

"Fickt nicht mit"

# THE CALIFORNIA TECH

VOLUME LXXXVII NUMBER 4

PASADENA, CALIFORNIA

FRIDAY 18 OCTOBER 1985

A) Grumpy Bear.  
B) der Raketenmenschen.  
C) the Prince of Peace.

## d Day Add Day Add Day A

### Watson Time! Deanne Noda

by B. J. Warr

Each year the Watson Foundation awards around seventy fellowships to seniors chosen from fifty small colleges (including Caltech). The remuneration of \$10,000 (current) for a single student or \$14,000 for a married couple assists in travel and study for twelve months *outside* the United States. Last Monday, the Dean of Undergraduate Students, Gary Lorden, and the Associate Dean, Jeanne Noda, were accompanied by 1984 Watson winner Don Fossgreen to answer questions on the nature of the Award.

Applicants should ideally have had a long standing fascination with a certain project, which may or may not be related to the students' work at school. A key question asked in an interview is, "If we give you the Award, will you take it?" The point is that the

project should be so personally important that one would happily defer entry to employment or Graduate School.

Due this Monday, October 21st, is a written project proposal, of around two-and-a-half pages in length, to be handed in at the Dean's Office. This submission need not be in its final form. There is a final deadline of November 25 for the proposal, and also a personal statement of comparable length, with interviews in February.

The important things to exhibit in these statements are enthusiasm, and the specialness and relevance of one's proposal to one's whole life. The statements should be lively and interesting to read, and, crucially, the proposal should be flexible enough to respond to unexpected changes. In a fundamental sense the award is given to the person and not the specific proposal.

## Surf's Up

Saturday, October 19 is SURF Day at Caltech. During the past summer, 126 Caltech undergraduates spent their summer vacations SURFing in Pasadena; Columbus, Ohio; Cape Town, South Africa; and Geneva, Switzerland. These students are part of the Summer Undergraduate Research Fellowships (SURF) program, and they will present seminars about their research projects on SURF Day.

The talks, which are open to the public, will take place in classrooms in Dabney Hall, Baxter Hall, Spalding Laboratory, and Thomas Laboratory on the Caltech campus between 1:30 and 4:30 pm. A complete schedule will be

continued on page 2

## Social Notes

by Sam Wang

Welcome back, everyone! In case you haven't heard, the annual Caltech-JPL Disneyland trip is Sunday, October 20, from 9 a.m. to 9 p.m. Signups have come down, but there are still some tickets available. Call me at x3691 for yours! Prices are a reasonable \$9 each for ASCIT members, \$3 extra if you want to ride the bus. The bus leaves from the Ath parking lot at 10 a.m. and leaves the Land at 9 p.m. But if you haven't signed up yet, hurry; tickets are limited. Those of you who have already signed up can pay and pick up your tickets from your house social team or from me in 220 Ruddock.

This term the ESC is throwing a seven-house party on December 7. It's on Pearl Harbor Day, a great day to get bombed! If you want to get involved in planning it, contact me or your house social team; this is your big chance to get involved in planning a party for over 800 people!

## Tech Editor Elections

by Bucky

Hi guys! Well, sorry I flaked out on y'all, but I kinda got sick of this place. So's youse gotta elect a new editor or something or other. And, like, they kinda want you to do it on Monday or something like that. So, like, you ASCIT type (members, that is) out there can go find these really way ballot boxes in yer houses. And there's these statements or summin' on page three or so. So, it's like, *Party!*, dudes, and, like, elect the right people.

Oh yeah. Hi mom!

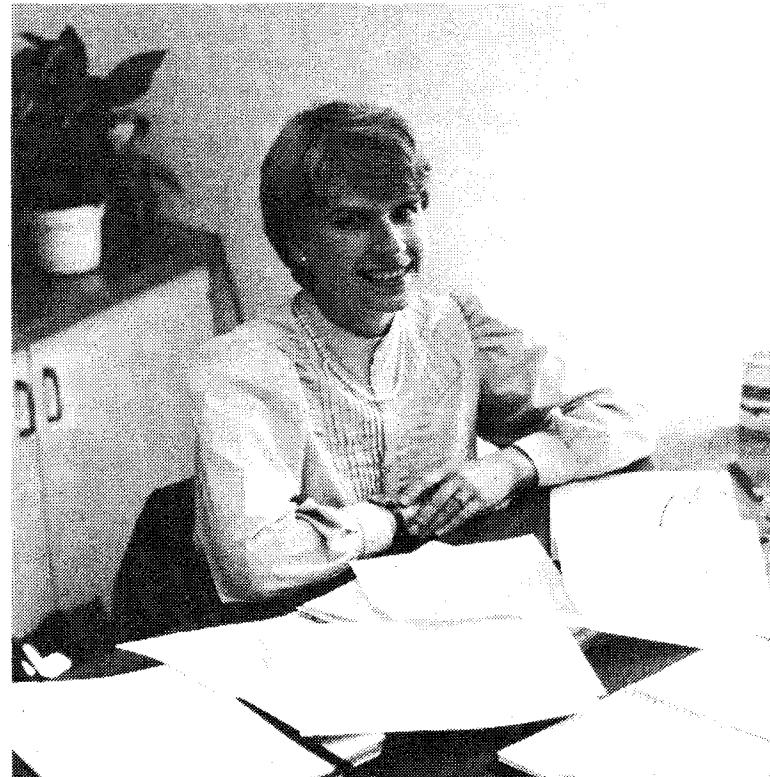
by Diana Foss

If you were at Frosh Camp, you've probably already met her. If not, then you should know that Caltech has a new Associate Dean, and that her name is Jeanne Noda.

The position of Associate Dean was traditionally held by a member of the faculty; Noda's appointment represents the first time Caltech has chosen a professional to fill the spot. She comes to Tech from the University of Illinois at Chicago, where for the past three years she was the director of the Master of Business Administration program. Before that she was the assistant Dean of the Business School at Washington University in St. Louis. Prior to her work in college administration, she was a social worker, specializing in outpatient therapy.

Becoming Caltech's assistant Dean wasn't something that Noda was really planning. Last spring, she and her husband decided to accept a transfer that moved his job from Illinois to Southern California. In April, she read an ad in the *Chronicle of Higher Education* that announced the position. Noda applied solely through the ad, which warned applicants to "be prepared for unusual hours," and went through a series of interviews once she and her family relocated here in July.

One of the more telling interviews was with the members of the IHC. They asked why she would be willing to go from a position where she was the head of a large department, to a rather "outlying" position where she is subordinate to the Dean of Students. Her response is that she has a "gut feeling" that Caltech is the right place for her, "an extraordinary place." She was impressed with how much



-photo by Chris Neis!

the people here care for students, and that the faculty don't look at their administrative duties as unavoidable drudgeries. Caltech's small size was also a plus in her eyes; University of Illinois' student population is 28,000, and Washington University's, which she considered small, is 12,000.

Jeanne Noda's goals as Associate Dean include, first and foremost, understanding the place that is Caltech. She feels comfortable with the new students, having talked to all of them at Camp, but she has yet to become involved with most of the upperclass students. She also sees as necessary the creation of the position of Student Advocate, to provide a

mediator between the students and the administration. Noda sees the students as vital to the Institute, but thinks that too often the students are unaware of their importance and power. She is impressed with the good ideas that she has heard from students she had talked to, and wants them to speak up and get noticed.

The main problem that Noda sees with student life at Caltech is that too often students get caught up in inter-house aggression. She wants students to leave here feeling as though they belong to Caltech as a whole, and not just to a particular house. All Jeanne Noda really wants is for students to have fun.

## Genius Director

### To Speak

by Diana Foss

Remember how much you loved *Real Genius*? Remember how you marvelled at how anyone could cram so much Caltech detail into a single film? Remember how sick you are of my writing about it? Well, here's your chance to hear someone who really knows something about the film!

Martha Coolidge, director of *Valley Girl* as well as your favorite film, will speak in Winnett Lounge on Tuesday 22 October on her career as a director, as well as what it's like to be "a woman breaking into a man's field". Bring yourself and your lunch, and get your friends to tell you what you missed on *Days of Our Lives*.

## Radio Active

by David B. Ritchie

This Saturday, October 19 from 9 am to 4 pm, the Caltech Amateur Radio Club will have an open house to show off its newly renovated radio shack, brand new radios, and to introduce everyone who shows up to the wonderful world of amateur radio. The open house will be located in the club's "shack" on the second floor of Winnett Student Center, next to the Red Door Cafe, and, in conjunction with the Southern California DX Club and Tektronix, Inc., a special hi-tech transmitter tune-up clinic will be set up in Clubroom I next door. Any Southern California amateurs wishing to have their transmitters checked out with the most advanced Tektronix spectrum analysers available should bring them by. Refreshments and skilled repairmen will be provided.

This open house represents the culmination of a five-year effort to completely renovate the Radio Club. All equipment is now state of the art, the shack has been repainted, carpeted and made into a very comfortable place to operate the club's radios from. The club has equipment to operate on all short wave amateur frequencies as well as many bands in the VHF, UHF and microwave regions of the spectrum.

The Radio Club was founded in 1918, just after the ban on amateur radio was lifted after World War I. Since that time the Radio Club has been a going concern devoted to training members of the Caltech community to be skilled radio operators and teaching them skills in radio frequency electronics. The club is committed to providing emergency communications as necessary. The Radio Club helped dozens of people make contact with relatives and friends within the stricken areas of Mexico during the recent communications blackout in continued on page 3

**LETTERS**

To the Editor:

I would like to cordially disagree with the sentiments expressed [California Tech, Oct. 4] by Mr. Warr. Throughout his letter, he treats the Honor Code as if it were a dictatorial system of rules Caltech tries to instill. Nothing could be further from the truth of the spirit and practice of the system.

The Caltech community is a unique collection of rather intelligent and individualistic people. Many of us have been "loners" by virtue of our academic position, and it is pleasant to be able to join groups as an equal, rather than be aloof at the top. I believe this to be the cause of "house spirit". The "herd mentality" which causes people to join groups as faceless inferiors is, if present at Caltech, a rare exception quite outside my experience.

The Honor Code is simply a formalized statement of how a group of strong-willed individuals such as the Caltech community can live with itself. It is quite true that most of us have always avoided taking "unfair advantage" on principle; I see no harm in formalizing what we already live by. The system is not coercive, the Board of Control not being a force which is present in our daily lives. Yet the Board of Control is a beneficial influence in that if we feel wronged by someone, we have a civilized institution to address the issue. The lack of such formalized institutions as the BOC leads to an anarchy that looks pleasant in theory, but leads to increasingly brutal retaliation for wrongs in reality.

While I share Mr. Warr's distaste for certain political groups on campus, the institutions of Caltech neither help nor hinder their formation. Persons of like persuasion tend to congregate, and if you find the stormtroopers obnoxious, I can only suggest that you congregate with persons of like persuasion to yourself.

Lastly, if "growing up" is a one-step process, leading discontinuously from childhood to adulthood, then colleg is not the place to make that jump. I do not believe that people mature in this fashion. Instead, a person continues to grow and learn from their experiences throughout their lives, as long as they retain open minds. People come to Caltech in various stages of this process, and it is unforgivably stupid to ignore the maturing experiences which are

available during your time here, for learning from them can make you a better person. If treating people with fairness, dignity, and respect is a lesson you have yet to learn, perhaps experience with the Honor Code can help. If you have already made "all the relevant decisions" on how to lead your life, you must be dead. May you rest in peace.

—Jeff Greason, 1-59  
Sophomore, EE

To the Editor:

As a parent of the one "casualty" of the Caltech Y backpack trip, I would like to thank the fellow hikers who were in Tom's group. Without the runners notifying the airlift and the remaining hikers administering life-savin first aid, the trauma could have been a tragedy. Thanks also to the staff at the Caltech Y for its continued support and concern.

—Mary Bewley  
Eatonville, Washington

To the Editor:

We would like to take this opportunity to express our gratitude to the housing office. Nancy, Paul, Elsa, and their respective staffs have been most helpful in the endeavor of getting our off-campus house into shape. We found them extremely cooperative and attentive to our needs. We believe that the students of Caltech are fortunate to have such an effective and professional group ready to work with them. All students need to do is ask.

—Steve Lalli  
Nick Kledzik  
Taylor Lawrence  
Steve Winters

To the Editor:

They say imitation is the sincerest form of flattery, but I'm not impressed. I think it is OK that the Tech lets its writers use *noms-de-plume*, but it isn't so cool when they use my name for an article on something so trivial and non-newsworthy a subject as the Page vs. Fleming Gumbobulus change. Who cares? (I do appreciate renaming the Discobolus after me though. I'm honored.) The point is *"TM GUMBY, DAMMIT"* and if you do it again I'll have tenderize ya. Pokey and the rest of my friends'll be watching.

—Gumby  
Blacker or Dabney (depending)  
P.S. I hope the Flems won.

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**The Inside World**

**Lloyd:** The week started off with a little fun and excitement. We went and partied with the Flems Monday night; they had so much fun they followed us home. A rather brisk warm-up for Wednesday's exercises, you might say. Way to be, Big Red!

Frosh elections got a bit out of hand, as our new Frankenstein's monster attempted to shower everyone but Isaac. Wiser heads prevailed, however, and by 1:00 the frosh wave had been beaten back.

Frosh barbecue Saturday night!

—J. P.

**Ricketts:** *Bienvenidos! No me gusto champagnones! Servicio de camarista.* First there was rotation, then there was frosh wash, then Diana became Tech editor, and then I was forced to write the Inside World a whole day early so I could turn it in late. Buckaroooooo is now a Marksist and talks to homeless fish. [*What's Up?*—*Lingering Aftertaste*] Jed went to the Red Door Café for his first time Wednesday night.

Why are there so many stupid ball games pre-empting *Days of Our Lives*? Is Theo going to die or what? [*This entry was written on Wednesday—Ed.*] What does Mrs. H put in her donuts, anyway? Will our television be fixed in time to answer these and other stirring questions—I don't know.

Peter/Pete sang nursery rhymes on helium at the thrilling 290 cocktail party. People had to enter through the thin friends' door. Liver Colonies wears a wig and Jonoto has turned sinister.

Don't forget to dress nicely for tonite's extra added bonus Dress Dinner, and remember—a day without *Slurpies* is like a live crab up your nose.

—Saxy

**Ruddock:** Life goes on in the big Bud. A hearty welcome was extended to 37 frosh and four transfers, complete with lots of water. Hassle Week went as expected—the wimpy freshmen failed in discovering the identity of the pledgemaster and succeeded in being washed by the ugly sophomores. After several days of carrying around rocks and being showered at will, the frosh wised up and sought the help of the seniors. The seniors cleaned up—Bungo "Nathan" and ya Paul-key got a six of Swiss Lowy each for doing *nothing*.

By Friday, everyone was convinced that Mike Warren was the pledgemaster, but noooooo, Huevos was too swift for all but the seniors, who knew all along that the pledgemaster was none other than Lloyd "Sucks" "Is he a Rudd?" Cha.

On the political front, subversive elements were swept out of office in a startling shakeup of the power structure. Many puppet figures were installed. Comptroller: Eddie Yin Halen. Librarian: Janice Peters. UCC of Alley 4: Taney. UCC of Alley 5: Wang-man. Of course, no one has been showered yet because the house is too wimpy to do it.

The Suicide Bridge picnic was a success! Thanks to the social team. Coming up: party 'til you drop tomorrow in the lounge, starting at (when else?) 8:09. Frosh, start mobilizing for cleanup! But wake up early, because Sunday is...the GAAC! Gentlemen, start your potatoes!

Chicken...

—Wang-man

**Salem:** No entry due to pre-emptuous baseball games.

**Surf's Up!**

from page 1

an audience consisting of the members of the Caltech community, parents, friends of SURF, and the public.

The 1985 SURFers researched topics ranging from the beginning design of an interstellar spacecraft mission, to the physics of blowing sand, to the behavior of alligators.

For further information, contact Carolyn Merkel at x4285.

SPÄR	SAFARI	SEASIDE	SEASIDE
ERTOID	FECHI, DAMMIT!	Diana "Red" Foss	
LINGERING	AFTERTASTE	Matt "I'm Just On Leave" Rowe	
FEATURES	ERTOID	Peter "Pumpkin" Alfke	
ENTERTAINMENT	ERTOID	John "Hap" Fourkas	
PHOTO	ERTOID	Chris Meisl	
SPORTS	ERTOID	Michael " " Keating	
EARS	ERTOID	Owen "The Penguin" Bukaru	
THE WHOLE SICK CREW	Peter Alfke • Bruno		
TYLIS CHANG	Tylis Chang • Diana Foss		
DEREK LUNGBAG	Derek Lungbag • Doug Roberts		
STEVE SALYARDS	Steve Salyards • Brian J. Warr		
PHOTOGRAPHERS	Ron Gidseg • Olivier Goldberg		
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SING UNG WONG	Sing Ung Wong • Min Su Yun		
THE INSIDE WORLD	Blacker: Jim Bell		
DABNEY	Dabney: Fleming:		
LLOYD	Lloyd: Nicole Vogt		
PAGE	Page:		
RICKETTS	Ricketts: Saxy Workman		
RUDDOCK	Ruddock: Sam Wang		
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CIRCULATION MANAGER	Paul Gillespie		
PRODUCTION	Nick Smith		
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# Special Elections!

A special election to fill the position of Editor of The California Tech, so rudely vacated by Matt Rowe, will be held all day Monday 21 October. There will be ballots and ballot boxes in all house lounges and in Winnett Lounge. You may vote for one of the teams whose statements follow, or for No. If a runoff election turns out to be necessary, it will be held Friday 25 October.

Peter Ashcroft  
Paul Gillespie

We feel that the office of Editor for this newspaper is an extremely important job which, if performed correctly, will require hard work, dedication, and a lot of imagination. We feel that working as a team we have the potential to put together a consistently good newspaper and provide the Caltech community with journalism that it will find both interesting and informative. Both of us have been involved with a wide variety of activities on campus and represent a very diverse cross section of the student body, including both the north and south houses. We are both seniors and are quite aware of the responsibility which this office entails. We feel, however, that with our best efforts we can both

generate enthusiasm for our school newspaper and deliver quality journalism to all of you.

Jens Peter Alfke

Tylis Chang

Diana Foss

John Fourkas

Since three of us comprise most of the newspaper staff, we are very experienced in putting out *The California Tech*, the very newspaper you are now reading, each and every week. Together with our new recruit, Tylis, we hope to continue putting out a great paper. We've been instrumental in creating substantial improvements in both the look and content of the *Tech*, and we plan to continue in-depth coverage of campus events (there are a lot of changes in the works that we will report on), quality entertainment reviews, massive sports coverage, and of course *Bloom County*.

We're proud of the *Tech*, and we hope you will give us the opportunity to continue to put out a fine newspaper.

Thank You!

Tim Allen  
Tom Tucker  
[No statement received.]

## Radio Club

from page 1

Mexico. The club station, W6UE, is recognized by the City of Pasadena as an emergency communication station and was recently contacted by the City to provide emergency communications as needed to the City's relief efforts on behalf of its sister city of Ciudad Guzman in Mexico.

The club has over 80 members and is always prepared to welcome new members with an interest in radio, be it listening or transmitting, and the club offers classes to help would-be hams get their licenses.

Regular club meetings are scheduled the 1st, 3rd and 5th Tuesdays of each month at 8 pm and are held in the Y Lounge. Code and theory classes and help sessions are held on all other Tuesdays at 8 pm in the shack or nearby. People who cannot make the meetings should call the club secretary to schedule classes at their convenience. Further information about the club may be obtained from Dave Hodge, the club president, at x6825 or from Dave Ritchie, the club secretary, at (818) 449-7371. Membership is open to all members of the Caltech community, including undergraduates, graduate students, staff, faculty, alumni, jpl-ers, and hangers-on. Anyone interested is encouraged to get in touch with Dave Ritchie—demonstrations and tours can be arranged at any time.

## ENTERTAINMENT

# Rick Wakeman

by John Fourkas

*Rick Wakeman*

Keystone Theatre

Palo Alto

September 14

Concerts at nightclubs can be a lot of fun. The place is usually small, so the seats are generally very good. The sound doesn't have to be turned up past the point of clarity, and the band is in good contact with the audience. There is usually some "required" number of drinks to buy, but this limit is rarely enforced (it is rather hard to keep track of these things in a big crowd, after all). Well, all of this is simply theoretical. In practice, things don't always work out so well. Take the Keystone Theatre in Palo Alto, for example...

I got to this particular concert a couple of hours early, and so I was behind less than ten people in line. This entitled me to a front row seat. Here comes catch number one—the club had rows of tiny round tables going parallel to the stage, with four chairs around each. This meant, of course, that two people in each group of four had to either face away from the stage or not use the table. To make matters worse, the bouncer kept coming by and shoving everybody together to make room for the cocktail waitress.

This all occurred at eight o'clock, and the concert was due to begin at nine. Although no warmup band had been advertised, we were informed by the bouncer that a local band called Domino Theory would play for thirty minutes. We took advantage of our free time to survey the theatre. There was a dance floor about twenty feet in front of the stage, and it quickly became apparent that our "front row" seats were no great bargain. Sure enough, as the tables filled, wayward souls clogged the dance floor in front of us. Luckily, the tables were all on a raised platform, so the view wasn't too bad. Our scrutiny shifted to the acoustic design of the club. The building is long and narrow, with a high arched ceiling. It was quite a bit like an aircraft hangar, as a matter of fact—a fine environment for good sound. Of course, the ceiling held no acoustical tiles, only cheap black paint. The stage was set for a fine evening.

By nine fifteen, the crowd was a little bit restless. How late was the concert going to last if the first band hadn't even come out yet? By nine thirty, people began to cheer

every time a song ended in the canned music they played. By nine forty-five, the lights had gone out, and Domino Theory was about to play. By ten, the crowd was sick of them. I must say that this was the most lifeless band I have ever seen. The drummer wore headphones, closed his eyes, hung his mouth open, and pounded away oblivious to the world. The guitarist looked bored with the whole event—but then again, the only discernible sound was the drums anyway. The only musician with any animation at all was the bassist/vocalist. His vocals were utterly muddled and he had to single-handedly try to paddle his band out of the swamp. The current was against him, however—the acoustics were horrible, the band clearly didn't have a sound man, and the crowd wasn't there to hear a second-rate pop band playing poor dance music. It was a bad scene all around. When Rick Wakeman came on, however, all was forgiven.

Rick Wakeman started his musical career at an early age as a concert pianist, and he won many awards. When he began attending the Royal College of Music, however, he realized that he couldn't compete with the biggest and brightest in the classical business. As a result of this, he began doing some studio work for rock bands, which gave him some of the freedom he was searching for. His most notable studio work in this era (1969-71) includes David Bowie's *Space Oddity*, Lou Reed's first solo album, and the incredible piano solo in Cat Stevens' "Morning Has Broken." During this time he also happened to do some studio work for the Strawbs, a king of electrified folk band. They liked Wakeman so much that they invited him to join, and all of a sudden both Wakeman and the Strawbs were big news on the music scene. Wakeman had an aversion to folk music, however, and was never too happy with the band. Thus, when Yes asked him to join them in 1972, he decided to take the chance. It was with Yes that Wakeman first gained a large following. At almost the same time, he signed a solo contract with A&M Records, and in 1973 he released his first solo album, *The Six Wives of King Henry VIII*. Since that time, Wakeman has left Yes twice (and permanently), and has put out many solo albums. His last album with A&M was *Rhapsodies*, which was released in 1979. Since then, he has done work for an English label, and his newer records are hard to find in America. His newest album, *Silent Night*, was released earlier this year in England, and has recently been released in this country. Thus, for the first time in six years, Rick Wakeman toured the United States.

When Rick Wakeman's band first appeared on stage, the overwhelming impression I got was that these people had been around for a long time. Wakeman, at 36, could well have been the youngest member of the band. I wondered if this was some last ditch effort to attain fame, but this worry was quickly and easily dispelled. The moment they began playing, it was clear that these men were pros and that they meant business. Let's face it—they were good.

The second overwhelming impression I got was that of continued on page 4

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## ENTERTAINMENT

## Journey to the Center of the Earth

## BUCKAROO REVIEWS

A HIGHLY IRREGULAR COLUMN BY MATT ROWE

**Mr. Palomar**

**Italo Calvino**  
**Translated by William Weaver**  
**Harcourt Brace Jovanovich**  
**Hardcover, \$12.95**

Italo Calvino's first work of fiction since 1979's acclaimed *If on a winter's night a traveler* at first seems a retreat from the literary extravagances of that work. Where in the earlier book we found the opening chapters of not one but ten novels—spy stories, metaphysical meanderings, and steamy tales of passion—couched between episodes of the Reader's search for the "true" novel, in *Mr. Palomar* we find only the small-scale explorations of Mr. Palomar, "a nervous man who lives in a frenzied and congested world." It should come as no surprise to Mr. Calvino's readers that, on closer observation, *Mr. Palomar* is as full of passion and profundity as any of his previous works.

Mr. Palomar (who does, indeed, take his name from our very own observatory) is an observer. He has only just discovered his vocation, though, as the book opens, and is still unsure just how to go about observing.

In the second episode (of twenty-seven), "The Naked Bosom," Mr. Palomar, walking along the beach, notices a woman sunbathing topless, and deliberately overlooks her. He reflects on his action and decides it represents a reinforcement of an outmoded conservatism. Walking past her a second time, he takes in the view of the woman's breasts as he would any other part of the landscape. But perhaps this signals a sense of male superiority. On a third pass, Mr. Palomar decides to appreciate the bared bosom as an object worth special consideration, in proportion to the pleasantness of the view. But no, thinks Mr. Palomar after trying that out—not only is this a pleasant sight—it is a woman's breast! On his fourth pass, in recognition of the relaxation of morals in modern times, in order to exercise a freedom once unavailable, Mr. Palomar resolves to concentrate on the bosom and all but ignore the surrounding view.

"But the moment he approaches again," Mr. Calvino writes, "she suddenly springs up, covers herself with an impatient huff, and goes off, shrugging in irritation, as if she were avoiding the tiresome insistence of a satyr."

"The dead weight of an intolerant tradition prevents anyone's properly understanding the most enlightened intentions, Palomar bitterly concludes."

continued on page 5

THE FOREIGN SERVICE OF THE UNITED STATES

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**Department of Commerce**  
**U.S. Information Agency**

Compete to become a Foreign Service Officer

Applications are now being accepted for the Foreign Service Written Examination, which will be held on December 7, 1985. They must reach the Educational Testing Service in Princeton, New Jersey, by October 25, 1985.

Obtain the official application booklet at your administrative/placement office on campus, or telephone (703) 235-9369 for a copy.

A Foreign Service career is much more than just a job; it is a way of life requiring commitment, self-discipline, and sacrifice. However, the opportunity for personal growth and satisfaction, as well as the possibility of influencing the course of history, could be yours.

Take the FSO examination on December 7.

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from page 3

Wakeman's magnificent stage presence. He is a classic jolly Englishman, telling jokes and keeping the crowd happy throughout his performance. He had keyboards set up at both ends of the stage, and would switch sides often (sometimes in the middle of a song, even). At one point he even danced with his vocalist in his version of a Ginger Rogers/Fred Astaire routine. Wakeman is truly a life-of-the-party type of person, and his personality made this concert one of the most fun I've ever attended.

The music was divided almost evenly between material from his new album and material from his first three (*The Six Wives of King Henry VIII*, *The Myths and Legends of King Arthur and the Knights of the Round Table*, and *Journey to the Center of the Earth*).

It is interesting that he totally ignored a full nine albums' worth of material, although it has always been obvious that *King Henry* is his favorite album. It was also clear that he enjoyed the old material far more than the new. Although the new music was fine, it lacked the imagination, depth, and feeling of the early pieces. The crowd and the band thought the same thing. In fact, the only person who may not have concurred with this was the vocalist, who had no instrument to play. Through much of the older music he was relegated to playing a few percussion instruments. In fact, for most of the concert he seemed to be searching for an instrument to play—he spent most of his vocals making nightclub-style gesticulations having little to do with what he was singing. His vocals were fine, it's just that we all felt a bit sorry for him for not having anything else to do. He's in

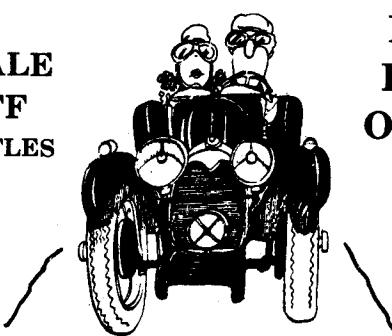
good company, at any rate—Phil Collins often gives me the same impression.

For his encore, Wakeman donned one of his gaudy old capes and slipped into true form for a twenty minute synopsis of *Journey to the Center of the Earth*, sans orchestra or choir. He obviously really enjoyed playing this, and the crowd roared with approval. Perhaps this energy came from the fact that this was his last concert in America, but somehow I doubt this. Wakeman is a fine performer and a fantastic musician, and American audiences have ignored him for too long. Perhaps his latest solo effort will bring him back into vogue. On the other hand, I wouldn't mind it if I could keep on seeing him in such tiny places (albeit with better acoustics). At any rate, it's good to see that such a brilliant showman and artist is still alive and kicking strongly.

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## ENTERTAINMENT

# Life's little Necessities

**Amen Corner:** An award-winning musical starring the Cambridge Players (including Esther Rolle, Taurean Blacque, and Hal Williams). Beckman Auditorium. Fri. Oct. 18, Sat. Oct. 19, 8:00 pm. \$15.50-\$13.00-\$10.50 faculty and staff, \$8.75-\$7.50-\$6.75 with student I.D., \$5.00 rush.

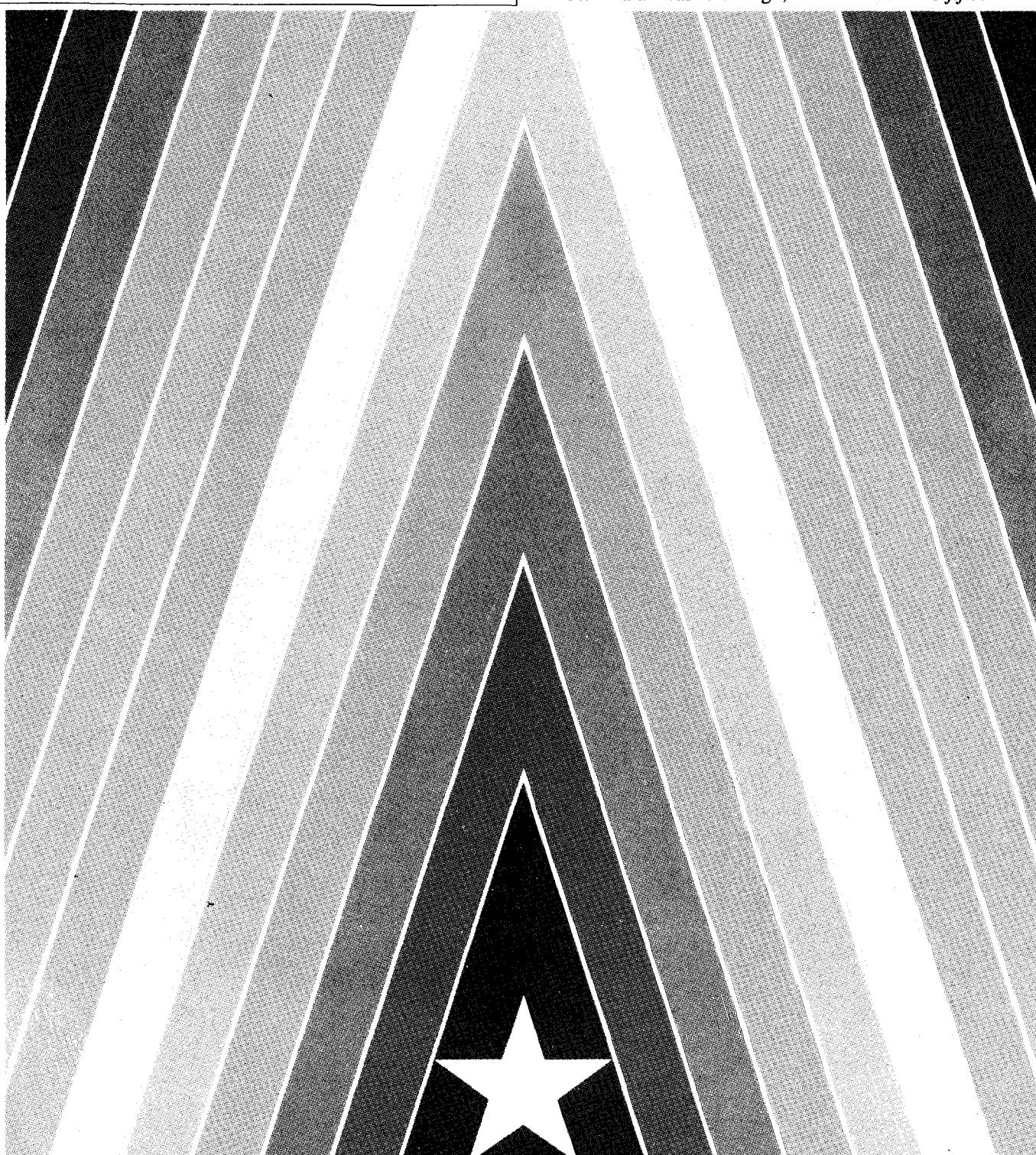
**Rialto Benefit:** Celebrate the 60th anniversary of one of the area's finest theatres. The party features Lon Chaney Sr. in *The Phantom of the Opera*, plus comedy shorts. All of this along with live organ accompaniment (no jokes, please). Rialto Theatre, 1023 Fair Oaks Ave., South Pasadena. Sat, Oct. 19, 7:00 pm. \$5.00 in advance, \$6.00 at the door.

**Festival of Animation:** A yearly favorite, and great fun. This is the Pick of the Week. Sexson Auditorium, PCC. Sat. Oct. 19, Sun. Oct. 20, 4:00 pm Sunday, 8:00 pm both nights. \$4.50 in advance, \$5.00 at the door.

**Vienna Choir Boys:** What more need I say? Beckman Auditorium. Sun. Oct. 20, 3:30 pm. \$18.00-\$15.50-\$13.00 staff, \$10.00-\$8.75-\$7.50 with student I.D., \$5.00 rush.

**PDQ Bach:** Despite the prohibitive cost, this man should not be missed. The best classical music comedian ever! Ambassador Auditorium. Sun. Oct. 20, 2:00 pm and 8:00 pm. \$20.00-\$18.00-\$16.00.

**A Scientist In Space:** This year's first Watson Lecture, given by Dr. Taylor Wang, JPL. All about science and riding the Space Shuttle. Beckman Auditorium. Wed. Oct. 23, 8:00 pm. FREE!



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**TIME**  
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# Diwana? Sure!

by Peter Alfke  
**Diwana Vegetarian Cuisine  
of India**

**1381 E. Las Tunas; 287-8743**

Diwana may look like your standard sandwich shop/deli, but the food is authentically Indian and extremely yummy. It's a good thing all three of us were pretty hungry when we went, as we were seduced by the menu into ordering a whole pile of food.

First came the *samosas*, India's contribution to the universal turnover concept: deep-fried triangles of flaky dough, filled with spiced vegetables and potato. After inhaling these, we dove into the *Masala Dossa*: a large crêpe made from fermented beans (actually quite delicious; sour and salty) rolled up and filled with mashed potatoes and onions. This came with chutney and a spicy sauce, into which we dipped both the *Dossa* and the *Gobhi Paratha*—an Indian flat bread filled with cauliflower.

As if that wasn't enough, we

also had a hot and spicy pea curry served with mashed potato patties (*Ragda* patties) and rice cooked with vegetables, nuts and raisins (*Vegetable Biryani*). All this we washed down with *Lassi*—a sweet yogurt drink much like a thin milkshake. (Mango milkshakes are apparently also available.)

If our little pig-out session reflects the rest of Diwana's offerings, then what we have here is a truly bitchen culinary experience for anyone who even thinks they might enjoy Indian food. The food is flavorful and spicy without being dangerously so, and complex enough in flavor that the absence of meat (much Indian food is, in fact, vegetarian) is inconsequential. By all means check this place out!

*Diwana is located at 1381 E. Las Tunas, (818)287-8743. Watch out: it's closed Tuesdays. To get there, take San Pasqual east to Rosemead, Rosemead south a ways to Las Tunas, then go west about a block. It's fifteen minutes away.*

## Mr. Palomar

from page 4

influence on the living world. Eventually, of course, the world will end.

"If time has to end, it can be described, instant by instant" Mr. Palomar thinks, "and each instant, when described, expands so that its end can no longer be seen." He decides that he will set himself to describing every instant of his life, and until he has described them all he will no longer think of being dead. At that moment he dies."

Italo Calvino died on 19 September in Italy of complications following a stroke. He would have been sixty-two last Tuesday. As an Italian Resistance fighter during World War II, Mr. Calvino collected the experiences which formed the basis for his first novel, *The Path to the Nest of Spiders* (1947). In the '50s, he turned more and more to fantasy, producing the trilogy *Our Ancestors* (*The Nonexistent Knight*, *The Baron in the Trees*, and *The Cloven Viscount*) and the tremendous compendium *Italian Folktales*. His short stories and novellas, such as those in *Difficult Loves* and *The Watcher and Other Stories*, continued in a realistic vein, while his longer works ("novels" is hardly appropriate) turned more to speculative fiction. *Invisible Cities* (1971) and *If on a winter's night a traveler* (1979) are regarded as masterpieces. Mr. Calvino was also an editor of a literary magazine in the '40s and '50s, and later worked for one of the larger Italian publishing houses.

He had been awarded some of Italy's (and some of the world's) highest literary honors in his career, and was at his death seen as perhaps Italy's greatest writer; he was certainly its most popular. Mr. Calvino was a quiet, unassuming man, and he need not worry, like Mr. Palomar, that his reputation might suffer after his death. He will be sorely missed.

## SPORTS

# Fussball

by Doug Roberts

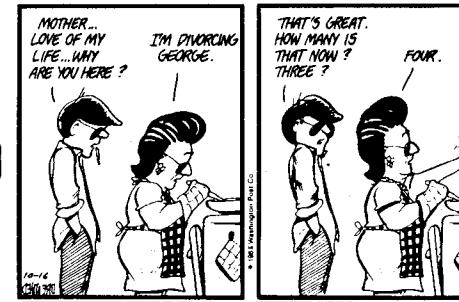
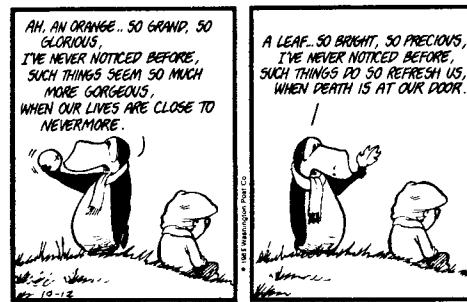
The Caltech soccer team continued its winning ways with a 2-0 overtime victory over Christ College Irvine.

After playing ninety minutes of scoreless soccer, the CCI coach, desperately seeking his first victory of the season, begged and pleaded for the game to go into overtime. He played right into the hands of the Caltech squad, who had clearly dominated regulation time play.

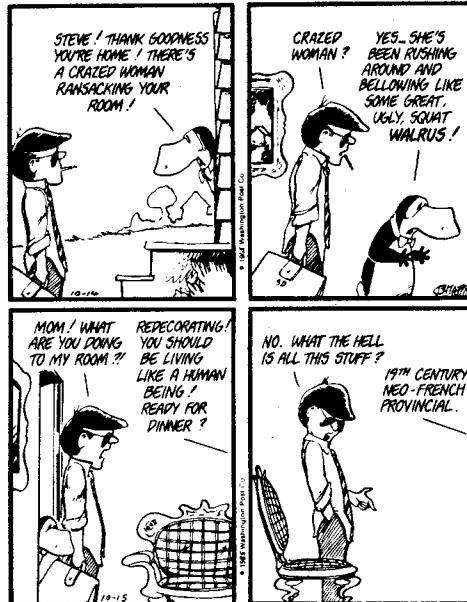
Five minutes into the first overtime period, halfback Konstantin Othmer, who hadn't played earlier in the game due to illness, lobbed a long, high shot that floated right into the back of the net. Then midway through the second overtime, John Josephson scored a goal from inside the penalty area that sealed CCI's fate, and the score stood at 2-0.

On Wednesday, the Caltech booters saw less success. With illness keeping the most offensive Techers off the field, Pomona-Pitzer scored a 4-1 victory over the Beavers.

John Henry Scott, filling in for an ailing Randall Bownd, scored the sole Caltech goal of the day. The Caltech side showed improving teamwork and hope for a victory tomorrow at Redlands.



## Blomo Nycoto



## SPORTS

### Football

from page 7

The score remained 9-0 until halftime. The half started with another Caltech drive, this time culminated by a 35-yard Brown off-tackle touchdown. Don Thomas made the score 17-0 with a two point conversion. Another Collins field goal ended the third quarter.

During the fourth quarter, La Verne completed two long bombs, one for a touchdown and the other to set up a score. After that, Caltech again shut them down.

The next home game is tomorrow at 1:30 pm against the Freelancers, another semi-pro team. It should be another victory for Caltech despite injuries to several key starting players: quarterback Aram Kaloustian, strong safety Don Thomas, and nose guard Mike Burl. All fans are appreciated.

### X-Country

from page 7

day, the Beavers handily defeated Christ College's small but talented team.

Last meet, C.I.T. faced conference rivals Redlands, Whittier and La Verne on a very tough Whittier course. Though Tech wiped out La Verne and Whittier, they could not overcome the large Redlands squad (or Team Chiquita, as they are also known). Though beaten badly by Redlands, CIT has a strong chance of overtaking them at the upcoming conference meet.

On a lighter note, it seems that several male and female runners had very interesting experiences at the La Verne-Oxy meet. In their tireless pursuit of intellectual knowledge, our gallant runners decided to hold.

In next week's *Tech*, look for reviews of the team's individual performances this year, and results of a tri-meet with Whittier and west coast powerhouse Cal State San Berdoo.

### Gumbo

by Pokey

The Boys out-tumbled those sexy Red Shirts to win the Discobolus trophy for the week. Watch Sunday as the Big Green Machine makes their play on the football field for the coveted award.

Pond Roses by the Y

by Rebke Thabdeer

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## SPORTS

# Kick-Ass Beaver Polo

by D. Mikasa

During the past week, the Caltech Beavers have continued in their pursuit of dominating the pool. Over the weekend the Beavers split squads and won three of five possible games, then on Wednesday beat Chapman in an exciting game.

Last Saturday, Caltech hosted its first JV tournament. After Pomona-Pitzer backed out, Coach Dodd decided that everyone needed playing time, so he split the team into two squads, upperclassmen and frosh. At 8:30 am, the weary frosh slipped into the pool to face the Whittier Poets. Luckily for the frosh, Whittier had come without a goalie and had to use Bruno as their goalie. The frosh played a great game and won quite handily. The next game was the upperclassmen versus Claremont. With Fred Ferrante behind

us, the Beavers were invincible and won this game also. At 11:30, the frosh came back to play Claremont. Although outmatched, they played for all they were worth. Unfortunately, it was not worth quite enough and Caltech had its first loss of the day. In the next game, Coach Dodd was nice enough to lend Whittier our starting goalie, Fred Ferrante. In a tough game, in which Vince Ferrante could not get the ball past his brother, the upperclassmen went down in defeat. The last game of the day was the upperclassmen versus the frosh. In a good game by both classes, the more experienced upperclassmen did come out with a victory, saving themselves much embarrassment.

On Wednesday, Chapman College came to visit the Beavers in their home water. In the last meeting, at the Riverside Tournament, Caltech lost by one goal.

Since we were missing our goalie, hole man, and frosh that day, the outlook was much better for this game. Chapman got off to a quick 3-0 lead in the first three minutes. From then on, however, it was almost all Caltech. About halfway through the fourth quarter and up by 4 goals, the starters began to leave the game. At this point Fred played some of the most inspired goal ever witnessed by this reporter. It was so great that chants of "Fred, Fred, Fred" echoed throughout the pool area. The final score in this Caltech victory was 16-11.

Tomorrow is the Caltech Invitational from 8:30 until 4:30. At 8:30 Caltech plays Whittier, at 11:30, U.C. Riverside, and at 3:30 the Beavers play Redlands. Come out and cheer us on in what may be some of the best water polo of the year.

## Weekly Sports Calendar

Day	Date	Time	Sport	Opponent	Location
Sat.	10-19	8:30 am	Water Polo	Caltech Invitational	Caltech
Sat.	10-19	10:00 am	Cross Country (M/W)	Whittier & CS San Bernardino	CS San B'doo
Sat.	10-19	10:00 am	Soccer	La Verne	La Verne
Sat.	10-19	11:00 am	Club Soccer	Corinthians	Caltech
Sat.	10-19	1:30 pm	Football	Orange County Mariners	Caltech
Sat.	10-19	7:30 pm	Women's Volleyball	Christ College	Caltech
Tue.	10-22	5:30 pm	Women's Volleyball	Occidental J.V.	Occidental
Wed.	10-23	2:30 pm	Soccer	Redlands	Redlands
Wed.	10-23	4:00 pm	Water Polo	Redlands	Redlands
Fri.	10-25	6:00 pm	Women's Volleyball	Pomona-Pitzer	Pomona-Pitzer
Sat.	10-26	9:30 am	Cross Country (M/W)	La Verne, Claremont Colleges	Pomona-Pitzer
Sat.	10-26	10:00 am	Soccer	Claremont-Mudd	Caltech
Sat.	10-26	10:00 am	Water Polo	Occidental	Occidental
Sat.	10-26	1:00 pm	Fencing	UCSB & Cal State Long Beach	Cal State Long Beach
Sat.	10-26	1:30 pm	Football	O. C. Cowboys	Antelope Valley Col.
Sat.	10-26	2:00 pm	Women's Volleyball	Whittier J.V.	Caltech

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# You Bet! X-C

by Grid Iron

Football? Caltech? You must be kidding, right? Well watch out, because the football team is real this year. Two weeks ago they destroyed a semi-pro team called the Nomads. With the score 28-0 and two minutes remaining in the first half, the battered and exhausted Nomads called it quits and left. Not much of a game, but a good start. Last Monday, Caltech proved it was no fluke by beating the La Verne Leopards' Junior Varsity team 20-14.

The key to this victory was a solid defense, a talented running back, and lot of hard work. The defense totally dominated La Verne, preventing them from even getting close to scoring until the fourth quarter when, with the score 20-0, the second string was put in. By that time, the game was fairly much decided. Except for a few Hail-Mary plays in the closing seconds, the game was never in doubt.

The offense centered on Jonathan Brown. He started the game off with a 30-yard kickoff return, which set the stage for a 40-yard drive culminating in a Steve Collins field goal.

The next big offensive series featured a few more big runs by Brown, a pass to Steve Roskowski, and some hard work by Steve Collins and Martin Brouillette. The drive culminated in a 25-yard halfback pass to Dwight Evard, who scored easily.

continued on page 6

Sorry about this, Ed! - Ed.

by John's Haba

Youth and enthusiasm have been the key forces behind this year's cross country squad. New coach Jim O'Brien, who formerly coached at the University of San Diego, has assembled a very large and eager squad of 35 runners, about two dozen of whom are freshmen. Despite their inexperience in intercollegiate sports, the current freshmen have brought about a feeling that cross country is the sport of the future at Caltech. While not expecting big things this year, Coach O'Brien and the team are hoping to become an SCIAC power a couple of years down the road.

The first meet this season was not very memorable, to say the least. With only one returning runner, and facing perennially strong teams such as UCSB and Westmont, the Caltech runners did not exactly leave anyone in the dust. Let's just say that Caltech's highlights of the day occurred mainly at the post-meet barbecue, where morale was high.

This year's second meet, however, was a complete tur-nabout. In their first bout with league competition, both the men's and women's teams, emerged with 1-1 records, being victorious over La Verne and bested by 1984 league champs Occidental.

Next on the schedule, Caltech faced Christ College Irvine at Arroyo Park—the first home meet of the season. On an extremely hot

continued on page 6

## collegiate camouflage



Can you find the hidden biology terms?

ALBINO	HOMEOSTASIS	RETINA
ANAEROBIC	HYPOTHALAMUS	RNA
AORTA	IRIS	SEX
ARTERY	LIP	SINUS
CHROMOSOME	MUCUS	SKULL
CLONE	NASAL	SMELL
DIGIT	PHARYNX	SYNAPSE
ENZYME	PHYLUM	TAXONOMY
EYE	PLASMA	TIBIA
FLAGELLA	PORE	TONGUE
HEPATIC	PSEUDOPOD	TRACHEA
HERMAPHRODITE	RETINA	VAGUS

**WHAT GOES ON**

*Material for What Goes On must be submitted typed on or with an Announcement Form, available at the offices of The California Tech, by the Tuesday preceding the Friday of publication.*

**Gamers Gather**

Friday nights in Clubroom 1, The Caltech Gamers get together to play various games, swap ideas, meet people and have fun, all centered around various games and simulations. Even if you're not free enough to join in on Friday nights, drop by and arrange other sessions for when you aren't busy. This is the time of year to start, because new game testing and development gets underway every fall. 7:30 pm to whenever, every Friday.

**Protect Human Rights**

Come make a stand for Human Rights and find out what you can do to help Russian Refuseniks. Delicious brunch will be served. Sunday, Oct. 20, 11 am in the Red Door Cafe. Questions? Contact Myra Baxter, x6163 or (213) 208-4427.

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**LOST & FOUND—**

**FOUND.** Freshman physics, chemistry, and APh books. Contact Rm. 39 Dabney (Paradise Alley x3771)

**LOST.** Saturday night. Garfield coffee mug, says: "I are a good student." Contact Paradise Alley x3771.

**Minority Grad Money**

Minority graduate fellowships are open to persons who are at or near the beginning of their graduate study. Applicants must be U.S. citizens or nationals who are members of one of the following ethnic minority groups: American Indian, Black, Hispanic, Native American (Eskimo or Aleut), or native Pacific Islander (Polynesian or Micronesian). For additional information contact the Financial Aid Office. Deadline for application is November 15, 1985.

**Graduate Fellowships**

National Science Foundation Graduate Fellowship Program is open to applicants who are citizens or nationals of the U.S. at the time of application. Students must be at or near the beginning of their graduate study. For more information contact the Financial Aid Office. Deadline for application: November 15, 1985.

**TA in Japan**

English Teaching Assistantship in Japan, formerly known as the Mombusho English Fellow (MEF) program. The program places participants throughout Japan in a variety of municipal and prefectoral boards of education. Up to 150 assistantships will be available during 1986-87. Applications are in the Financial Aid Office. Application Deadline is 5 pm, November 1, 1985.

**Chicano Scientists**

The National Chicano Council for Higher Education will support approximately 20 Hispanic undergraduate juniors who are interested in pursuing doctorates and academic careers. Applicants must be Hispanic citizens of the U.S. For more information, specific questions should be addressed to: Rafael Magallan, Tomas Rivera Center, 710 N. College Ave., Claremont, CA 91711. Phone (714) 625-6607 or 624-9594. For additional information contact the Financial Aid Office. Application deadline: November 8, 1985.

**The Gay Life**

CLAGS is starting a weekly discussion group and social which meets every Monday night at 8 pm in the Y Lounge, located in the Y office complex, 2nd floor of Winnert Student Center. Drop by and meet the other gay and lesbian Techers! All members of the Caltech/JPL community are welcome. (Bring food!)

**HONDA**

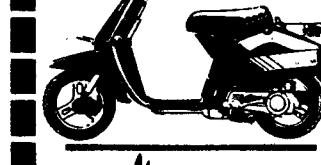
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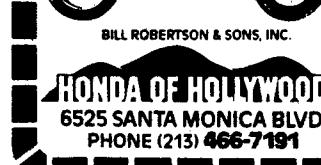


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The Swedish Club of L.S. is offering scholarships of \$500 to \$1000. Requirements are: 1) University student residing in Southern California; 2) Swedish descent; 3) Strong academic qualifications in university courses; 4) Must show economic need; 5) Must be a U.S. citizen or permanent resident. To apply, send resume to: R.W. Jackson, 1250 E. Walnut St., Suite 210, Pasadena, CA 91106. (818) 795-1098. For additional information contact the Financial Aid Office. Application Deadline: November 15, 1985.

**Computer Art Show**

From November 18 through 23, CalArts will be hosting Arts-Tech '85, a joint CalArts-Caltech Computer Art Show. Members of the Caltech/JPL communities are invited to submit flat art, color and b/w prints, transparencies, videotape, or film for a gallery exhibit of computer graphics. On November 19, there will be two live performances for which we are also seeking computer graphics images to be used as roll-ins. The deadline for submissions is Halloween, October 31, 1985. Please call Ernie Sasaki (273 Jorgenson) at x6255 for a copy of the complete Call for Participation.

**Hey Literature Lizards!**

Come join us and discuss Dostoevsky, ponder Pynchon, contemplate Kerouac, argue Austin, elucidate Eliot, etc. We are forming a laid-back literature group for those interested in reading and discussing (over tea, of course) books chosen once a month. A meeting to decide the whens and wheres and our first book will be 7:30 pm on Wednesday, Oct. 23 at the Red Door. Bring your brain, your mouth and your favorite book. For more information, call x4075 after 12 pm.

**Women's Basketball**

Undergraduate and graduate women interested in being part of a team—or just playing for fun—please come to the Gym at 10:00 Sunday morning.

**CCF**

Join us tonight for our regular time of fellowship, song, prayer, and food! David Rhodes will be speaking on the importance of Christian community. 210 Thomas, 7 pm.

**Work Study Students**

The Red Door Cafe needs you!! Monday or Wednesday afternoon, or both, 2-6 pm. \$5.00 an hour. Call or see Nancy at The Y, x6163.

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**Universe Schedule**

*Mechanical Universe*, the educational television series produced here at Caltech, is now showing on local television. For those of you with cable hookups, Falcon Cable is showing it on their educational channel (Cable 50) at noon on Mondays and Wednesdays, with numerous other showings planned starting in November. For those without cable, Channel 4 is broadcasting the show at 5:30 am M-W-F (yech!), and Channel 28 is more sensibly showing it at 3:00 pm Mondays and Wednesdays. For the very late riser, the show is also on Channel 58 at 6:00 pm Tuesdays and Thursdays.

**Caltech Bridge Club**

The Bridge Club meets Mondays at 7:00 pm, in the Red Door Cafe. We play duplicate. Everyone welcome. Earn Master Points! (We are ACBL sanctioned.) Call Jeffrey (x4543) for more details.

**Lost & Found**

Found at Frosh Camp: Associate Dean Jeanne Noda has a blue jacket and a man's watch found at Camp Fox. Stop by at the Deans' Office, 102 Parsons-Gates, if they are yours.

**Kannst Du Deutsch?**

Jeder, der sich auf Deutsch unterhalten kann (und in Übung bleiben will), ist zu einem deutschen Mittagessen eingeladen. Es findet Donnerstags um 12:00 im Athenaeum statt und bietet eine Gelegenheit, Leute aller Fachbereiche kennenzulernen.

Wer interessiert ist, kann den Präsidenten, Susan Larson, unter 4818 anrufen.

**Russia Trip**

Interested in visiting the Soviet Union over Spring break? The 2nd year Russian instructor at Caltech, George Cheron, is planning to repeat the previous years' highly successful trips. The cost is \$1350 (includes everything: air fare, hotels, meals, tour guides). Open to students, faculty, staff and their friends. A group roster will be drawn up at an orientation meeting next Wednesday, October 23, at 12:00 in Dabney 2. For more information call x3615.

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**United Nations Day**

A free lunch at the Athenaeum and a talk by onetime United States ambassador Nathaniel Davis are being offered to Caltech students by the Pasadena United Nations Association.

United Nations Day will be observed on campus on Saturday October 26, from 11:30 to 2 pm Dr. Davis, a U.S. diplomat who served in the U.S.S.R., Child Guatemala and Switzerland, and now teaches humanities at Harvey Mudd College in Claremont, will give the principal address.

Dr. Davis' topic will be "Directions in U.S. Foreign Policy."

To encourage undergraduate and graduate students to participate in the 40th anniversary of the United Nations, the Pasadena chapter of the UNA invites students to be its guests at lunch. Students who wish to attend must register in advance at the office of The Caltech Y in Winnert Student Center.

The Caltech Y is co-sponsor of the program.

**Play With Big Bucks!**

Come play with almost \$100,000 of other people's money! Absolutely no personal liability. No prior experience required. Free dinners at the Athenaeum and Scripps College. Insights into the world of high finance: securities earnings, profits, liquidity, etc. All students (undergrad and grad) are welcome. Too good to be true? Call Sing Ung at x3975 or leave a message. Or speak to Yosufi and his amazing talking machine at 796-3227. P.S. The Caltech Student Investment Fund will meet at 5 pm Wednesday, October 16 in the Millikan Board Room [Honest, they just gave it to us and asked us to print it on the 18th!]. All prospective members are welcome. Among other items on the agenda upcoming dinner at Scripps College.

**Read All About It**

There will be a meeting of the staff of *The California Tech* today at 12:15PM in room 127 Baxter (This is also known as the class PA 15.) Feel free to stop by if you're interested in working on the *Tech* (That is: BE THERE OR BE SQUARE!)