepts and ways of thinking that I picked up at Caltech which I doubt I would have gotten at Columbia. Similarly there are mental treasures to partake in here at Columbia that are not available at Tech. I don't regret having spent two years as a Caltech student and I don't regret transferring to Columbia. In fact, the 2-2 plan may turn out for me to be ideal undergraduate diet.

==== letters=

More On BOC Inactivity

To the Editor:

tion about the BOC and the about it is that it works. way that they handle (or don't two bits to the fire.

ing collaboration on homework tally flawed? where none (i.e. none) was final grade on homework tention of the then BOC chair-

ed Eliza Sutton during the mid- or by vindicating their reputadle of the year, I raised the tions. (That's a hint to the curissue with him in the hope that he would act upon it where she also like the problems I have did not. There seems to be no seen about the BOC to be well hope. This angers me.

I am very respectful of the Honor System, which I see as a real asset to Caltech, if it REALLY WORKED, that is. And I can speak from ex- made clear to the BOC that I perience that it does in fact am both angered and disillu-"work" even when the BOC is signed by their decisions to not never involved. But why is it that when the BOC is required to handle a suspected violation, that they do not? (Or more accurately, that the chairmen do not?) They certainly say that it works often enough: there's the little pamphlet, the talks at frosh camp, and the mandatory frosh talks first term.

And I at least have heard It seems that there is a enough times from then up. growing amount of dissatisfac- perclass students that the thing

Has it changed since then? handle) cases offered before Or were they misinformed? Or them. I'd still like to add my what? The number of letters to the editor concerning the BOC I observed what I still think alarms me. Has the Honor of as a rather blatant violation System been entrusted to inof the Honor System concern- competents? Or is it fundamen-

I was taken unfair advanallowed. (This course based the tage of, of that I have no doubt; yet it seems that these alone.) This I called to the at- people got away with it; some got grades that I feel they man who promptly did nothing simply do not deserve. I'd certainly like to see justice served, When Fred Ferrante replac- either by adjusting their grades rent BOC, by the way.) But I'd known, and to be solved. And if not, why not? Perhaps it isn't all as idyllic as they would have me believe.

> In any case, I'd like it to be do anything about what I saw as a clear case of unfair advan-

> > -Bruce Tiemann Junior, Ricketts

THE CALIFORNIA TECH

olume 86 Number 10 Friday, NOVEMBER 30, 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 dinner time (Tuesday evening for announcements). Late copy may not be printed unless previous arrangements have been

made with the editors.

Lawrence Anthony

Editor in Chief Chris Meisl Entertainment Editor . . . Matt Rowe Columns/Features Editor . . Lily Wu Sports Editor Santosh Krishnan Announcements Editor John Beahan Photo EditorMin Su Yun ReportersMike Chwe, Behzad Sadeghi, Lily Wu, John Beahan, Julian West, Irene

Replogle. Photographers Ron Gidseg.

The Inside World Bob Bolender (Ricketts), Jim Bell (Blacker), Joel Seeley (Dabney), Ravi Subramanian(Lloyd), Chris Mihos (Ruddock), Warren Goda (Page), Ed Zanelli (Fleming)

Production . .. John Beahan, Nick Smith, Lily Wu.

Business Manager . . . Karla Peterson CirculationGavin Claypool

Paul Gillespie

Room 107 356-6154 Editor: Business Manager: 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 0098-1582



KING

Sandwich Deli 1443 E. Colorado Blvd. (Colorado at Hill)

Introducing the Royal Meal

only \$1.99 plus tax with this coupon

(Any regular size hero, medium drink and your choice of potato | salad, macaroni salad, or baked beans)

Now through 2/10/85

Plans Reviewed For: Students Health

from page 1

a child to a family is a family stipends. health and financial burden. and equity, one cannot justify covering deliveries for female student families and not male student families.

All these issues were cited dissatisfaction with the present health insurance proposal which makes no mention of ing, health insurance, and problem.

Nonetheless, Bruce Cain, I Again, as a matter of fairness chairman of the Health Com- I mittee, feels that it would be significant if this present proposal is approved. With such a _ complex problem, "sometimes it is easier to solve it pieces by Carmen as causes for rather than not do anything until the entire issue is completely resolved." The spouse issue has no proposed solution spouse provisions, now or in in this plan, but both Morgan the future. In general, he felt and Cain indicated that it is that Caltech's administration not a lost issue. The problem needs to be more responsive of spouse coverage simply and receptive towards graduate needs more time to be worked student problems such as hous- out than the student coverage

MEASCIT MOVIE **TONIGHT at 7:30 and 10:00**



in Baxter Lecture Hall 50¢ ASCIT members \$1 all others

The Caltech Y Fly-by

Friday...November 30

Noon concert, stop by and get an earful, on the Ouad at noon.

The Hands of its Enemy, pick up your tickets today, go tonight.

Sign up for a Ski Trip, December 16-22. \$90 covers everything except lift tickets.

Tuesday...December 4

Noon Concert, (yes, its on Tuesday this week), Robin Flower, Blue Grass (sort of). At noon on the

Poetry Reading: Charles Bernstein, a New York poet will give a reading of his work today at 4:00 p.m. in the Judy Library in Baxter. Refreshments will be provided.

Saturday...December 8 and

Saturday...December 9

DECOMPRESSION: food, fun films, games and graffiti. Winnett Lounge. (more info next week)

If you need a holiday ride to the Hilton, talk to us early. For more information, contact the Caltech Y at 356-6163, or just drop by.

One Tech In Top 100

from page 1

63 percent of their fathers had college degrees, as well as 49 percent of their mothers. 63 percent were either only children, eldest child, or only son or daughter.

Finally, as could have been expected, 92 percent believe science has contributed more good than harm to society and 85 percent believe that this will continue to be the case in the next 20 years.

A biographical sketch is provided on each of the 100 in December's SCIENCE Digest in an article entitled "America's 100 Brightest Scientists Under

Work For The Tech

Anyone interested in journalism or graphic arts should consider signing up for PA 15 next term and work for The California Tech. PA 15 is a 3 unit class that meets every Friday at 12:15 in 127 Baxter for about three-quarters of an hour. Your input to the newpaper is very welcome.

Ascit elections are coming up early in second term. Students interested in editing should consider some advanced experience, especially with the new equipment that has just arrived.

Grad students, get involved too!

The Inside World

Lloyd: Inferno scurried ahead of Tropicalley to win an unusual Alley Challenge. Dave, it takes a person like you to come up with that one (Tiger!). Cave "jello-od" over Virgin Islands in a hilarious challenge. Kaos vs. HQ on

Interhouse soccer is over, and we still don't know where we stand. Nevertheless, it is December now, and obviously, the time to swim. Sign up for Interhouse swimming now, and get wet!

Jay's 15 minute flick on planes and contraptions was pretty disturbing. Maybe one day, Jay will tell us what the heck was going on in the

Christmas "Blow-out" on Saturday - food, movies, and friends. Be there!

Only 2 weeks before Christmas vacation... snow... skiing... good food... the casual life. Ruddock: Welcome back for another exciting week of the Buddock inside world. Let's see what I have this

Well, last week was Thanksgiving and the Budd was kind of mellow since everyone bolted out of Calpeak for a vacation. (Yes, the mountains were pretty cold. But the whiskey helped.)

Anyway, this week the social event is--well, Sherry calls it "tree-trimming." The decorations are preparation for next week's big Christmas and Harmonica (sorry, Phoebes, I just don't know how to spell your holiday) party. (Ho, ho, ho and all that sentimental stuff). So anyway, come out and waste a Friday night decorating the tree.

But the talk of the week is really the new combo locks all over Buddock. Yes, that's right, the locks that we

ordered last year are finally in. So hopefully it will keep out all the unwanted element (i.e thieves, muggers, maids) from our rooms. But, then again, it gonna be a whole lot tougher keeping those hoodlums from doing the hider.

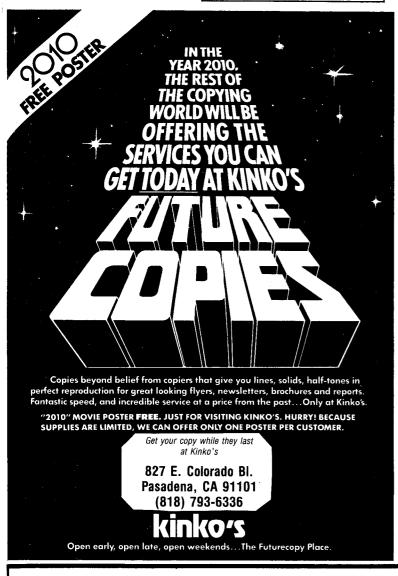
A few other things... Pay Sheldon P. for your mugs so she can order them. Pay me for your barbills so I can restock. And last, but most important, Anirvan has a new nickname: Terry. Make sure you call him that from now

Let's do it to them before they do it to us.

You've got 9 homework assignments to finish, finals are about to crash down over your head, and your girlfriend is now seeing Matt Zell. What do you do?

Drink beer, of course. This weekend will be the second Annual Beer Drink-Off. Athletes from the frosh, sophomore, and junior classes will cool down after the competition by joining the Third Annual John Herndon Handshaking Contest. What about the seniors? If we ever thought about them, they would be invited also.

This is the obligatory athletic message about soccer. Special thanks to Blacker House. By the way Blacker, keep Glory Anne away from the beer kegs this Saturday.





Serving Caltech & JPL since 1938

Pasadena's only complete source of ART, DRAFTING, CHART-MAKING. and LAYOUT supplies.

Now open Thursday evenings until 9.



1292 East Colorado Blvd., Pasadena CA 91106 (213) 681-0615 Callech Student Discount (818) 793-4-ART

Buy Caltech Cards and save 20%

CAITECH'S

Buy Caltech Cards and save 20%

BURGER CONTINENTAL

TO ALL CALTECH STUDENTS AND FACULTY:



Have your BREAKFAST with us 6:30-11:00. Ham, bacon, or sausage, 3 eggs, country potatoes, and zuchini bread for only \$1.99 with Caltech ID, Monday thru Friday.

> SPECIALTIES: SHISH-KABOB, SHAORMA, SOUVLAKI-STEAK HOMEMADE PASTRIES: BAKLAVA, BURMA, AND NAPOLEONS

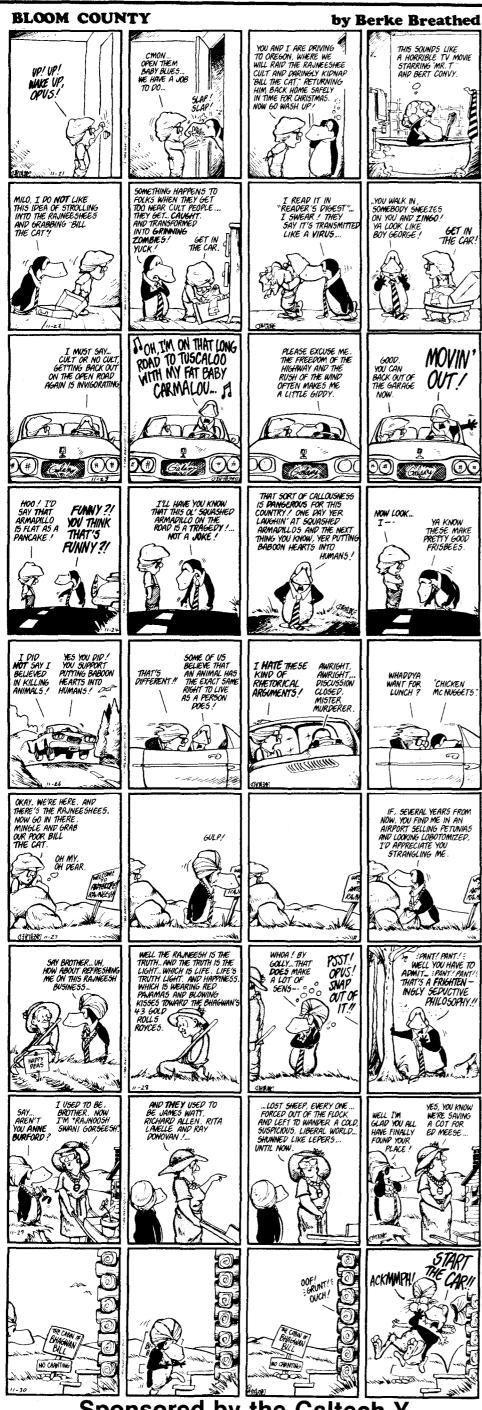
good food at reasonable prices refills on soft drinks at all times seconds on salad bar

For the Entire Month of December

A free root beer float to all Freshmen, and Sophomores

Faculty, Grad Students, Attend! Mondays and Tuesdays are Beer Days. Half price on beer.

On Laké Avenue 1/2 Block North of California



Sponsored by the Caltech

=entertainment =

Xmas Show Presented

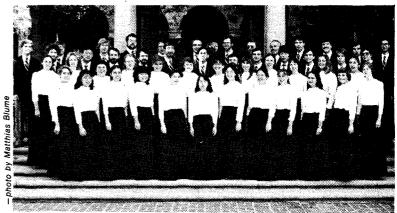
by Michael Chwe

This weekend the Caltech community celebrates the holiday season with "A Star for Each: A Celebration of Miracles," presented by the Caltech Glee Clubs, directed by Donald Caldwell and Monica Hubbard. There are three performances at Beckman Auditorium, at 8 pm on Friday, Nov. 30 and Saturday, Dec. 1, and at 4 pm on Sunday, Dec. 2. Tickets can be obtained at the door or at the Caltech Ticket Office (356-4652).

"A Star for Each" is a distinctive holiday event, featuring music and drama from both the Hanukkah and Christmas traditions. Participating in the music will be many performing groups drawn from the Caltech community, including the Caltech Men's and Women's Glee Clubs, the Caltech Chamber Singers, a Chamber Orchestra, and a Double Brass Choir.

The program also features members of the Caltech community in dramatic vignettes, including Huston Horn as Joseph, Susan Cave as Mary, Richard Dean as St. Nicholas, and Mark Goodstein as David. Al Hibbs and Myra Baxter will perform in a vignette concerning the story of Anne Frank, and Chris Brennen will read excerpts from Les Miserables.

"A Star for Each" offers a rich variety of music and drama which promises to be enjoyable and entertaining. Everyone is invited to come join in Caltech's traditional celebration of the holidays.



Caltech's Men and Women Glee Clubs

JOHN W. CHU DMD MODERN DENTISTRY

Member of:

American Dental Association California Dental Service Caltech Alumni Association

1016 Fair Oaks Ave. South Pasadena, CA 91030 818-799-0852

Hours by appointment.

TINA & MICHAEL HAIR DESIGN

For Men and Women

Haircuts, Perms, Color Manicures, Pedicures

20% Off to Caltech community

By Appointment Only Tuesday through Saturday 991 E. Green St., Pasadena CA Parking on 108 S. Catalina 793-2243 or 449-4436

DISCOUNT AIRFARES

Puerta Vallarta	\$97 ea	Acapulco	\$125 ea
Mexico City	\$189 ea	Guadalajara	\$171 ea
Cancun	\$195 ea	Mazatlan	\$86.ea
San Jose	\$58 ea	Reno	\$58 ea
Las Vegas	\$43 ea	Tucson	\$54 ea

Also—Red Onion gift certificates at discount!

(818) 242-7988

(818) 242-7989

THE HAIR CUTTERS

HIS AND HERS **OPEN EVENINGS**



449-6967 449-1022

\$3.00 Discount for Caltech students with this Ad

1009 E COLORADO PASADENA **NEXT TO THE ACADEMY THEATRE** PARKING IN REAR

entertainment

Falling In Place

by Charles Barrett

Falling In Love
Paramount Pictures

Whether it is a chance meeting or a surreptitious rendezvous, truly romantic interaction between two people depends heavily on timing. Timing can be the difference between a passionate interlude and a painful fiasco, and yet it is so often left to random chance. For Molly Gilmore (Meryl Streep) and Frank Raftis (Robert DeNiro) whom we see Falling In Love (Paramount Pictures), time and place and manner capriciously conspire to bring them together, and then leave them to their own devices, letting the cards fall where they may.

For the first several minutes of the film, we follow them into New York on the morning train and trace their path from Grand Central Station to a hotdog stand to Bloomingdale's. Through all of this they are tantalizingly (and coincidentally) near one another in the bustling throng of Manhattan's Christmas shoppers, yet totally oblivious to each other's existence. They meet only after a chance collision in a book store leaves their respective packages strewn on the floor, and even then the event is forgotten until Christmas morning when each discovers that they had taken the other's book. Both Molly and Frank spend a blasé Christmas with their dispassionate spouses, and even

though the mix-up is the most interesting thing that happens that day, it too is forgotten until another chance meeting three months later. At this point the spark of interest is kindled, and soon their meetings are no longer by chance. As their romance proceeds, it is they themselves who must decide what happens next; coincidence and chance, having brought them together, now must be replaced by conscious action if their adulterous affair is to continue.

For a film of this nature to succeed it must engender interest and rapport in the audience. Good writing and realistic portrayals by DeNiro and Streep for the most part combine to overcome the traps of triteness and cliché, and overall the film does succeed. The apprehensions and insecurities of Molly and Frank are universal to budding

romances, and endears them to anyone who has been there him- or herself.

Unfortunately, the film at times is all too much like a real developing romance, moving at an excruciatingly slow pace. This is especially frustrating since the ending is (unlike real romance) quite predictable.

Directed by Ulv Grosbard, this Marvin Worth production features wonderful cinematography and a pleasing musical score that always contributes to the scene at hand. Central to the success Falling In Love has in conveying its message is the writing and editing. The visual and spoken juxtapositions, plentiful throughout, drive home the fact that in love, as with most things, timing is everything.

Falling In Love is in citywide release, and is playing locally at the Mann 3 at 467 N. Rosemead. Rated PG-13.

Body Shop

Ideas For Insomnia

by Miki Goodwin

Different people require different amounts of sleep to feel rested. Some do not function well unless they have at least nine hours of sleep per night, others may thrive on five hours. Sleep patterns also change with age and may range, for example, from 16-18 hours for a baby to only 4-5 hours for elderly people.

Insomnia does not apply to the amount of sleep but encompasses the symptoms of difficulty falling asleep or waking up during the night and not being able to get back to sleep, thus feeling fatigued during the day

Insomnia is not a disease, it is a symptom of a problem and the best treatment is to overcome the cause. Most common causes of sleeplessness in students include irregular sleep schedules, emotional stress resulting from various crises, daytime naps, use of stimulants such as caffeine or diet pills, and/or chronic use of drugs affecting the central nervous system such as tranquilizers or alcohol. In some rare cases it may be a physical illness that causes sleeplessness.

Often people in this situation resort to sleeping pills or minor tranquilizers in an attempt to cure their insomnia. However, contrary to what many believe, sleeping pills are not a cure. In fact, if taken for a long time sleeping pills have undesirable side effects and may even make insomnia worse. Sleeping pills should be used judiciously for a limited time and only under medical supervision.

Many cases of insomnia, such as stress related sleeplessness, will subside within a few weeks. A few sleepless nights are generally not harmful.

Some methods of self help are listed below. However, if insomnia persists it may be advisable to have a medical consultation about ways of dealing with the cause.

•Review lifestyle patterns, develop a regular as possible sleeping schedule. Avoid daytime naps.

•Avoid stimulants such as caffeine (found in coffee, tea, and soft drinks) and nicotine, particularly before going to

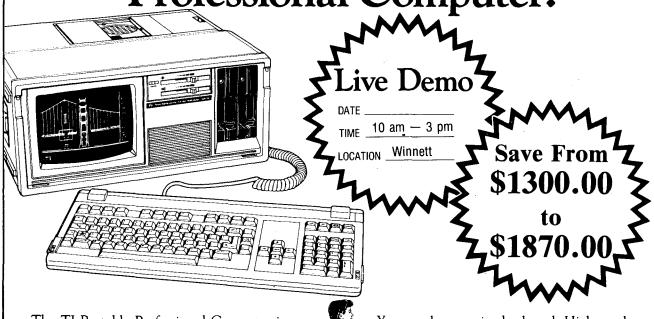
•Avoid alcohol, a leading cause of poor sleep. Although it helps one fall asleep it disrupts sleep continuity and will often cause restless nights.

• Exercise regularly. Vigorous exercise produces greater nighttime relaxation and deeper sleep. However, refrain one or two hours before going to bed.

•Drink a cup or warm milk. There has been some research suggesting that certain ingredients found in milk can have a natural sedative effect.

•If possible adjust environment surroundings so that they are conducive to sleep. Quietness and a comfortable temperature are promoters of restful sleep.





The TI Portable Professional Computer is every bit as powerful as the desktop TI Professional Computer—ideal for college and on into your career. It's identical to it in every way except size: 128K bytes of RAM, expandable to 768K. Five expansion slots. Room for one or two floppy diskette drives. Or move all the way up to a 10 megabyte Winchester hard disk.

You get the superior keyboard. High resolution graphics. Greater expansion flexibility. You gain: In portability. In convenience. You can lock it in your closet when you go out. Take it home on semester break. Take it to the lab if you need to. Or have it all the time right on your desk. You won't find this much power and value anywhere at such an economical price.

We are among the very few selected to participate in this unprecedented Texas Instruments promotion. For a limited time only we can sell TI Portable Professional Computers at unbelievably low prices. Bring your I.D. Offer limited to students, faculty, and staff of this campus.

MEMORY	FLOPPY Drives	COLOR MONITOR		MONOCHROME MONITOR	
SIZE		SUG. RETAIL	SPECIAL PRICE	SUG. RETAIL	SPECIAL PRICE
128K	ONE	\$2,895	\$1,345	\$2,295	\$995
128K	TWO	\$3,295	\$1,495	\$2,695	\$1,175
256K	TWO	\$3,465	\$1,595	\$2,865	\$1,295

Don't wait. Supplies are limited. Offer ends Thurs. Dec., 6th 1984.

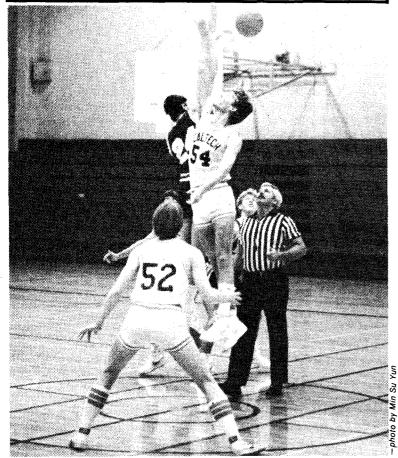
Come in and see them now at



1020 So. Arroyo Parkway • Pasadena, CA • (213) 682-3641



sports ==



Brett Bush jumps for the ball

Score With Santosh

by Santosh Krishnan

2 Weeks Ago: $W-L: 9-\bar{5}$ Against Spread: 7-7Last Week's Record: W-L: 11-3Against Spread: 8-6 Cumulative: W-L: 52-31Against Spread: 40-43

L.A. Raiders (9-4) at Miami

The Raiders have to win this game to stay ahead of New England in the wild-card race. Miami will resort to their characteristic unsportsmanlike conduct and unorthodox field maintenance techniques. The Raiders should be wary of parabolic mikes. Despite Miami's much-vaunted capabilities, the Raider lines will hold firm and return with a win.

Prediction: Raiders by 2 Pittsburgh (7-6) at Houston

Prediction: Steelers by 9 Indianapolis (4-9) at Buffalo

(1-12)Prediction: Indy by 4

Denver (11-2) at Kansas City

The Broncos were robbed of a victory by evil (Seattle plus referees). The Broncos should Seattle influences.

Prediction: Denver by 4 Cincinnati (5-8) at Cleveland

Prediction: Cincy by 2

NFC

New Orleans (6-7) at L.A. Rams (8-5)

A must-win game for the Rams. Eric Dickerson, who is attempting to break O.J. Simpson's single-season rushing record, will be the person to watch. Should be a good game. Prediction: Rams by 5

Tampa Bay (4-9) at Green Bay (5-8)

Green Bay lost to Detroit in a game they should have won. Tampa Bay almost upset the Rams. Still, Green Bay should

Prediction: Green Bay by 2 San Francisco (12-1) at Atlanta (3-10)

Prediction: Frisco by 9 Dallas (8-5) at Philadelphia (5-7-1)

Dallas, the former "America's Team", is struggling in its "Silver Season." Philadelphia lost QB Ron Jaworski for the rest of the season last week. Dallas will win in a crucial game for the wicked Cowboys.

Prediction: Dallas by 5

Interconference N.Y. Giants (8-5) at N.Y. Jets (6-7)

A must-win game for the Giants. The Jets have nothing to lose but pride in this heated New York rivalry. The Giants are the visiting team in Giants stadium.

Prediction: Giants by 4 Chicago (9-4) at San Diego (6-7) [Monday night]

Should be an interesting game to watch. The Chicago defense appeared to overwhelm the Raiders' offensive line. It un-sportsmanlike conduct and should be a good game for defense enthusiasts.

Prediction: Chicago by 6 St. Louis (7-6) at New fans, should be exterminated. England (8-5)

St. Louis snapped a 3-game of the Week]

Chessatech

Jungman Leads Chess Club Tourney

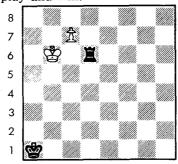
by Doug Dekker

In a crucial third-round en-Gerry Jungman counter, (Ricketts) defeated Tim Parrott of Lloyd to take the lead in the ongoing Caltech Chess Club tournament. This interesting game, with notes, will appear in our next full-length column.

This week we turn from analysis of complete games to consideration of a chess ending. Endgame study is usually neglected by beginning players; to an extent, this is justified, because one's early contests are typically decided in the middlegame (through catastrophic blunders or missed defensive opportunities). But as the level of one's competition increases, knowledge of the endgame becomes more and more important, both to secure deserved victories and to escape disadvantageous positions with

Moreover, to ignore the endgame is to remain ignorant of one of the most beautiful aspects of chess. Despite their limited material, the positions reached are frequently as complex and challenging as those of the middlegame and place equal demands upon a player's creativity, tenacity, and insight.

Consider the following classic ending, whose apparent simplicity conceals profound and subtle ideas. White is to play and win:



abcde f **g** h

losing streak with a 17-16 win over Philadelphia last week. New England lost a close defensive struggle to Dallas. Playing in Foxboro, the Pats should roll.

Prediction: New England by 6 Detroit (4-8-1) at Seattle

Seattle won last week in a classic Seattle fashion-slimy and devious. What Seattle lacks in talent, they make up in a large wallet to decide close games. This rough-hewn and dishonest team, as well as their Prediction: Detroit by 2 [Upset

SKIING!!

OPEN HOUSE IN PASADENA-567 S. LAKE AVE. SKI PROGRAMS TO YOUR FAVORITE AREAS IN THE WEST. WIN A GIFT CERTIFICATE FOR TRAVEL! DOOR PRIZES & REFRESHMENTS! JOIN US FROM 4:30 PM TO 6:30 PM ON WEDNESDAY, DECEMBER 5, (818) 792-1165

Of course, if White can promote his pawn to a queen he will win in all but "trick" positions. Black's rook is in terrible shape: it can't control the pawn's queening square (c8) as both d8 and the c-file are inaccessible. Thus, it places the White king in check and hopes for the best.

1 Kb5!

The only move to preserve winning chances. If 1 Ka5??, Black stops the pawn with 1...Rc6 and wins. If 1 Kb7? (or 1 Ka7?), the reply is 1...Rd7, pinning the pawn; Black will capture it next move and draw. 1 Kc5 looks good at first; however, Black draws with 1...Rd1!, since 2 c8Q is met by 2...Rc1+, and on other moves 2...Rc1 happens anyway. 1...

Of course, this is the only move to prevent an immediate White victory. If 1...Rd2?? 2 c8Q Rb2+, White plays 3 Ka4 Ra2+ 4 Kb3 Rb2+ 5 Kc3 and wins.

2 Kb4! Still the only move! 2 Ka6 (or 2 Ka4) allows 2...Rc5, curtain. White threatens both and 2 Kc6 (or 2 Kc4) induces 7 Ka4x and 7 Rc1++, and 2...Rd1. Finally, after 2 Kb6, there follows 2...Rd6+ (forced), and White has made no progress.

Rd4 +Forced. 3 Kb3

As before. Again, if 3 Kc5, then 3...Rd1!; if 3 Kb5, Black replies 3...Rd5+ and the draw looms. (If you found 3 Kc3 Rd1 4 Kc2!, congratulations; you've reached the posi- overlooked Black's resource on tion below after White's fourth move 4. After broad hints were move.)

Rd3 +4 Kc2!

HAIRCUT \$8.50

Call Lu for appointment 795-1126

> 240 South Lake Ave (mezzanine level) Mon. Tues. Fri. Sat. 10:00 am to 5:00 pm

Knocking Black off the merry-go-round. White can invade the c-file because the chessboard is finite; Black's

drawing idea 4...Rd1 is now met by 5 Kd1x. How many of you saw this far? And do you now see Black's resource?

Rd4!!

Wonderful! If now 5 c8Q?, Black plays 5...Rc4+! forcing 6 Qc4x, and Black is stalemated! And the draw seems inevitable in any case: 5 Kc3 (5 Kb3 Rd3+) Rd1 (forced) 6 Kc2 Rd4! etc. So what can White do?

5 c8R!!

White promotes to a rook! Now 5...Rc4 + ?? is busted by 6 Rc4x, and there's no stalemate. In fact, after 6...Ka2 (forced) 7 Ra4, Black is checkmated.

But isn't the position after 5 c8R a draw? It sure looks like one, but there's a detail present: 6 Ra8++ is threatened! Thus Black's next move is (you guessed it) forced.

Ra4 6 Kb3!

But this brings down the Black is out of tricks. White

Partial solutions to this ending were submitted by Kent Cantwell of Dabney, James Okamoto of Blacker, Eric Wang of Fleming, and Chris Eich, a grad student in Physics. Eich suggested 1 Kc5 as winning, missing the defense 1...Rd1. Cantwell, Okamoto, and Wang got farther, but all supplied by this columnist, Cantwell successfully completed the analysis; the others have not responded as of this writing.

S

Slacks Suits Skirts Shirts

ALTERATIONS RESTYLING **TAILORING** INVISIBLE REWEAVING TEL. (818) 449-8634 DAYS & ÉVENINGS 159 S. Allen Apt. 106 Pasadena

REAL ESTATE OPPORTUNITY OF A LIFETIME! -Studio Condo-

2 Blocks walking distance from campus

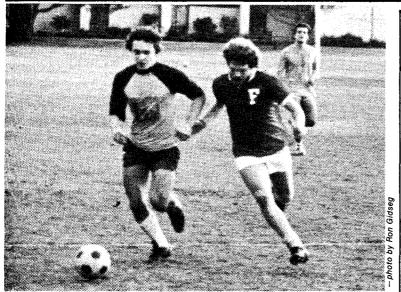
-\$52,500 purchase price.

-0nly \$2,000 to move in.

(Includes downpayment and closing costs.) 1 year TICOR Insurance Co construction warrenty. 11 34 % fixed interest—30 year amortization.

Contact Victor Herrell at 449-5030

sports=



Konstantin Othmer demonstrates The Big Black Machine to Fleming in 1-0 interhouse soccer victory.

MONKS PIZZA FREE DELIVERY 304-9234



HOURS Sun-Thr 11:00-1:00 AM Fri-Sat 11:00-2:00 AM

\$2 OFF ANY MONKS SPECIAL



(1 COUPON PER PIZZA) Expires Dec 31, 1984

\$1 OFF ANY MONKS



304-9234 (Limited Delivery Area)

(1 COUPON PER PIZZA) Expires Dec 31, 1984

LUNCH SPECIAL

2 FREE **PEPSIS**

> WITH ANY MONKS PIZZA

ORDERED BETWEEN 11 AM & 4 PM (Limited Delivery Area) (1 COUPON PER PIZZA) Expires Dec 31, 1984

\$2 OFF

ANY LG. 2 ITEM PIZZA



304-9234 (Limited Delivery Area)

(1 COUPON PER PIZZA) Expires Dec 31, 1984

Weekly Sports Calendar

Intercollegiate

Fri.	DATE 11-30 11-30	TBA	SPORT Basketball (JV) Basketball (Varsity)	OPPONENT Lopota Invitational Lopota Invitational	LOCATION St. Louis, MO St. Louis, MO
Tue. Wed.		•	Basketball (Varsity)	Christ College Harbor 52	Christ College Olympic Ice Arena

G.S.C. Volleyball

Day	Date	Time	Teams	Referees	Court
Mon.	12-3	6:15 pm	Upsetters vs. Six Hitters	Brute Force	West
Mon.	12-3		Brute Force vs. Tammy's Team	Upsetters	West
Mon.	12-3		TAPIR vs. Page	Tammy's Team	West
Mon.	12-3	9:15 pm	Bump 'n' Grind vs. Blockheads	Page	West
Tue.	12-4		Joy of Sets vs. Jet Setters	Fleming	West
Tue.	12-4		Fleming vs. Turing Machine	Joy of Sets	East
Day	Date	Time	Teams	Referees	Court
Tue.	12-4	10:00 pm	Coherent Spikers vs. Rotorheads	Derelicks	East
Day	Date	Time	Teams	Referees	Court
Tue.	12-4	11:00 pm	Cubbies vs. Face	Brains not Braun	West

Beavers End Upbeat In Upset

by Tom Tysinger

The Caltech football team ended their 91st season two Saturdays ago with a stunning upset over the Silverlake Athletic Club. The Beavers, playing in front of a capacity crowd at the Antelope Valley College stadium, thrilled the fans with their explosive offense and unrelenting defense. The first touchdown of the Beavers' 28-0 victory came when Martin Brouillette drove the Silverlake defenders into the endzone. Brouillette, seeing his receivers covered on the

pass-designed play, quickly tucked the ball away and hurdled across the goal line. The next touchdown brought the crowd to its feet when Beaver running back Vincent Riley took the handoff from Brouillette, smashed through the Silverlake line, danced by the linebackers, and streaked past the safeties for a 65-yard touchdown run, the longest Beaver play from scrimmage this year. Riley, having barely recovered from his sensational run, scored the third Caltech touchdown when quarterback Brouillette rifled the ball between three Silverlake defenders, hitting Riley in the corner of the end zone. The Caltech defense stifled the Silverlake offense with tight coverage in the backfield, and plenty of pressure from the defensive ends and the rest of the line. Caltech's final touchdown came when Don Thomas drove across the goal line on a three-yard play.

Although the scoring was complete, the action was not. After a Lee Mallory fumble near the Silverlake end zone, some seemingly not-toofriendly words turned into a brawl in the middle of the field. With the aid of the referees and Coach Parker, the escapade soon ended and football continued. On the final series of the game, the Silverlake Athletic Club had control of the football and were driving towards a touchdown. With time for one more play, and with the ball on the Caltech 35-yard-line, the Silverlake team had but one option-to throw into the end zone. With four receivers streaking down the field, their OB dropped back, looked around, and suddenly fell into the hands of five Caltech linemen, preserving the shutout.

With that sack, the 1984 Caltech football season came to a close, leaving the Beavers with a 5-3 record and their second straight winning season.

One final note-this was the final game for Caltech slotback/running back Larry Sverdrup. Sverdrup, a veteran of seven years and two coaches, plans to end his career with the Raiders.

Attention Students:

Study Program in

ISRAEL

Total Cost: \$450.00 - including round trip airfare to Israel, food, housing and travel.

Winter and Summer 1985 **Departures**

For information Call or Write; Jerusalem Fellowship (213) 556-1451 170 N. Canon Drive, Beverly Hills, CA 90210

= announcements =

Material for the announcement section of the California Tech must be submitted typed on or with the Announcement Form available at the Tech office by the Tuesday before the Friday of publication.

Help Soviet Jews

Promote human rights! Come write a letter on behalf of the Refusnick Khasin family and eat a delicious deli dinner. This Sunday, Dec. 2 at 5:30 pm at the Red Door Cafe. Deli dinner \$3.00. Letter writing materials provided by Hillel.

Attention: Grads

There are plans to create mixed grad-undergrad housing by converting one or possibly two of the smaller Graduate Student Houses for this purpose. Any grad students with ideas along these lines should contact the Master of Student Houses at x6194.

CLASSIFIED

FOR SALE-

FOR SALE: 1981 Plymouth Reliant, 2.2 liter, original owner. excellent condition, 4-door auto., stereo-Cass, \$3500 o.b.o. Campus x6489, or 796-4928.

HELP WANTED-

NEED CASH? Earn \$500+ each school year, part-time (flexible) hours each week placing and filling posters on campus. Serious workers only; we give recommendations. 1-800-243-6679.

TUTOR WANTED: Need instruction on Apple II + statistical software. I do not have computer. Leave message for Tom 796-2247.

WORK YOUR OWN HOURS. Earn extra money. Call Cathy Estrada at (818) 449-3244.

HELP WANTED: Z80 Machine language programming-software and hardware. Contact Joe Vu 794-2411 after 5 PM.

HOUSING—

APARTMENT OFFERED Quiet apt. offered to share in exchange for helping an active paralyzed teacher. 1 block west of Caltech w/ own bedroom and bath. Ideal for person who spends most evenings working at home. Reliable, friendly person sought, prefer grad student, non-smoker. Inquire at 449-8928.

REAL ESTATE opportunity. Studio condo 2 blocks from campus, only \$2000 cash to move in. Contact Victor Herrell 449-5030. See ad on page 6 for details.

GENERAL—

IS IT TRUE you can buy jeeps for \$44 through the U.S. government? Get the facts today! Call 1-312-742-1142 Ext. 9718-A.

INSURANCE WAR! Will beat anv price, or don't want your business! Sports cars, multitickets, good driver disc. Request "Caltech Plan." (213) or (818) 880-4407/4361

Christmas Tea

All undergraduates are cor-Christmas Tea on Thursday, December 6 between 2:00 and 4:00 p.m. in the Master's Office. Come and get an early start on your Christmas calories.

Open House

All students and faculty are invited to a Holiday Open House sponsored by the Alumni Association. The place is the Alumni House, 345 South Hill and the time is 5:00-8:00 pm on Thursday, December 6. Refreshments will be served. Come one, come all!

Salvador Refugees

Refugees from El Salvador dially invited to the Master's will describe their experiences, and there will be folk singing and a showing of the film Roses in December at a special program on Tuesday, December 4, at 7:00 pm at the Newman Center, SW corner of Hill and Green Streets.

Elementary Greek

Professor Mac Pigman will offer Elementary Ancient Greek winter and spring quarter. Anyone who would like to take the course should contact him in room 203 Dabney Hall or on extension 3601.

OVERSEAS EMPLOYMENT

WORLD-SIDE OPPORTUNITIES FOR MEN AND WOMEN! JAPAN - EUROPE - AFRICA - AUSTRALIA - THE SOUTH PACIFIC - SOUTH AMERICA - THE FAR EAST.

EXCELLENT BENEFITS. HIGHER SALARIES AND WAGES! FREE TRANSPORTATION! GENEROUS VACATIONS!

More than 300,000 Americans - not including members of the armed services — are now living overseas. These people are engaged in nearly everypossible activity...construction, engineering, sales, transportation, secretarial work, accounting, manufacturing, oil refining, teaching, nursing, government, etc.-etc. And many are earning \$2,000 to \$5,000 per month...or more!

To allow you the opportunity to apply for overseas employment, we have researched and compiled a new and exciting directory on overseas employment. Here is just a sample of what our International Employment Directory covers.

(1). Our International Employment Directory lists dozens of cruise ship companies, both on the east and west coast. You will be told what type of positions the cruise ship companies hire, such as deck hands, restaurant help, cooks, bartenders, just to name a few. You will also receive several Employment Application Forms that you may send directly to the companies you would like to work for.

(2). Firms and organizations employing all types of personnel in Australia.

131 Elma Dr. Dept. T21

Centralia, WA 98531

Directory.

NAME___

CITY....

ADDRESS

International Employment Directory

ORDER FORM

Please send me a copy of your International Employment

Directory. I understand that I may use this information for 90

days and if I am not satisfied with the results, I may return your Directory for an immediate refund. On that basis I'm

enclosing \$20.00 cash.... check.... or money order.... for your

please print

STATE

International Employment Directory 1984

APT #

_ZIP

Japan, Africa, The South Pacific, The Far East, South America...nearly every part of the free world!

(3). Companies and Government agencies employing personnel in nearly every occupation, from the unskilled laborer to the college trained professional man or woman.

(4). Firms and organizations engaged in foreign construction projects, manufacturing, mining, oil refining, engineering, sales, services. teaching, etc., etc.

(5). How and where to apply for overseas Government jobs.

(6). Information about summer jobs.

(7). You will receive our Employment Opportunity Digest...jam-packed with information about current job opportunities. Special sections features news of overseas construction projects, executive positions and teaching opportunities.

90 Day Money **Back Guarantee**

Our International Employment Directory is sent to you with this guarantee. If for any reason you do not obtain overseas employment or you are not satisfied with the job offers...simply return our Directory within 90 days and we'll refund your money promptly...no questions asked.

Co-Ed Triples

The Caltech Men's Volleyball Club is pleased to announce yet another installment of its ever-popular series of coed triples volleyball tournaments. The tournament will be held this Sunday, December 2nd, at the Caltech gym, with the festivities starting at the ungodly hour of 8 am. Men, women, grads, undergrads, faculty, staff, and players of all abilities are invited. Teams will be formed the day of the tournament, and prizes will be awarded to the first and second place teams. Call Chad at JPL extension 4253 to reserve your spot, or just show up Sunday morning. See you there!

Going Home? How?

If you are planning to go home for Christmas, and are in need of rides to either the Huntington or Hilton to catch the Airport Bus to LAX, please contact The Caltech Y office as soon as possible to enable Julie, Huston and Nancy to coordinate transportation schedules. Thank you!

Jobs

The Caltech Space Radiation Laboratory needs several students for computer programming jobs now. Apply now and avoid the spring crunch for summer jobs. Please check our listing with the Placement Ser-

Attn: Grad Women

The Soroptomist International of Los Angeles is offering its annual fellowship to an outstanding woman graduate student. This student must be a citizen of the United States, a resident of California, and enrolled at an accredited institution of higher education in Southern California. For further information please contact: Career Development, 8-31, x6361.

Steps to the Stars

Mankind may move into the solar system and then on to interstellar colonization. This will be the emphasis of a lecture entitled "Steps to the Stars" to be given by Eric Burgess on Saturday, December 8, at 7:00 pm at JPL's Von Karman Auditorium. The lecture is free and the public is invited. For more information, call (213) 374-1381.

Break Out

Tired of worrying about finals? Get down at Winnett Center, tonight at 8:00, for some fast-paced DANCING action. Special guests from offcampus will offer a change of pace to ease you off your feet. Free admission, food, and drinks! Sponsored by the Ruddock Frosh. Funded by ASCIT and the MOSH.

Gleeful Singing

The Men's and Women's Glee Clubs join with an instrumental ensemble and Chamber Singers to celebrate both Christmas and Hannukkah in a new holiday show, "A Star for Each, A Celebration of Miracles." Performances are scheduled for Friday, Nov. 30 and Saturday, Dec. 1 at 8:00 p.m., and Sunday, Dec. 2 at 4:00 p.m. in Beckman Auditorium.

Tickets may be purchased at the Caltech Ticket Office. For more information, call campus extension 4652.

Undergrad Women

The Women's Group will be going out to dinner, Saturday Dec. 1 at 5:00 pm. All undergraduate women are invited to come and dine out together, for an evening of conversation and female company. Bring your own money and meet at the Fleming Cannon at 5:00 on Sat. afternoon.

Anyone with any questions should call Felice at x6171. I hope to see you all there. Where we go depends upon who shows up.

Free Money (Really)

The Student Investment Fund has \$4,000 to disburse this year to campus clubs and organizations. For more information or for application forms contact Mark Adams or Mike Curtin at x6182.

OWC Winter Party

The Organization for Women at Caltech presents a Winter Holiday Party on Thursday, December 6 from 4:30 to 7 pm in Winnett Center. Enjoy good food, good drink, good people and sing carols with the Women's Glee Club. Open to all. No admission fee, but everyone is encouraged to bring some contribution to the feast of food. RSVP appreciated, along with an indication of what you can bring. Contact OWC, 104-6.

Caltech 107-51

PASADENA, CALIFORNIA 91125

The California Tech is published weekly except during examination and vacation periods by the Associated Students of the California Institute of Technology, Inc., Winnett Center, Caltech (107-51), Pasadena, California 91125.