

## Feature

Chariots,  
Camels and  
Biplanes

by Ketan Shah

The athletic facilities and fields where the contemporary Caltech student plays in a heroic effort to avoid being the proverbial dull boy, Jack (all work and no play makes Jack a dull boy), was during the early part of this century, the site of impressive physical achievements. And that does not include the elephant-camel race.

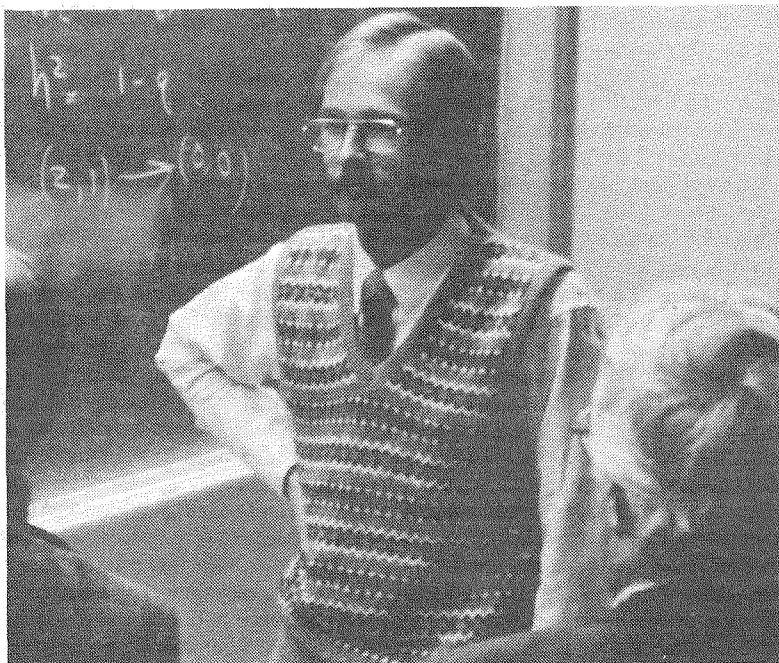
Alumnus Theodore C. Combs, '27, has recently published *Tournament Park—Pasadena Historic Site—Caltech Treasure*, in which he has recorded the history-making events that took place at that part of the Caltech campus south of California Boulevard and east of Wilson Avenue. That area now includes Spalding Building (business services), the Athletic Center and the athletic fields north and south of the Center.

That area is indeed, hallowed ground. To use television sports commentators' parlance, Tournament Park is where Michigan 'trashed' Stanford 49-0 on January 1, 1902, in the first New Year's Day football game. Mr. Combs quotes the *Pasadena News*: "Several thousand Dutchmen and Britishers engage in several years of bloody fighting for possession of a government and don't get an encore. Twenty-two striplings argue for an hour over the progress along the ground of an inflated pig's hide and law-abiding citizens bound up and down on the seats of their trousers while demure maidens hammer plug hats down over the ears of their escorts with parasols." Presumably, the newspaper was comparing the game with the two Anglo-Boer wars in southern Africa.

With the purchase of Patton Field, later known as Tournament Park, by the Tournament of Roses Association in 1901 (for the grand sum of \$6,300), the Rose Parade came to this part of Pasadena. Patton Field was named after the family of the not-yet-famous General George S. Patton Jr., San Marino's very own World War II military hero.

While the park served as a terminus for the Rose Parade, it was also the site of the Tournament of Roses' New Year's festivities. After Stanford's ignominious defeat in 1902, no worthy contender was found for Michigan in 1903. Thus, the Park hosted a genteel match of polo. Chariot racing, inspired by the best-selling book, *Ben-Hur*, dominated the

continued on page 3



-photo by Ron Glasse

Dr. Sieh listens to questions after his talk

## Housing Facts

by Susan Larson

(This is the second in a series of articles on issues concerning the standard of living of graduate students.)

When moving to a new area, a person faces the sometimes difficult task of finding housing. This job is even harder for graduate students who must find rents within their stipend ranges. The Caltech housing office offers a variety of services in order to make the search for affordable housing easier for graduate students. Landlords may list apartments or houses with the housing office listing service. This catalogue is available to Caltech faculty, staff, students, alumni, research fellows, and JPL staff and Huntington Library researchers. The housing office also acts as a landlord for several types of Caltech-owned housing.

The Institute owns graduate dormitory buildings on Holliston, the Catalina complex, as well as apartments and single family homes. 167 graduate students can be housed in the dorms on Holliston, and 156 in the Catalina apartments. Approximately 180 students rent off-campus Caltech-owned housing. About 65 of these students are married and about 25 have children. With graduate student enrollment just over 1000, this means approximately one-half of Caltech graduate students can live in Institute-owned housing.

Having the housing office as a landlord gives a graduate student several advantages, according to Jim Minges, the head of the housing office. The office has "active, professional level management," and students benefit by having an established housing office structure to rely on, and by having some control over their living conditions since dialogue between students

and housing office staff and faculty housing committee members is encouraged. Since Minges wants "to make things better for all graduate students," not only the ones able to obtain Caltech housing, the office "tries to operate as fairly as possible."

In September, 1984 rents for the off-campus houses and apartments were raised. According to Minges, rents were originally set when rents in the Pasadena area were fairly low. Caltech rents stayed low over the years because maintenance of the units was ignored, under the premise that many of the houses would eventually be torn down. In some cases rents were so low that Minges and the others felt that students in Caltech housing were receiving an indirect subsidy in comparison to their fellow students who faced higher Pasadena rents. When a new maintenance program was begun, rents were raised to cover costs. The housing office plans to set rents in order to cover the cost of operation (salaries, supplies, equipment, repairs, and loan repayments). A reserve is also maintained for large-scale repairs.

In April, 1984, Nancy Carlton joined the housing staff as director of housing, replacing Robert Gang. Carlton has started a program to upgrade the condition of all the Caltech rental properties and to review housing office policies. The wait list regulations have been clarified, and the list is currently being updated. New carpeting, linoleum, drapes and miniblinds are now available. Larger projects to improve wiring and plumbing are planned. New lounge furniture will be purchased for the Holliston dorms, and improvements are planned for the Villa apartments. Students wishing to make other improvements on their own may propose a project and, if approved, will be reimbursed for their expenses. Students are encouraged to make maintenance requests (a written note is appreciated).

The housing office feels that the need for single student housing has been met with the completion of the Catalina complex. Married students are the next priority, and to address this need, the office is considering the purchase of an additional apartment building. If such a building were purchased, it must

continued on page 4

Kerry Sieh Quakes  
Baxter Audience

by Charles Barrett

Caltech Associate Professor of Geology Kerry E. Sieh addressed the subject of "Earthquakes and Volcanic Hazards" before a group of secondary students, teachers, and interested members of the public last Wednesday afternoon, February 6, in Baxter Lecture Hall.

Dr. Sieh's talk was the fourth in the 1984-85 Lecture Series for Secondary Students program, coordinated by Caltech Director of Secondary School Relations and Special Student Programs Lee F. Browne.

California is no stranger to seismic activity, and this century alone has been witness to significant loss of life and property within the state as the result of earthquakes. Yet really big earthquakes (in the neighborhood of an 8 on Dr. Charles Richter's scale) are, thankfully infrequent. The only one this century in California was the 1906 San Francisco earthquake, and the last one along the Southern California end of the San Andreas fault was in 1857.

Needless to say, the potential for destruction is much higher in today's densely populated, industrialized California than it was seventy-five or a hundred years ago. Any advances in earthquake prediction could prove invaluable in terms of saving lives and property, even if statistics only result in general preparedness and tougher building codes.

Dr. Sieh's work at Pallet Creek, north of Los Angeles has allowed insight into the chronology of slippage along the San Andreas Fault. Examination of layers of sediment in the creekbed using carbon dating has yielded a seismic history going back centuries and encompassing twelve major earthquakes.

Analysis reveals an average interval between large earthquakes along that section of the San An-

dreas fault of 140 to 150 years. The fact that the last major slippage was in 1857, 128 years ago, means that Southern California is due for a major quake in the next several decades, if not sooner. Different models discussed by Dr. Sieh quote different statistics, but statistics are all that are currently available; these do not lend themselves to thoughts of evacuation in anticipation of an earthquake. They do lend themselves to general public preparedness, however.

In addition to being more spectacular than earthquakes, volcanic eruptions have proved to be at least a little more predictable. The eruption of Mount St. Helens in 1980 was anticipated in the long term, with the result that hundreds of lives were probably saved.

Attention is currently focused on the Long Valley Caldera region near Mammoth Lake, site of hundreds of small earthquakes in recent years. The local topography has displayed measurable "bulging" of late, and intensive data gathering has provided a wealth of information on the region's seismic past and present. No conclusions or predictions have been made public as yet as to the future activity of the area, however.

Dr. Sieh's talk gave valuable insight to the state of the geology. The ability to compile statistics is impressive, but ultimately it will be short-term predictability that will prove most valuable.

The Lecture Series for Secondary Students is free and open to the public, with talks held on the first Wednesday of every month (except January); secondary students interested in math and science are the target audience. The next lecture is March 6, with Dr. Jean-Paul Revel speaking on "How to See It All, No Matter How Small." For further information, contact Mr. Browne's office, x6207.

Zulu Chief Coming  
To Speak At Tech

by Houston Horn

Zulu Chief Gatsha Buthelezi, the leader of six million African blacks and an outspoken advocate of non-violent settlement of South Africa's apartheid policies, will appear as a distinguished speaker at Caltech on the evening of Feb. 18.

Chief Buthelezi's talk in Baxter Lecture Hall will be entitled "How A South African Leader Views America's Role in His Country." His trip to California was preceded by a stay in Washington, D.C. where on Feb. 4 he conferred with President Reagan for half an hour.

The Zulu nation over which Chief Buthelezi presides is on the Indian Ocean southeast of Pretoria, the capital of South Africa.

The white minority government in Pretoria has offered the Zulus independence, but they have refused it. To accept the so-called in-

dependence, Chief Buthelezi has said, would be for the Zulus to surrender the South African citizenship and thus forfeit any future claim to a national political voice.

Chief Buthelezi's strategy, he says, is to work peacefully within the system and eventually wrest from the white minority a portion of political power they now reserve exclusively to themselves.

His non-violent tactic has subjected Chief Buthelezi, however, to considerable criticism from younger Zulus and other South African blacks. Some believe that the tribal chieftain's accommodating approach tends to perpetuate apartheid rather than abolish it.

Chief Buthelezi answers his critics by saying his policy will take time, but will eventually succeed.

Chief Buthelezi's talk is sponsored by The Caltech Y and the Caltech World Affairs Forum.

## Social Notes

by Dan Schwartz

Tomorrow evening we'll be welcoming hundreds of guests to campus for the Occidental—Caltech Party. The festivities start at 7:30. Several bands will play for your satisfaction.

ASCIT and ASOC are providing tickets for four free drinks, with your choice of beer, well drinks, and soda. We'll have 15 kegs, and hundreds of Amaretto sours, Kahlua and creams, etc.

Burger Continental will be serving up burgers, hot dogs, and shish-kebabs at a reduced rate.

Caltech's party mecca will be located on the Quad, where we'll have dancing; on Winnett Patio with food and beverages; and in Page courtyard for socializing and entertainment. Don't miss it!

Contact a Social Team member if you want to help out, or give Dan Schwartz a call at x6274 if you have questions or comments.

# letters

## Rent Increase Questioned

To the Editor:

I would like to express some thoughts emerging from recent discussions with student housing administrators. The recent and projected rent increases for Caltech-owned homes and apartments have raised emotions and concerns among many graduate students. Several arguments have been given for these increases, some of which, such as the cost of increased maintenance efforts, seem quite valid. However, I have also heard repeatedly that Caltech's rents should be close to the open market rates in Pasadena; otherwise graduate students renting from Caltech would receive an unfair subsidy over students renting from a private landlord. While appealing to such noble principles as fairness and equality, this argument does not stand up to closer scrutiny, and I suspect that it was included to make the recent package of rent increases seem more palatable.

Caltech's housing office offers a number of advantages to its tenants, only one of which is a lower rent. In particular, most of Caltech's properties lie within walking distance from campus. Students renting from Caltech also enjoy gardening services, a recently improved program for maintenance and prompt repair and generally an uncomplicated relationship with their landlord. Offering these benefits is the very reason for the existence of the housing office, since no financial profit is generated from its operation.

It is equally important to understand that graduate student housing does not generate a deficit. All services are provided at cost: revenues from rents pay for operation and maintenance of the units, loans from acquisition of new property, as well as the salaries of the housing office staff. Accounting-wise student housing is a closed

system; in particular, there are no contributions to its budget from the Institute. This eliminates the idea of "unfair subsidy" to students renting from Caltech. A student renting from a private landlord does not subsidize the housing office, neither directly through his tuition payments, nor indirectly through loss of Institute funds that might otherwise be available for his financial support. However, this student might be hurt by the recent rent increases for Caltech housing if they drive enough students onto the private market to inflate outside rents.

Caltech housing does provide substantial benefits to its tenants. However, these benefits can be offered only to a finite number of students, currently about half of the graduate student body. Faced with this situation it is absurd to partially eliminate these benefits by raising rents in the spirit of fairness.

Considerations of fairness do have to be applied to the process by which students are chosen to receive these advantages. Personally, I have heard complaints about the way in which Caltech houses were handed down from older to younger graduate students without contacting the housing office (a practice almost eliminated by recent policy changes), as well as rumours about unexplained permutations in the order of names on the infamous waiting list. I still have to hear a student complain that it is basically unfair for Caltech to offer a good deal to its tenants. Consequently, much attention should be paid to the process by which the housing office selects the students that can profit from Institute housing, ideally with the aim of giving every graduate student the choice of renting from Caltech for some part of his stay here. Caltech could in principle house each graduate student for two to

three years. In my opinion, Caltech housing is most advantageous during the first years of a graduate program, when a rigorous course schedule makes it desirable to live close to campus. It is also much easier to find affordable housing on the open market in Pasadena after having lived here for some time. This applies especially to foreign students. I would therefore suggest that the housing office adopt a policy that would guarantee every incoming student the option to live in Institute housing during his first two years at Caltech. I believe this to be a more credible step towards fairness than the recent rent increases.

In order to avoid the flare-up of spirits and telephone calls caused by recent writings on housing issues in *The California Tech*, I would like to emphasize that this statement of opinion does not claim to represent official doctrine of the Graduate Student Council.

—Markus Meister  
Physics GSC Representative

## Fight Hunger

To the Editor:

I know that for most Americans world hunger is not a popular topic of conversation. For one thing most of us find hunger hard to identify with. But today world hunger has become a problem so big that it can no longer be ignored. In Africa, prolonged drought has put the lives of 150 million people in jeopardy. More than 20 million people in 24 African countries are in imminent danger of starvation. In Ethiopia alone, between 50 and 100 children are dying every day!

Along with many other organizations, World Vision is sponsoring a national planned hunger fight. To join the team, you may send donations (payable to World Vision, Hunger Fight) to World Vision, Box 0, Pasadena, CA 91106. You will receive a receipt for the donation and it's tax deductible. Or you may join their fast program to have people pledge for your fast. For further information, call toll-free GET HUNGRE hotline 1-800-423-4200. Please care for those starving people and start your action today!

—Christine Yu

## Frustrated With Reluctance to Change "Gender" Laws

To the Editor:

Last week, the proposal to eliminate gender references from the ASCIT by-laws failed to obtain the two-thirds majority which it required for adoption. I am disappointed, I am sad and I am angry. I have spoken to many people in an effort to understand the thinking of the roughly 43% of the student voters who opposed this simple change. None of the reasons advanced seem at all convincing. They include

1) "It's a waste of time." This argument is two years too late. The work has already been done and the time spent by people who felt it was worthwhile. The proposed new by-laws currently exist on paper. You were simply asked to choose between two alternate texts, the old and the new.

2) "It's a waste of money." Give me a break! A short time ago, two other by-laws amendments were passed. These changes will already have to be incorporated into any new printings of the by-laws (mainly in the *little t*, which is published every year, anyway), so the additional cost to add the failed amendment would have been negligible. In fact, whatever the cost, if it is considered in light of the expected life of ASCIT and Caltech, it becomes trivial.

3) "The new version sounds awkward." Do you really believe that the constant repetition of the word "he" is less awkward than repetition of "the president" or "the treasurer"? More to the point, the ASCIT by-laws were not intended to be a literary or a spoken work. They constitute an official document in which saying what you mean has top priority.

4) "'He' really means 'anyone'." This argument has at least some credibility but still falls short of being convincing. Many studies have been conducted to examine the more subtle effects of using male nouns and pronouns in ostensibly "generic" contexts (ask me for references). Not surprisingly, the mental images and lasting impressions formed are *not* gender-

free. In the present case, it is especially ironic to recall that when the ASCIT by-laws were first written, "he" most certainly did *NOT* mean "he or she". The painful truth is that at that time—and until 1970—women, no matter how smart, no matter how dedicated to science, were simply not permitted to attend Caltech.

Replacing the male pronoun with the unambiguous officer title is a gesture, a symbol, that we have progressed beyond the days when arbitrary discrimination was OK at Caltech and when "science" was a male preserve. Finally, even if you think that it's trivial and that the meaning is unchanged, it is obvious that many of your fellow students disagree. Why then actively oppose the new version?

After much thought, I can only conclude that the minority who blocked this proposal had other, less rational-sounding reasons. Resentment, reluctance to see change, a subtle desire to control, to defy progress, come to mind as possibilities. I hope and believe that this resistance will fade in time; that a few minds will be changed and that the amendment will pass. When I get frustrated with the slow pace of progress, I remind myself that the 19th amendment to the Constitution, acknowledging a woman's right to vote, was introduced every year for 50 years before it was finally passed.

—Morgan Gopnik

### THE CALIFORNIA TECH

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## Cinemattech

Episode 4 of Flash Gordon

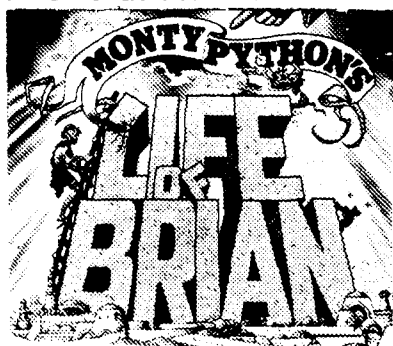
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in Baxter Lecture Hall

\$1 ASCIT members

\$1.50 all others

## The Caltech Y Fly-by

Friday . . . February 8  
Noon Concert, Prime Movers, at noon on the Quad.

Philharmonic Trip, tonight, if you signed up - don't forget.

Sign up for Philharmonic trip which will be on Wednesday, February 13.

Sign up today for "On the Threshold."

Tuesday . . . February 12  
"On the Threshold" including Caltech grad Sandra Loh plus other dancers, musicians, computer animators, and laser artists. At the Palace in Hollywood at 8 pm. The Y has tickets and transportation for \$7.

Wednesday . . . February 13  
Noon Update, to be announced.

Philharmonic Trip, tonight, the program will include works by Shostakovich. Tickets at the Y \$3.

Friday . . . February 8  
Noon concert, to be announced.

For more information, contact the Caltech Y at 356-6163, or just drop by.

## More Micros Coming

Benjamin Rosen, the venture capitalist and Caltech alumnus who has launched several highly successful computer hardware and software companies, has given \$500,000 to Caltech for its educational computing program.

Mr. Rosen's gift, the largest by an individual to the program, brings total contributions to the program, mostly from corporations, to over \$9 million.

"Caltech undergraduates will benefit quite directly from Ben Rosen's generous gift," said Dr. Geoffrey Fox, dean for educational computing and professor of theoretical physics. "We are using some of the funds to purchase about 100 Compaq microcomputers, including Compaq pluses and Deskpros, for student use. In addition, about \$100,000 of the gift will be used for maintenance, software support, and student fellowships.

"The gift puts us well on our way to the ultimate objectives of providing the equivalent of one microcomputer for each student," said Dr. Fox.

Dr. Fox envisions that the Caltech educational computing project will include over 800 workstations when fully implemented within the next two years. These workstations, linked by a high-speed campus network, will reside primarily in clusters of up to 10 or 20 machines placed in classroom areas, laboratories, the campus computing center, and libraries.

"Unlike the case with some institutions, Caltech is doing its educational computing on a variety of machines," said Dr. Fox. "We have concluded that a multi-vendor environment is to Caltech's best advantage, because the different uses of computers envisioned by the faculty in various disciplines correspond to different

optimizations of currently available hardware." Besides Compaq, other manufacturers represented in the project include Data General, Digital Equipment Corporation, IBM, Evans & Sutherland, Hewlett-Packard, and Tektronix.

Mr. Rosen, who received his BS in electrical engineering from Caltech in 1954, is a partner in Sevin Rosen Management, the venture capital firm that played a primary role in launching Compaq Computer Corporation and Lotus Development Corporation. Mr. Rosen is chairman of Compaq and a former founding director of Lotus.

After graduating from Caltech, and earning an MS in electrical engineering from Stanford, he worked first as an engineer, later earning an MBA from Columbia University, and becoming a securities analyst. In 1973, he began publishing Rosen Electronics Letter, a highly regarded electronics industry newsletter. In 1981, he launched a third career as a venture capitalist, joining with L. J. Sevin to found Sevin Rosen Management.

## Tournament Park

from page 1

Park events for five years from 1904.

Before football returned for good on January 1, 1916, an ostrich race and an elephant-camel race were featured. History was made in the second New Year's game, with Washington State vindicating the West Coast by defeating Brown 14-0. The last New Year's game to take place at the Park was in 1922. The Rose Bowl was constructed when it was realized that the popularity of the Game had outgrown the Park.

With Charles Lindbergh's shadow looming large in aviation lore, it seems as if enough praises have not been sung for another hero of American aviation, Calbraith Perry Rodgers. In a delightful chapter, Mr. Combs illustrates the adventures of Mr. Rodgers in the first transcontinental flight in 1911, beginning on Long Island and ending in Pasadena at Tournament Park. One is compelled to agree with Mr. Combs' contention that the flight should be "the subject of a best-seller, a musical comedy or a playwright's tragedy, or a combination thereof." For, did not the flight involve trials such as a crash into a chicken coop, a near collision with an eagle and thefts of parts of the 'Vin Fiz' as the Wright Brothers' plane was called by souvenir hunters? Mr. Rodgers completed the flight, albeit a day after the target date of November 4, 1911, landing in the park after 68 hops and 15 crashes. 10,000 people showed up for the landing, which was preceded by "... a series of spiral glides and other hair-raising maneuvers."

The then-president of Throop Polytechnic Institute (later Caltech), James A. B. Scherer, invited Mr. Rodgers to become an instructor in aeronautics. But the grandson of Commodore Matthew Perry had more adventures in mind. Sadly, he died in an airplane accident several months later.

Before a section of the Park was sold to Caltech in 1947 for \$280,000, and the rest in 1967 for \$69,000, the site was host to significant athletic achievements. Charley Paddock, who won a gold medal in the 100 metres at the

Olympic Games in Antwerp in 1920, set six records in a single day at the Park. The day was June 18, 1921, and the track was Paddock Field, named in Mr. Paddock's honour after his gold and silver medal wins at the 1920 Olympic Games. The six records were broken for distances of 90, 110, 130, 150 and 200 yards, and 100 metres (the latter in 10.2 seconds). Mr. Paddock won a silver medal at the Paris Olympics of 1924, and subsequently became a newspaper reporter, columnist and editor. He died on July 22, 1943 in an airplane crash in Alaska.

The final chapter of *Tournament Park* has the intriguing (given Caltech's recent competitive sports history) title of "Caltech's Winning Teams." Mr. Combs explains: "The 1920s were a golden age for track and field, and, in fact, for several sports—even at Caltech, notorious for its losers, where physical prowess is not high on the list of priorities... emphasis is on physical fitness rather than on producing teams, a most appropriate objective for Caltech."

In those days, the Beavers, to paraphrase Mr. Combs, gave a scare to their opponents.

The Southern California Scholastic Conference, composed of Caltech, Pomona, Occidental, Pomona, Redlands, Southern Branch (of the University of California, later renamed U.C.L.A.) and Whittier, was dominated in football by Caltech in 1923, 1930 and 1931. Caltech actually beat U.C.L.A. 59-6 in 1923.

Mr. Combs notes that although Caltech dropped out of varsity football in 1968 (the date is wrong, by the way), as of 1984 it has played in the Rose Bowl more than any other team. (Before UCLA, the Rose Bowl's home team was Caltech.) Also, several Caltech students competed in the Olympic Games in the 1920s and 1930s, in track and field.

*Tournament Park* is also rich in the early history of Pasadena and San Marino. Colourful characters that Mr. Combs writes about include Don Benito Wilson, General George S. Patton and James Shorb. The book is on sale at the Caltech Bookstore and other locations for about \$7.



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TO ALL CALTECH STUDENTS AND FACULTY:

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SPECIALTIES: SHISH-KABOB, SHAORMA, SOUVLAKI-STEAK  
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Mondays and Tuesdays are Beer Days. Half price on beer.

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# Grad Housing

from page 1

be decided if, or to what extent, the costs of acquisition should be covered by rents raised from all other Caltech-owned housing. Clearly the going market rate for a newer one-bedroom apartment is not affordable for a graduate student. On the other hand, students living in older housing may not wish to pay for the relative comfort enjoyed by students living in newer apartments.

The housing office "needs a lot of input," says Carlton. Students are urged to interact with the office and make suggestions for improvements in housing and in housing office policy. To plan space allocation for next year, the office is conducting a telephone survey of students living in the Holliston and Catalina dorms. Students wishing to participate in the survey but who have not been contacted can call the housing office directly.

Direct comments or questions to Susan Larson (138-78) or to Markus Meister (103-33).

# The Inside World

**Blacker:** Dear cruel, cruel world, People come and go, dynasties rise and fall, kings are born and emperors die; but Oh! Oh! Cruel World! Will travesties never cease? The cold, sordid truth is realized! Yes, Yes, it's true... the 1985 Blacker House Virgin plaque has been **STOLEN!** What kind of world is this in which we live? Look, you, you, you... filth! You know who you are! Return that plaque or else... **BUCKO!**

Boy, I'm angry. I'm peeved. In other less notable news, this week marked the end of the big hub-bub, hoopla, polling, conventions, rallies, handshakes, baby-kissing, and nepotism which always earmarks **BLACKER ELECTIONS.** For the rest of the free world's information, here's the results...

Mr. Pres.: Tom Nolan  
V-P's: Nancy Drehwing, Jim Bell  
Treasurer: Dave Wittman  
Secretary: Jack Profit  
Texan Fart: Richard Murray

Also we's gots a new social team and new All Frosh Ath Team. Other results posted in lounge. Keep those cards and letters coming.

*Blacker House, Blacker House  
We have black sweat-shirts  
Blacker House, Blacker House  
We have black T-shirts  
Go Big Black.*

—R. I. Fusebox

**Dabney:** "In Heaven, everything is fine," the Walrus said. And with that, he turned his back and left me standing alone. Alone, not knowing the difference between a pig and a winged cat. Alone in a sea of fencing ants crawling endlessly, leglessly to worship and back. Alone, asleep, awake. "Shall gnomes, etc.?" Who was he? Whence came his power? I reached out my hand. Every layer was instantly spun away: skin, flesh, bone, concept, ideal. Th blood of Vergil was spread on my palm, leading me to the lowest depths. Where seats were reserved for sentence fragments and sowers of D chords. The skin of the Walrus was soft, breathed heat. So gently it whispered as I stroked it. Let your fingers lead you to the gift of Joseph B. Where there's more to life than low pH.

—Ernst Formalism

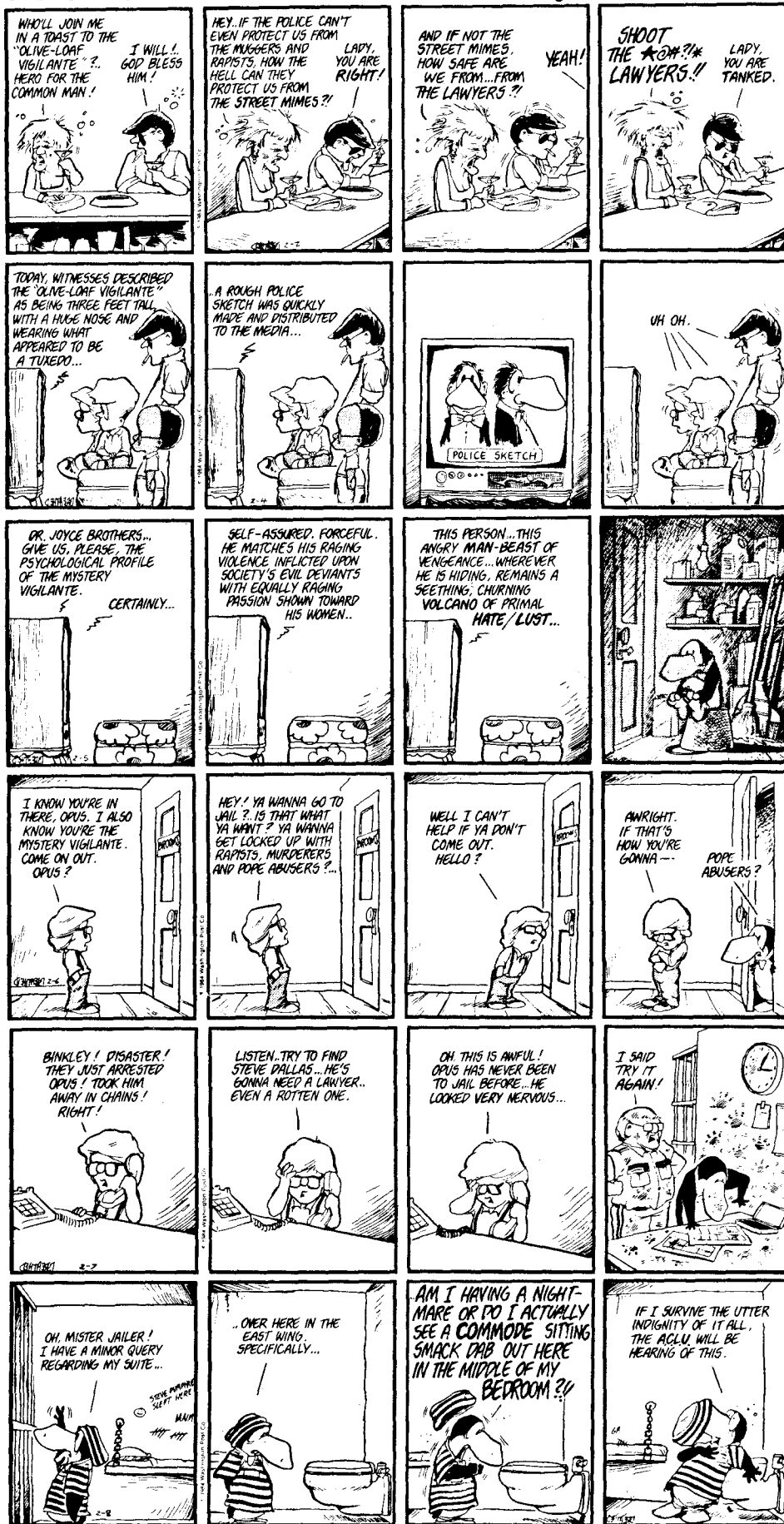
**Page:** Page House Secretary candidate Darin Acosta was the topic of conversation this week. Acosta demonstrated his sincerity and integrity by carousing around the house while in an artificial state of mind. Anything contained in a bottle was not safe from the probing alcohol-attuned senses of this young sophomore. Next week, we will be accepting contributions toward the Livers for Laze-Wads Fund.

Tonight are the elections for Page House. See you there at 6:00.

—Cyndi LePage

## BLOOM COUNTY

by Berke Breathed



**Fleming:** This past Saturday was a whiz-bang of a party in the penthouse. Chuck, however, was boneless

This weekend is wine and candlelight, brought to you by Chief Mark Eggleston. Who will go with Adam Slovik? No, not you Daniels. No, really, I swear I saw Slovik's name on the list. Or maybe it was Tikofsky. After that is some sort of a 6-house party on the Quad.

I have it on good authority from the Ath team that we're coming to "Fleming kind of sports." Is Page's lead big enough? Stay tuned.

—Al Fansome

**Ricketts:** Ship's Log—*HMS Ricketts*: Smooth sailing this week, although cumulo-midtermus clouds are forming on the horizon ahead. To prepare for the storm, the moral officer has scheduled the usual feast for Sunday to appease both the local gods and our appetites. Also this weekend is the rematch between our Scurvy crew and those landlubber longshoremen of Rud-Dock in Gumbobolus Track and Field.

—Ensign Bolender (Czech Mate)

**Ruddock:** Big news this week: ELECTIONS

Here they are—  
Pres.—Rich Doherty  
V. Pres.—Nathan Hurvitz  
Sec.—Jon Happe  
Treas.—Mark McDonald  
Soc. Team—Deirdre McClure, Janice Sakai, Biff Yamazaki  
Ath. Team—Mike Taylor, Van Eric Stein  
Lib.—Rich Arrieta  
Best of luck to you.

—Andy Campbell

# CHEMISTRY MAJOR TRAPPED IN TUBE.

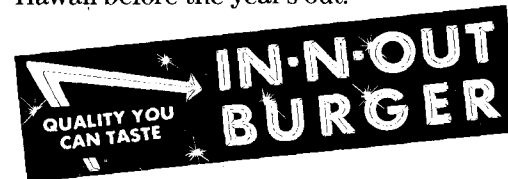
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Mr. Feynman!”**

---

**Adventures of a  
Curious Character**

---

**by**

**Richard P. Feynman**

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## entertainment

## Buckaroo Reviews

A Weekly Column by Matt Rowe

*New Day Rising*  
Hüsker Dü  
SST Records

"World Destruction"  
Time Zone  
Celluloid Records

Hüsker Dü's landmark *Zen Arcade* album was released in June, 1984 to such positive response that everyone wanted another album already. Fortunately, the Hüskers were recording *New Day Rising* at the time, and only seven months later, we have a successor to *Zen Arcade*.

*Zen Arcade* was impressive chiefly because of its size: a double album, twenty-seven songs long. Yet it also had scope: hardcore tunes, acoustic ballads, heavy metal, piano instrumentals, and a fifteen-minute psychedelic jam. If the album hadn't had so much range, it could never have occupied two disks; if it hadn't been so big, it could never have encompassed so much. A single album from Hüsker Dü would be a very different beast, indeed.

*New Day Rising* is fifteen songs long, but it is still a single disk. It is a much cleaner and more professional job than *Zen Arcade*, and, while some of the spontaneity is missing, it is equally energetic. Instead of trying so many different styles, Hüsker Dü now melts them all into one. They also show the influence of San Pedro's greatest asset, the Minutemen, and of fellow Minneapolis residents, the Replacements (whose *Let It Be* was released at the same time as *Zen Arcade*).

Side one of *New Day Rising* is in the same vein as the Hüskers' earlier *Metal Circus*, and the appropriately titled *Land Speed Record*. These songs are powerful, heavy, and short (if not always fast). The album opener, "New Day Rising," is a repetitive chant with music to slam to: in concert you can't hear the words anyway, and I'm sure it comes out better. Like Hüsker Dü's earlier releases, the first side *does* have some gems. "I Apologize" is sincere enough, but vocalist (and guitarist) Bob Mould seems fed up with it all. One imagines this isn't the first time he's apologized. The next track, "Folk Lore," highlights Hüsker Dü's role as one of the few intelligent punk bands left:

*Lesson I learned in history book, now  
It's not what they told me  
Folk lore, folk lore, folk lore  
Your mamma never told you...*

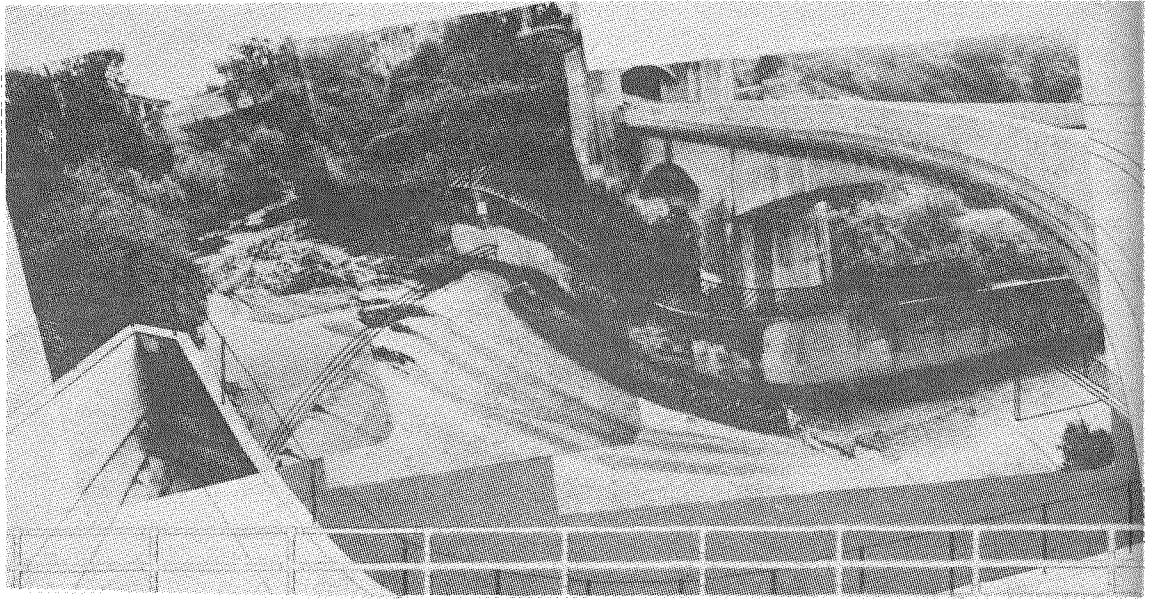
Only in "Celebrated Summer" can one glimpse the originality and range that made *Zen Arcade* so phenomenal: a heavy, fast song is split in three by slow acoustic guitar solos. After one side, *New Day Rising* sounds good, but not great—hardly a worthy successor to *Zen Arcade*, but no cause for embarrassment.

Every song on Side Two is as good as or better than *Zen Arcade*—Hüsker Dü shines here. "Terms of Psychic Warfare" is reminiscent of the Minutemen, with Greg Norton's funky bass playing driving a lament about a girl who is constantly trying her hand at applied psychology—enough to drive her boyfriend mad. "Powerline" recalls the Hüskers'

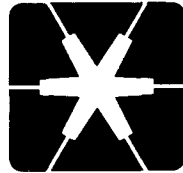


only single—an amazing remake of the Yardbirds' "Eight Miles High," released just before *Zen Arcade*. "Books About UFOs" displays the band's humor atop a bit of fifties-style piano boogie ob-

continued on page 8



Arroyo Seco Released in BaxArt: The new show at the Baxter Art Gallery is a work by Newton and Helen Harrison entitled "Arroyo Seco Release: A Serpentine for Pasadena." The Arroyo Seco, an area near the Rose Bowl and Old Pasadena, would make a beautiful park were it not for a necessary flood drainage channel. The Harrisons' work presents a plan to refurbish the area while keeping the flood channel. Drawings, photographs and a slide show are used to make their point. BaxArt (x4371) is open from 12 noon to 5 pm, seven days a week.



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Marty Kaplan, Vice President - Distribution Services-South and Caltech Alumnus, will be here to talk about Pacific Bell as a leader in Telecommunications and career opportunities that are available.

Pizza and soft drinks will be served as refreshments.

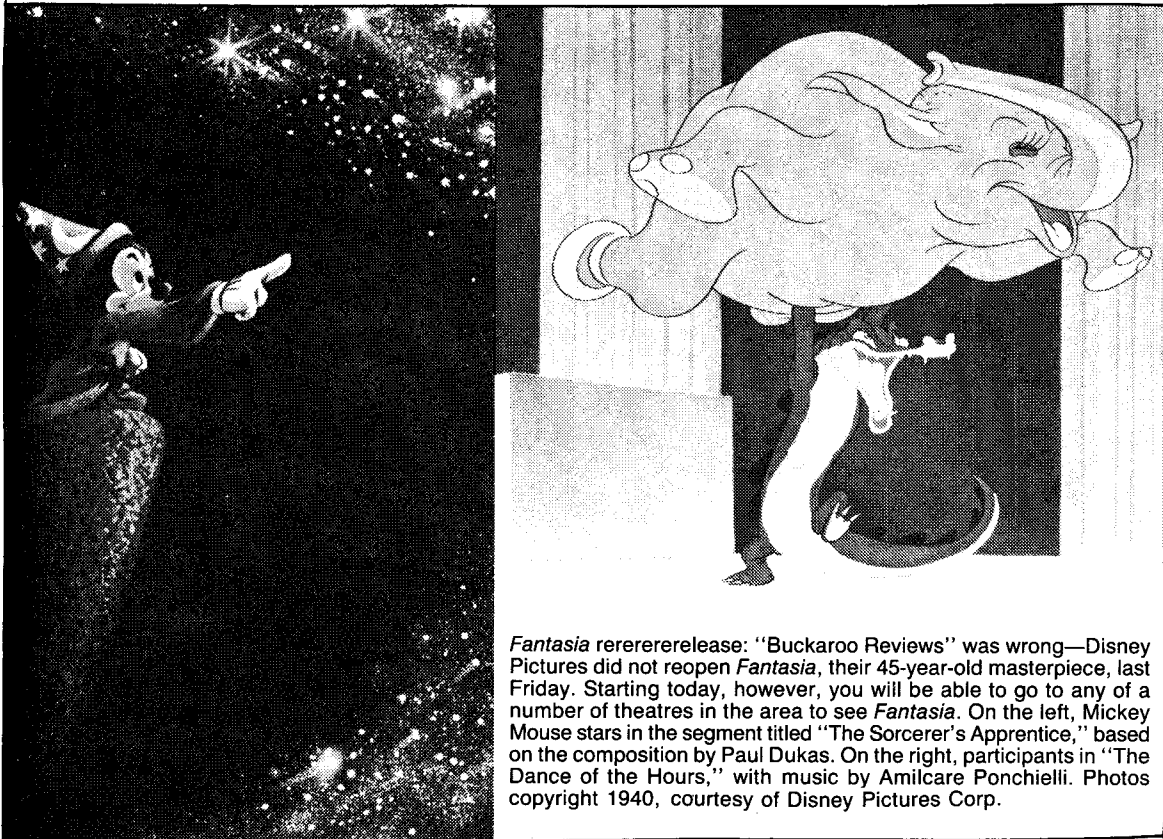
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## entertainment



*Fantasia* rerelease: "Buckaroo Reviews" was wrong—Disney Pictures did not reopen *Fantasia*, their 45-year-old masterpiece, last Friday. Starting today, however, you will be able to go to any of a number of theatres in the area to see *Fantasia*. On the left, Mickey Mouse stars in the segment titled "The Sorcerer's Apprentice," based on the composition by Paul Dukas. On the right, participants in "The Dance of the Hours," with music by Amilcare Ponchielli. Photos copyright 1940, courtesy of Disney Pictures Corp.

## Ozone: 1 Shadowfax: 0

by John Fourkas  
*Shadowfax/Makoto Ozone*  
Beverly Theatre  
February 1

It was a cold and windy evening in Beverly Hills. The yuppies and the *nouveau riche* gathered in droves outside the posh Beverly Theatre (complete with two full service bars and a couple of photographs of Meatloaf). A line of picketers circled round and round endlessly, handing out flyers to those who cared. I should have known it would be one of those nights. . . .

The four of us swept past the two bars (pausing only to admire Meatloaf and James Brown) and headed directly for our prime back row balcony seats. Smiling men in suits with girl friends ensconced in "fun furs" stepped on our feet as we waited for the show to begin promptly one half hour late.

The opening act was well worth the wait. Exactly thirty minutes after the appointed hour, Makoto Ozone shyly strode out on stage and plopped himself in front of a grand piano. The audience was then treated to thirty awe-inspiring minutes of jazz piano from the young Japanese virtuoso.

Ozone played four piano pieces during this half hour, including two of his own ("Crystal Love" and "Flight"). The keyboard work was nothing short of amazing, and Ozone chose his music well. If the audience was not fully appreciative, it may have been due to a bit of shyness on Ozone's part. Although he did radiate utter confidence while playing, his nervousness became apparent between pieces (at one point he had trouble deciding what to play next). The only thing which could have seriously improved the performance (other than greater length) would have been the string bass and vibraphone accompaniment that he had on his album.

Nonetheless, Ozone was impressive and I would like to see him in concert for a more substantial period.

As the stagehands pulled the grand piano off of the stage, we were left to ponder the nature of the headline act. Our combined knowledge of Shadowfax was scanty at best; we knew that they recorded for the Wyndham Hill label and we could see their instruments on stage: keyboards, guitars, drums, miscellaneous percussion, horns and woodwinds, an electric violin, and a Fender P-bass. Perhaps the between-the-acts music should have tipped us off. . . .

At first, I was favorably impressed with Shadowfax. Their opening number was a mix of eerie keyboards, interesting percussion, mellifluous horns, and haunting violin. It did not bother me too much when the song failed to develop a melody. I was not even too put off when the second piece proved indistinguishable from the first. By the time I had heard the same music for the tenth time, however, I began to be somewhat upset.

There is nothing particularly wrong with Shadowfax. The fact that they have managed to fill so many albums with the same song is quite impressive. What really hurts is the fact that all of the band members seem to be good musicians who are wasting their time catering to the "mellow" set. The best offering of the evening (which just happened to be the encore) was an unrestrained blues jam. Although this piece seemed to upset a few people in the crowd, most of those who had not yet fallen asleep found the number to be really rousing.

If Shadowfax ever decides to let their guitarist actually play his instrument as such, they might make a fair rock band. Until then, I would suggest their music only as a cure for insomnia.

## Irish Folk Saturday in Beckman

by Nick Smith

Tomorrow night in Beckman Auditorium, there will be a performance by one of the world's best

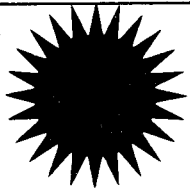
instrumental groups, The Chieftains. Never heard of them, you say? Well, you've probably heard them and not noticed. They have

composed and performed music for several films, with perhaps the best score being the one for *The Grey Fox*.

The last time they performed in Beckman, two years ago, they did traditional Irish folk music with their own amazing style. This time, they are going all out, bringing a chamber orchestra with them to do the really *big* pieces they've written for films.

The Chieftains are marvelous musicians, and have collaborated with such diverse fellows as Eric Clapton and Art Garfunkel. They use traditional Irish instruments such as bodhrans, harps and pipes to create their sound. In addition, they are a lot of *fun* in concert, in ways that records can't convey.

Go see the Chieftains if you can manage it. The tickets, if any are still left, aren't cheap. Basic prices are \$20, \$17.50 and \$15, but Caltech and student discounts are available. The money will be well spent, I assure you. (And you can trust me, after all. . . .)



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Come see us at CPPC on the 13th



## Eurasian Invasion in 1985

by Matt Rowe

1985  
György Dalos  
Pantheon (\$4.95, paper)

1985 is, as you might have guessed, a sequel to 1984. In December 1984, it seems, Oceania suffers a tremendous defeat in an air battle with Eurasia, and in early January of the next year, Big Brother dies. What is left of the Oceanian government is forced to surrender to Eurasia. Seeing the opportunity offered by national unrest, O'Brien, leading the Thought Police, instigates revolutionary feeling in the people, hoping to take control. The Outer Party (led by Winston Smith) and the Protos (led by one Muhammad Stanley) take advantage of these feelings to create their own revolution. The new government lasts from the 2nd to the 7th of September, 1985, when "friendly" Eurasian armed forces invade Oceania to "restore order" and "guarantee independence." The revolutionaries are killed or imprisoned, and a new totalitarian government takes control.

A very similar scenario occurred in 1956, when the U.S.S.R. invaded Hungary.

And in 1968, when the U.S.S.R. invaded Czechoslovakia.

And in 1980, in Poland...

György Dalos, the author of 1985, witnessed the Hungarian version. 1985 is as significant an allegory for our times as 1984 was

for Orwell's; unfortunately, Dalos' subject is one that cannot be treated well as allegory. The plot moves well, characters are well enough developed, but the basic intent of the book—to relate how the revolutionary "London Spring" was transformed into a new totalitarianism—is given too broad a focus. Perhaps this is a result of the innovative style of 1985: excerpts from the memoirs of Smith, Julia, and O'Brien are interspersed with news items of the day. The books attempts to be both a novel and a history and, uncertain, fails as both. The historical aspect is counter-productive: to know what happened in Hungary, Czechoslovakia and Poland, we must read our own books, the histories of real events. The fictional aspect, undeveloped, is only frustrating: if a personal account is desired, I would suggest the Czech Milan Kundera's *The Book of Laughter and Forgetting* (1981) and *The Unbearable Lightness of Being* (1984) both available in Millikan. But 1985 is not worthless: it is a short book, takes only a few hours to read, and, with its (perhaps inappropriate) comic bent, will make those hours enjoyable; if you are unfamiliar with the events of 1956, 1968, and 1980, it makes a decent enough introduction; and besides—last year everyone was reading 1984; this year, why not read 1985? And why not vote for me on Monday?

## Rock On, Hüsker Dü!

from page 6

viously inspired by the Replacements:

*Her life revolves around all of the planets  
And she is constantly aware of all the  
changes that occur*

*I'm going to turn into a lens and focus  
all my attention*

*On finding a new planet and naming it  
right after her*

*She tells the same old story to everyone  
that she knows*

*She's just sitting in her room reading  
books about UFOs*

Exhausted by the effort, Mould, Norton, and drummer Gary Hart close *New Day Rising* with "Plans I Make," a song which loses steam with every note. By the end of the album, Bob Mould is able only to shout an occasional word of the lyrics, and the music similarly disintegrates. At the end of the song, instead of shutting off the tape, Hüsker Dü (who also produced the album in collaboration with Spot of Fear) remain silent for a moment—and then start laughing and fiddling around with their instruments, until someone remembers to hit "stop."

Side one is weak, but side two is amazing—what does that add up to? *New Day Rising* is a step forward in the evolution of Hüsker Dü's sound, like *Zen Arcade*, but that album marked a particular level of achievement. *New Day Rising* is uncertain of its direction, and comes off uneven. The final decision is yours—*Zen Arcade* is a great album, but some of the songs on *New Day Rising* are even better. Or maybe you want to wait for their next album, which will undoubtedly be another step in an equally unpredictable direction.

On a first spin, it's hard to believe that "World Destruction" stems from the same musical revolution as that which

engendered Hüsker Dü. Time Zone is the name chosen by collaborators Afrika Bambaataa (whose duet with James Brown, "Unity," is also noteworthy) and John Lydon (aka Johnny Rotten, of the Sex Pistols and Public Image Ltd.) for this single, produced by Bill Laswell (of the band Material, who also produced Mick Jagger's upcoming solo album), and featuring keyboards by Bernie Worrell (who has worked with Talking Heads and George Clinton). Perhaps they should have called this one "Unity."

Afrika Bambaataa wrote a song with heavier lyrics than most, and so he called Lydon and asked him to help with the vocals. It's a rap:

*This is a world destruction  
Your life ain't nothing  
The human race is becoming a disgrace  
The rich get richer  
The poor are getting poorer  
Fascist chauvinistic government fools!*

Like most of Bambaataa's singles, it's highly danceable; like most of Public Image's "songs," it is heavy on guitar. Lydon's vocals are appropriate, and the steady backbeat typical of electrofunk fits in perfectly with the relentless message of the song.

Amazingly, Time Zone neatly fuses opposite aspects of pop music: politics and dance; artistry and commercialism; black and white. "World Destruction" is hardly the end of the world—I think it just might be the start of something big.

"World Destruction" by Time Zone is available as a twelve-inch single on Celluloid Records, with original and remixed versions. The remix adds more effects, and a lot of out-of-context quotes from political leaders.

By the way, I'd appreciate your vote on Monday.

Caltech Musical  
The Mikado is Coming

Theater Arts will present the 1985 Caltech Musical, *The Mikado*, in Ramo Auditorium February 22 and 23 and March 1 and 2 at 8 pm, and February 24 and March 2 and 3 at 2 pm.

The Caltech Musical is an (almost) annual tradition. Recent shows have included *Brigadoon*, *South Pacific*, and Leonard Bernstein's *Candide*. The Musical is open to the entire Caltech/JPL community, providing an opportunity for students, faculty, and staff to meet in an informal setting, and exercise creativity in a non-scientific field of endeavor.

*The Mikado* was first staged exactly one hundred years ago, in 1885, but has lost none of its charm and humor. It tells the tale of Nanki-Poo, the son of the Mikado (or Emperor) of Japan, who has fled from his father's court to escape the unwanted attentions of the elderly Lady Katisha; and of his rivalry with Ko-Ko, the Lord High Executioner, for the hand of the delicious Yum-Yum.

*The Mikado*, one of Gilbert and Sullivan's most popular works, includes the famous "Tit-Willow" and "We are Gentlemen of Japan." Nominally set in Japan, the show is actually a spoof of Victorian England; and though Arthur Sullivan was knighted early for his lively and entertaining music, the biting political satire of W. S. Gilbert's libretti caused his knighthood to be delayed many years. This was one source of the legendary jealousy between the two most successful musical comedy writers ever.

This year's show has three producers: Jerry Burch, Caltech BS '84, now a graduate student; George Williams, B.S. '81, currently at JPL; and Rosana Gatti, a staff member from the Career Development Office.

After over a decade, the Musical has returned to the operettas of Gilbert and Sullivan. In the mid 70's, director Bruce McLaughlin participated in a production of *The Pirates of Penzance*, for which the set consisted of a papier mâché rock, and the costumes, of T-shirts. *The Mikado* will be on a much grander scale. The sets, designed by Eric Warren, include a traditional Japanese moon bridge and a moon-viewing platform. Costumes, make-up and hair-design (a harrowing combination of responsibilities, given the period and the Japanese setting of the piece) were created by Minta Manning. Jean Muller, a former staff member in Biology, is the choreographer.

Bruce McLaughlin, B.S. '77, brings Gilbert and Sullivan's eternal nonsense back to Caltech. A native Southern Californian, Bruce now works at JPL on the Voyager and Mars Observer projects. Bruce's appearances on the Caltech stage include Voltaire in *Candide* (1981) and Leonato in last year's *Much Ado About Nothing*.

Musical director Arie Michelson comes to Caltech from that Los Angeles of the East, New York, where he studied music theory and history, as well as biochemistry, at Columbia; and conducting, at the Hebrew Arts School. Now in his second year as a graduate student at Caltech, Arie pursues research in cellular

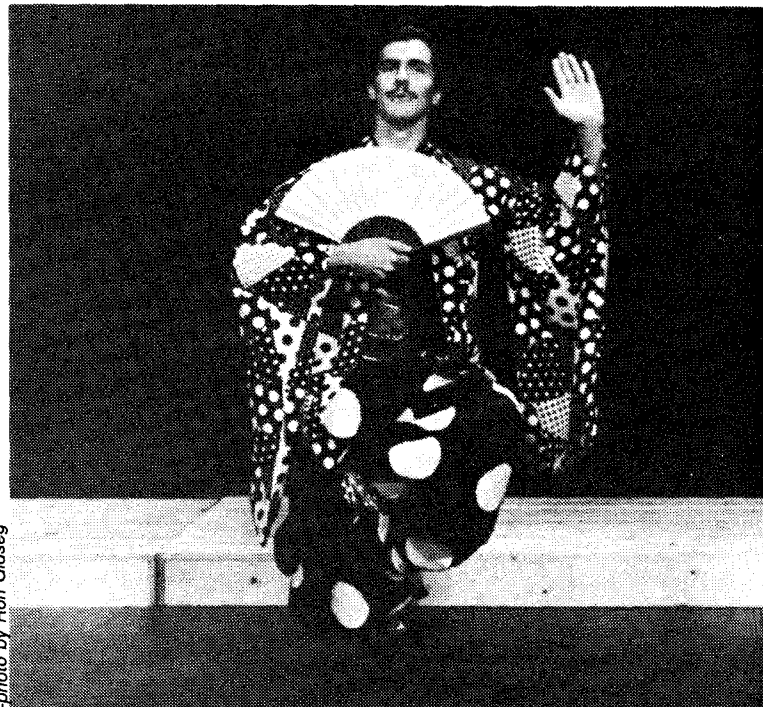


photo by Ron Gidsey

Mark Beckwith as Ko-Ko in TACIT version of *the Mikado*

neurobiology. Arie first entered the Orphic world of Caltech theater as composer and conductor of the incidental music for last fall's production of James Thurber's *The 13 Clocks*.

Doug Balcom (Nanki-Poo) works at JPL simulating the magnetospheres of Jupiter and the Earth. He loves to sing, and has joined every choir that would let him, including the Northwest Boychoir in his native Seattle. He has been a member of the Caltech Men's Glee Club and Barbershop Quartet for two years, and was seen in the Glee Club's semi-staged version of *Trial by Jury* last spring.

Mark Beckwith (Ko-Ko) and Kris Lofdahl-Beckwith (Yum-Yum) have both experienced the crossed love for the arts and sciences. Indeed, Mark's was particularly star-crossed, for he started out in Astronomy. Kris began life as a biologist. Now they study voice, sing with the San Gabriel Valley Civic Light Opera, and in the near future will open a revue

in Sierra Madre called *Broadway for Two Looks Back*. They have also performed Gilbert and Sullivan before, with the Los Angeles Opera Comique. Mark first came to Caltech in the Summer Science Program, in which he has participated both as student and as tutor. Mark and Kris were last seen on the Caltech stage in *Two Gentlemen of Verona* in 1982.

Anita Nardine (Katisha) received a B.A. in music from Cornell and is now an active member of the Caltech Women's Glee Club. Anita appeared as Angelina in *Trial by Jury*; she also researched and arranged the music for *Much Ado About Nothing*.

*The Mikado* is sponsored by the Caltech Office of Public Events. Tickets may be purchased at the Caltech Ticket Office or at the door. Ticket prices are \$8, \$7, \$6 and \$5; student, group and Caltech discounts are available. For further information, call x4652. The 8 pm performance on March 2 will be signed for the hearing impaired.

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# ASCIT Elections

## BOC Chairman/ Vice President

**Fred Ferrante**



I am seeking reelection to the position of ASCIT Vice President. The position not only entails customary vice-presidential duties, but also the responsibility of acting as chairman of the Board of Control. The chairman's duties include investigating cases of possible honor system violations.

I share many people's opinion that the honor system is an invaluable institution of life at Caltech. A just and well-operated

Board of Control is crucial to maintaining the security and trust that we enjoy. Having been on the Board of Control the last two years, I am well aware of the time commitments, the seriousness of the nature of the Board's work, and the importance of protecting not only the Caltech community, but also the rights of the accused.

Being a voting member of the ASCIT Board of Directors is another responsibility of the office. I believe that I possess the experience and dedication necessary for assisting the President in providing an effective student government.

My decision to run for reelection is the result of careful deliberation. I welcome any questions that you may have concerning the Board or Honor System. I would appreciate your support this Monday.

Thank you.

**Tim Allen**



The honor system is on the verge of total disintegration.

I am running for ASCIT Vice-President because the community has changed so much in the recent past that the Board of Control, with its current procedures, policies, and officers, is no longer equipped to uphold the honor system. Only a new chairman, with the power of general public approval of his policies behind him, can implement the necessary reforms fast enough to ensure the continuation of the honor system.

The reforms I would implement as soon as possible are encap-

sulated in my three campaign promises:

1. Get tough on cheaters.

At least 50% of the community cheats on a semi-regular basis (these figures are based on my two years of board experience, but are only an educated guess). Clearly, honest students' grades are severely jeopardized by the large number of artificially high scores. The obvious problem: how can the Board of Control prevent this cheating before it occurs, rather than addressing the issue after the fact? One obvious solution is to make the penalty for cheating so severe that the would-be cheater can no longer afford to "risk the BOC." A great many students are under the impression that first offenders are only slapped on the wrist (this rumor, unlike many, is often true). Therefore, an individual who has never been before the board really has nothing to lose by cheating, even if he gets caught. If this slap-on-the-wrist policy were abolished, people would be far less inclined to cheat. I am not advocating merciless application of punishment for first offenders (any policy must be applied with enough reason and

compassion to allow for special cases); but I am advocating affirmative action intended to drastically reduce the number of academic honor system violations.

2. Ameliorate student relations with the housing office.

We all know that students must treat the housing office as a member of the community under the honor system. I know many students, however, who believe that the housing office has acted in an officious, unreasonable, and dishonorable way since the change in administration. I have been keeping track of many cases of the housing office's lying to students or failing to provide safe and sanitary living conditions ("because making repairs would cost too much"). The Board of Control is in a particularly effective position to see that the housing office treats students under the honor system. We can all imagine what would happen of the Board of Control suddenly announced that the housing office was no longer protected by the honor system; but certainly such extreme measures would only be used to bargain with after all proper channels had been exhausted. I have talked with Nancy Carlton, who, understandably, refused to treat me under the honor system because she felt that students regularly take advantage of the housing office particularly with respect to guest meal policies. I can see why she does not wish to trust people who steal from her. If the students make a real, visible effort to respect the housing office, the Board of Control can certainly see to it that the housing office returns the favor. We all would benefit if the current tensions were eased through mutual trust and cooperation.

3. Provide a more open relationship between the Board and the student body.

While "board secrecy" is necessary to some extent, I believe that students have a right to know what the board is doing. Also, the board itself should be more receptive to the wants, needs, and suggestions of the community. If elected, I would establish a weekly column in the *Tech* in which I would respond to any questions or suggestions that you, the public, submit. I would also distribute a (real, this time) Board of Control survey, which would ask truly meaningful questions that would not only indicate how you feel about the board, but what you know about the state of the honor system in general, and what you think the board should be doing.

I take this election very seriously. I honestly believe that the Board of Control must take a new approach if the honor system is to continue. If I am elected, you will notice a difference for the better in the Board of Control.

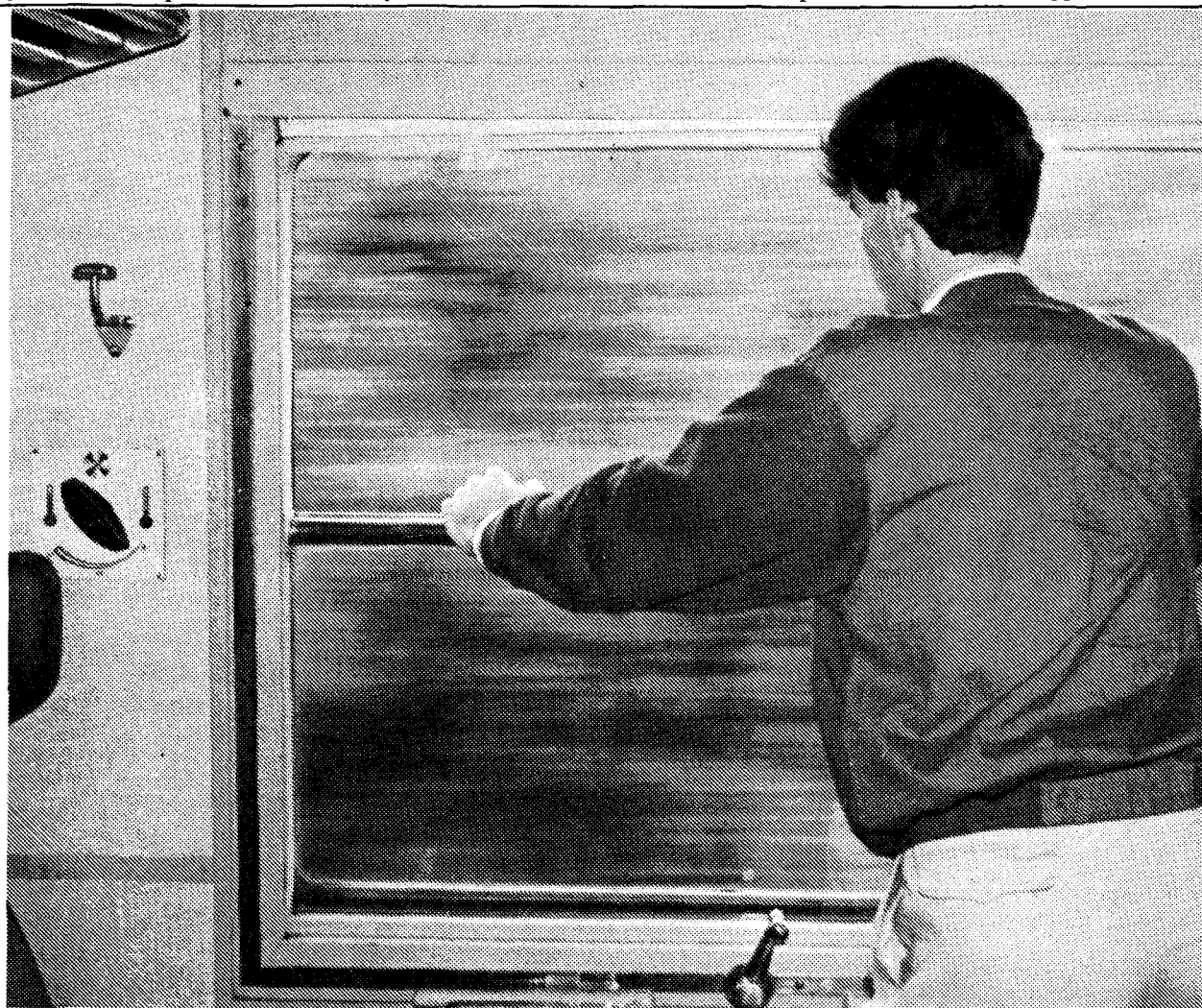
## IHC Chairman

**Ted George**



There are several qualities that an IHC Chairman should possess. He should have a clear understanding of Rotation, a working knowledge of the students and the houses, and experience in working with people.

continued on page 11

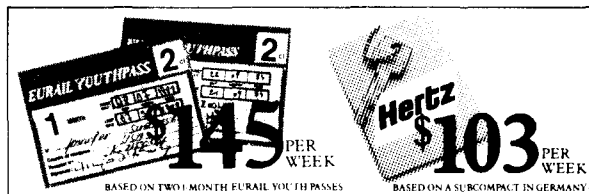


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# ASCIT Elections

from page 9

## IHC Chairman

I have been an undergraduate here for four years. During that time I have returned to Frosh Camp twice as an upperclass counsellor, and have been to Frosh Picks three times. I know the new Rotation rules, and I understand the problems that arise during the week of Rotation.

Since I have been here for four years, I have had the time to be active within one house and also to look beyond the house and into the wider spectrum of campus activities. I have met and worked in conjunction with people from all of the houses; gaining valuable experience and insight into the unique desires and problems facing Caltech undergraduates.

I will be finishing up my studies next year, and as such, I will be able to spend the time required to do the job right. So let me work for you as IHC Chairman, and vote for me on Monday. Thanks.

## Peter Ashcroft



Having served during the past year as president of Blacker House, I am very aware of the duties of the Interhouse Committee. This awareness, and my ability to work well with both the Master's Office and the Housing Office would allow me to serve well as Chairman of the Interhouse Committee.

I recognize the duties of the Interhouse Committee. Among other things, these include overseeing the rotation process during the first week of school, settling disagreements between the houses, and representing the interests of the houses to those organizations that deal with them, such as the administration, the housing office, etc. Are we going to get a new student center? What about rotation? I don't claim to have all the answers, but I do promise to work with the rest of the Interhouse Committee to represent the opinions of the students in those matters that apply to the housing system.

In conclusion, I've carefully considered the time commitment required to do well in this office, and have concluded that I can meet that obligation. I honestly consider myself to be the most qualified candidate for this position, and ask for your support in the coming election.

Thank you.  
"I would vote for this guy (if I were still alive)."

## John Rostykus



My name is John Rostykus and I'm running for IHC Chairman. Besides the duties of running rotation and chairing IHC meetings, the IHC Chairman must work with the Master's office and the Housing office when dealing with prob-

lems and improvements. Also, as a member of the ASCIT BOD, the Chairman must be able to stand behind the houses' best interests on ASCIT issues. As the ex-president of Lloyd House, I believe I am well-qualified for the job. During the past 2 years, I have been involved in Lloyd's frosh selections and I've gone to the final pick twice, so I am familiar with the mechanics involved. I have also worked with both the Housing Office and Food Service, making it easy to handle the Chairman's duties. Having been on the IHC for a year, I am familiar with several issues that will probably come up again this year, including Rotation rules/mechanics and next year's board contract, since we're currently looking for a new food service. The IHC Chairman is an important office; please take the time to vote for the person who can do the best job. Thank you.

## Rod Van Meter



I am running for IHC Chairman for a couple of reasons. I feel I could do a good job, and I care about the campus and the students on it.

I have been, over the past 2 1/2 years, an active member of two houses. I have served on faculty-student committees, participated in both intercollegiate and interhouse athletics, and organized RFs. Okay, so that last one may not be relevant, but so what?

I feel that the IHC Chairman should be someone who can deal comfortably with all seven houses, and I think I have adequately demonstrated that. I feel quite comfortable in all the houses.

In closing, I hope that you will look closely at the candidates, then vote for me.

## Secretary

## Felice F. Borisy



I am running for the office of Secretary of ASCIT and would like your votes at this Monday's election. Being ASCIT Secretary would give me a chance to do something for the school in return for what it has given me. I feel qualified for the office, know what it entails, and have had previous experience in other leadership positions, such as of the Undergraduate Women's Group and in my House.

In addition, next year there is going to be another faculty-student conference and there are some items I would like to see closely looked into, in particular; the humanities department's attitude towards foreign language classes, the over-emphasis of mathematically-oriented economics classes (Ec 11) in the social science department, and possible changes in freshman physics classes both in grading standards and placement options. Because of this, I would like to be on the BOD.

I own a typewriter, so please vote for me as your next ASCIT secretary. Thanks.

## Art Duval



I am running for ASCIT Secretary because I am interested in what ASCIT does, and I want to be a part of making it work. As Secretary, I would not only record and distribute minutes of Board of Directors Meetings, but would also have a vote on the BOD, helping to run ASCIT.

In the past year, I have worked on projects independently to improve student life at Caltech. I invested a great deal of time during third term to present a formal proposal to the IHC that would have given freshmen more influence in picking houses; the compromise that was reached is the only change in Rotation mechanics made in many years. This year, with other students, I met with the Master to provide input on the proposed undergraduate/graduate house.

These and other, smaller projects were rewarding, and removed the feeling of helplessness I used to have about student life at Caltech. But I feel I can contribute more by working within the system. I look forward to being involved with ASCIT projects to maintain and improve undergrad conditions, by providing input to the BOD, and doing the necessary work, secretarial and otherwise. If elected, I will work hard at these jobs, so please vote for me. Thank you.

## Lisa Cummings



My name is Lisa Cummings and I am running for ASCIT Secretary. I have been involved in house government, and this past year I have been Secretary of the Board of Control. I therefore have gained experience in taking minutes and in understanding the workings of committees. I would now like to extend my energies towards issues that concern the Caltech community as a whole. For these reasons, I would appreciate your vote for me as ASCIT Secretary on Monday. Thank you.

## Director at Large

## Eric Scharin



The primary responsibility of the freshman Director at Large is the publication of the Research Opportunities Handbook. I am experienced in the compilation of student publications and feel that I am capable of handling the job.

I would appreciate your support at the polls on Monday.

## David Parkinson



I am currently a member of the ASCIT BOD, and I am running for Director at Large so I can continue to pursue the projects that have been initiated during the past year. I would greatly appreciate your support on Monday. Thank you.

## Activities Director

## David Agabra



## Tom Aldcroft



## Simon Goldstein



## Jack Profit



We are running for the office of ASCIT Activity Director, i.e. the people who show the ASCIT Movie. Most of us have experience at showing the ASCIT Movie, and so can offer you consistently good movies with fewer interruptions. We will not compromise ourselves by getting package deals which often include worthless films, but rather pick and choose from among the best the studios have to offer. Also, unlike previous Directors, we will make no promises we can't keep. We think we can do the best job of Activity Director, and hope that you agree.

## Athletic Director

## Michael Keating



I am running for ASCIT Athletic Director. I have dealt extensively with the Caltech athletic department and am very accessible to athletes. Please vote for me on Monday.

## Academic Affairs

## Will Evans



I'm running for ASCIT Direc-

tor of Academic Affairs. I will continue the long-standing tradition of publishing a TQFR. I would appreciate your support on Monday. Thanks.

## ESC Chairman

## Robert Soderbery



I am interested in making Caltech an active campus. I think there should be not only wildly fun seven-house parties, but other activities as well. One activity every other week should be a minimum. I have volunteered work on the Caltech-Occidental party and attended this year's ESC meeting. I am willing to work for the Caltech student body.

I would appreciate your vote and your support.

## Tech Editor

## Matt Rowe



For the past two terms, I have been Entertainment Editor of *The California Tech* and author of the column "Buckaroo Reviews." With these contributions, I have tried to provide more variety and interest to a paper which seemed to need them. The response has been positive, and I would like to be able to try improvements on a larger scale.

*The California Tech* is a newspaper, but an editor must not lose sight of the fact that it is a student newspaper. In addition to reporting campus news of interest to students, I hope to place greater emphasis on student activities at Caltech. Entertainment and sports would be featured just as prominently, with the same emphasis on events at Caltech. Recognizing that even these elements are of little interest to some readers, I pledge never to cut the most popular features, "The Inside World" and *Bloom County*. Finally, I will be open to suggestions: anything submitted would be considered for publication, and any ideas for improving *The California Tech* would also be welcomed.

Besides, "No" can't type.

## No



I know, I'm not very popular around here. Every time I run for an office, I end up losing. If I win the first election, they reopen nominations and have another; if there's a runoff, I'm left off the ballots.

I've been trying for years to get involved, but no one seems to care. As Editor of *The California Tech*, I promise to abolish *Bloom County* in favor of a real American comic like *The Family Circus*. A conscientious Caltech student needs textbook reviews; I will provide them. Students want to know more about weasels; I will tell the truth. Nutrition information will be provided for all Servomation meals. Editorials will be entirely negative. Life bites the big one. I don't want your vote, anyway.

But I can type.



sports

Weekly Sports Calendar

Day	Date	Time	Sport	Opponent	Location
Sat.	2-9	8:00 am	Track	All Comer's Meet	Mt. San Antonio Col.
Sat.	2-9	10:00 am	Swimming	Occidental	Occidental (M/W)
Sat.	2-9	12 noon	Baseball	Christ College	Christ College (2)
Sat.	2-9	1:00 pm	Fencing	Cal State Fullerton	Caltech
Sat.	2-9	1:00 pm	Women's Tennis	Redlands	Redlands
Sat.	2-9	1:30 pm	Men's Tennis	Christ College	Christ College
Sat.	2-9	6:00 pm	Basketball (JV)	Redlands	Redlands
Sat.	2-9	8:00 pm	Basketball (Varsity)	Redlands	Redlands
Sun.	2-10	3:00 pm	Women's Soccer	Our Gang	Caltech
Tue.	2-12	3:00 pm	Baseball	Pacific Coast Baptist Bible	Caltech
Tue.	2-12	3:00 pm	Men's Tennis	Point Loma	Caltech
Wed.	2-13	3:00 pm	Women's Tennis	Occidental	Caltech
Wed.	2-13	6:00 pm	Basketball (JV)	Claremont-Mudd	Caltech
Wed.	2-13	7:30 pm	Wrestling	La Verne	La Verne
Wed.	2-13	8:00 pm	Basketball (Varsity)	Claremont-Mudd	Caltech

Varsity B-Ball Loses To Whittier and Occidental

by Stu Prime

Despite playing good, solid basketball, the Caltech basketball team has been struggling through league competition. Losses this week to Whittier and Oxy left Caltech in 6th place, ahead only of LaVerne.

Against a much taller Whittier team, Caltech tumbled in perhaps the best game of the year. Center Brett Bush dominated the boards and Z sank some long range jumpers down the stretch.

Right now, the one thing that is

plaguing Caltech the most is fouls. If Caltech could keep Helgren, Bush and Ed in for a full game, they would have serious chance to beat some of the teams in the league.

It should be pointed out that Bill Gustafson's points to fouls ratio record set last year isn't in danger, although Bill himself gave it a good try against Oxy.

I should also say that Werntz was hotter 'n a possum's belly in an Oklahoma summer against Oxy. He's got the weight on me so I don't want him angry.

JV Basketball Plays For Pride?

by Sam Duncan

As the end of the season comes closer, the JV seem to show less and less enthusiasm in each successive game. In part, this lack of spirit is understandable if one looks at their record. They haven't come close to winning even a single game, and it is disheartening to go out time and again as lambs to the slaughter. No one can get excited about losing by a fifty point

margin, but still this does not excuse the apathy seen in many of the players. It is acceptable to lose if one has done his best, but there is no reason not to try.

Wednesday's game against Occidental showed the lack of enthusiasm acutely. The team was sluggish and bumbling and discouraging to watch. Several players were missing or impaired because of illness and the rest seemed dead on their feet, as if

they didn't really want to be playing. The result was exactly as one would expect; our team lost by a wide, wide margin.

If we look at the situation realistically, the odds of a win are slim, and so the team must try for the small victory of playing the decent basketball of which they're capable with everything they've got. Otherwise, the apathetic players of the team are right and nothing matters.

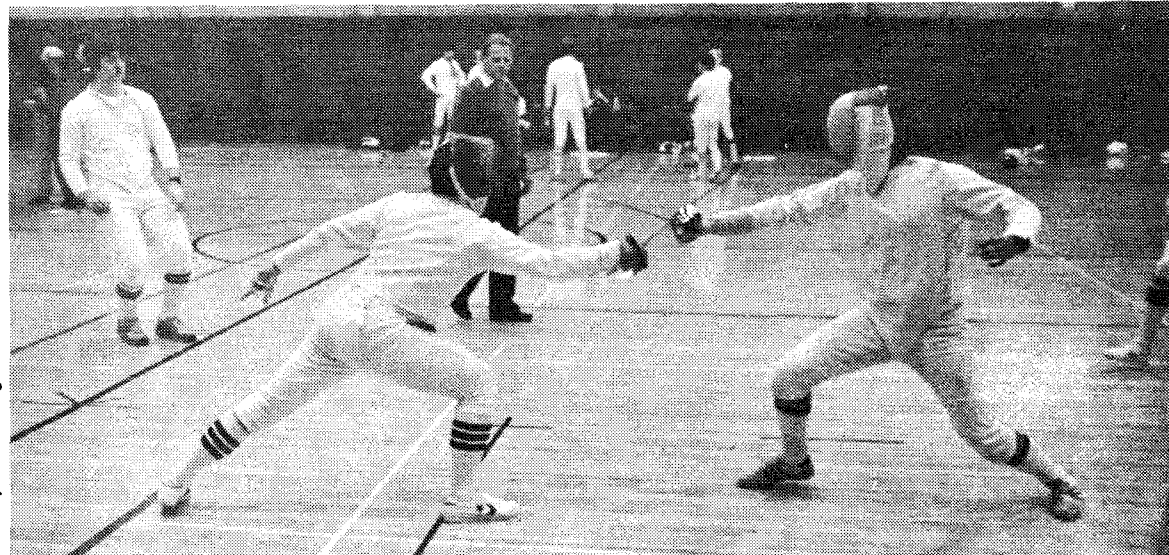


photo by Ron Gidseg

Chien-Wei Han (on left) makes a successful hit

Fencers go 1 - 3 against UCSD

by Perry Riposte

Last Saturday at home the Caltech fencing team met U. C. San Diego. The team had a tough match and made a good effort.

The women's foil team lost 13-3. Phyllis Li won two bouts by making good lunges and parries. She did well with a weak ankle. Janice Peters had one win. She still remembered the basic movements

in fencing after a period of respite. Susan Ridgeway did not win any but gave her opponents a difficult time.

The men's foil team fenced an experienced team and lost 8-1. The only scorer was Craig Keller. He executed his actions quickly and was able to get touches. Scott Grossman and Alex Gilman made a good effort to win. They made

good parries and ripostes and were able to get some touches against their opponents.

The men's epee team also met an experienced team and lost 9-0. The members were Andrew O'Dea, Joe Beckenbach, and Thomas Luke. Even though there was no win, all of them made a good showing for they are all first-year fencers. O'Dea, Beckenbach, and Luke kept good distances and made attempts to hit their opponents' wrists.

Breaking the losing streak, the men's saber team had a victory. The final score was 5-4. Both opposing teams were evenly matched, and the saber team managed to get a lead and win. Scott Lewicki won all three of his bouts. He was happy that he defeated an opponent who ranked 6th in the league. Chien-Wei Han won two. Matt Himmelstein was quick on his feet. Jeff Greason did effective beat attacks.

This coming Saturday the Caltech fencing team is going to meet Cal State Fullerton and San Diego State University. The matches will start at 1:00 pm in the gym.

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# 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.

## GM Scholarship

This year two sophomores will be selected as General Motors Scholars: an electrical engineer and a mechanical engineer. The General Motors Scholarship plan is designed to continue the corporation's support of higher education by providing scholarship support to outstanding students (primarily in engineering) at selected educational institutions.

Students are selected in the spring of their sophomore year and awards are made for the junior year. The awards are continued for the senior year, provided the student continues to meet the academic standards established by the Institute, and completes the duties and responsibilities of the GM summer internship satisfactorily.

Tuition, fees and a \$200 stipend will be paid on behalf of each scholar, without regard for financial need. Interested sophomores can pick up an information sheet and an application at the Financial Aid Office, room 10 Parsons-Gates. Completed applications will be due February 22.

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If you would like to place an ad in the classified section of the California Tech please send your ad along with your name, address, and telephone number to: The Tech, 107-51 Caltech, Pasadena CA 91125. Ads must be received by Tuesday before desired publication. Ads cost \$.40/line with a \$2.00 min. and prepayment is required.

## Noland Scholarships

The Dean's Office is currently accepting nominations of undergraduates for the Robert L. Noland Leadership Scholarships, which were established by Ametek Corporation to honor their president, a Caltech alumnus.

Outstanding leadership by Caltech students can take many forms, such as: unusual effectiveness as an office holder in student organizations; inspiration of others to take constructive actions; or informal activities that help individuals to fulfill their capabilities.

Awards of \$1,500 may be made to current sophomores, juniors or seniors who have demonstrated outstanding leadership. Please consider all students without regard to nationality, religion, gender, color, financial status or scholastic achievement.

If you know of any students who should be considered for these awards, or would like to be considered yourself, please send a nomination to the Dean's Office, 102 Parsons-Gates, by Wednesday, February 13th.

## Free Film Series

"How Should We Then Live? The Rise and Decline of Western Thought and Culture" is a 10-episode documentary on the cultural, scientific, philosophic, and religious development of Western man and his future directions. It is produced and narrated by Dr. Francis Schaeffer, theologian and philosopher, who has been called the foremost evangelical Christian thinker of our day. Each 30-minute episode will be shown on a Thursday at 12:15 in Baxter Lecture Hall, beginning with "The Roman Age" on February 14 and continuing each Thursday except for finals week and Spring break. The other nine episodes are respectively "The Middle Ages," "The Renaissance," "The Reformation," "The Revolutionary Age," "The Scientific Age," "The Age of Non-Reason," "The Age of Fragmentation," "The Age of Personal Peace and Affluence," and "Final Choice."

Dr. Schaeffer's master theme may be summarized in the form of a controlled experiment:

1) Take the history of the West since the time of the Romans. Consider what world view gave strength to the Christians of the Roman era. This strength rested on God's being an infinite-personal God and on his speaking in the Old Testament, in the life and teaching of Jesus, and in the then-growing New Testament.

2) Examine the impact of this world view on men's lives and hence on the form and conduct of society as a whole.

3) Withdraw this world view and see what changes take place in the life of the individual and society. In other words, look at society in the past century or two when Christian influence has been fast waning.

The series is presented by Caltech Christian Fellowship. For further information call Paul Dunlap, x4670.

## Attention Seniors

This is the last and final call for senior pictures. Turn your pictures in with your name, major, and hometown to Glen Crawford (Ruddock) or mail them to "Big T", 107-51 Caltech.

## OWC Meeting

The Organization for Women at Caltech will have a general meeting on Tuesday, February 12 at noon in Winnett Lounge. There will be a report on pregnancy and abortion benefits for students and on the Women's Advocate. In addition, the topics of whether the Capra Ranch retreat should include male members and whether the location of the OWC office renders it useless will be discussed. The meeting is open to everyone.

## BOC Rep at Large

The Board of Control will soon select two representatives at large. Anyone interested should sign up in any of the student houses. Signup sheets will be up from February 11th to 5:00 pm February 14th. Interviews will be held February 17th (first round) and February 18th (second round).

## Celebrate Shabbat

Come enjoy a delicious potluck dinner and a brief service with Caltech and CSLA Hillels tonight (Feb. 8) at 6:30 pm in the Red Door Cafe (2nd floor Winnett). See friends, meet people, eat and sing. All welcome. Please bring a dairy/vege dish or drinks if possible. Any questions? Contact Myra at 792-8959 or through the Caltech Y office.

## Orchestra Tonight

The Occidental-Caltech Symphony Orchestra will present its second concert of the season tonight at 8:30 pm in Ramo Auditorium. The program will consist of the Prelude to Wagner's *Meistersinger von Nurnberg*, an entr'acte from Schubert's *Rosamunde*, and Beethoven's *Eroica* Symphony (No.3).

The orchestra, directed by Dr. Allen Gross, is composed of staff, students, and faculty from both schools; it has over 60 members, including around 20 from Caltech and JPL. The concert is sponsored by the Office of Student Affairs; it is free and open to the public.

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## Human Rights

Voice your support of personal freedom and write a letter on behalf of the refusenik Khasan family this Sunday, Feb. 10 at 5:30 pm at the Red Door Cafe. Munch a delectable deli dinner while writing for only \$3.00. Letter writing materials provided by Hillel. Questions? Call Myra at 792-8589 or x6163.

## Madwoman Trials

Tryouts for parts in *The Madwoman of Chaillot*, a play by Jean Giraudoux, will be held this Saturday and Sunday, February 9 and 10, from 2-6 pm in Winnett Lounge. Performances will be April 12, 13, 14, 19, 20 and 21 in Ramo Auditorium.

## Bridge Club

The Bridge Club meets Mondays at 7:00 pm in the Red Door Cafe. All welcome (undergrads, grads, faculty and staff). A tournament is being planned. For more information call Jeffrey at x4744.

## Bored?

Are you bored, run-down, out-of-sorts, or just plain sick to death of the sight of Caltech campus? If so, there is a recourse in your hour of need. Come up to the Caltech Y office, upstairs in Winnett Student Center, and talk to the nice people there. They can give you ideas and sometimes assistance for all sorts of activities in the LA area, both within and without walking distance. There is a famous map of the local Pasadena area containing everything of interest that is within walking distance (you *have* heard about it, haven't you?), and many pamphlets containing information about the more distant parts of the world, such as Westwood, etc. Come and get a copy, free!

## PA 15 Meeting

There will be a meeting of the PA 15 class, which is the student newspaper, at 12:15 pm today in 127 Baxter.

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