

When are you going
to make her
an honest woman?

The CALIFORNIA Tech

When you
make him
an honest man!

Volume LXXVII

Pasadena, California, Friday, February 6, 1976

Number 16

Frosh Party Kudos

by Bart Croes
and Jim Westover

As you probably know there was a CIT Frosh Class Bash in Dabney Hall last Friday night. In an attempt to provide the freshmen with a diversion from their ever-present studies, a few gung-ho but responsible students collected to produce the first CITFC event of the year. The favorable response indicated the value of such a time-consuming effort.

Though it could not have been called a smashing success, it did achieve one of its primary objectives; rumor had it that many intoxicated frosh types were seen staggering to their respective holes at quite a late hour (one was said to have found his home atop a toilet seat and unfortunately wasn't discovered until the next morning). General consensus stated that the punch was "great" (thanks for the recipe, Twat!), the music was good, the sound was reasonable (after a few technical difficulties were overcome), BUT that there could have been more of the immortal Kunght (only one frosh invited, conquered, and scored). In the other hand, the women felt that the avid attention was a boost to their ego.

We were a bit disappointed in

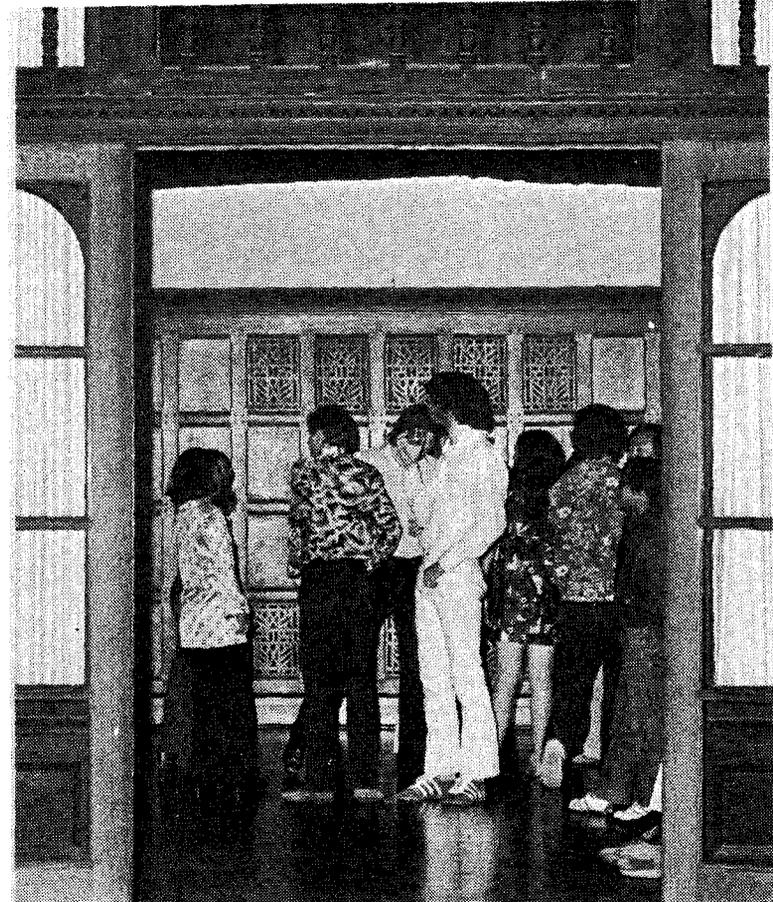
Food Contract Reassessment

by Greenie

Seasons come, and seasons go. The child that was, becomes an adult. Civilizations grow and crumble to forgotten dust. The leaves that are green, turn to brown. We live in a changing world. Nothing is static. They say that all things come to he who waits...

And so, in the natural order of things, even a food service runs out. The time has come for all good Techers to come to the aid of the party and choose a food service for the next few years.

In the past decade, Caltech has had many food services. The Institute even attempted to run its own, from 1966 to 1971. Not only did the Institute find itself up against all the same problems that any food service encounters here, but in addition lacked the expertise to begin dealing with them. According to R. W. Gang, Master of Dining Halls, the Institute also suffered a constant brain drain to larger companies which were able to pay more and promise better scope. After the Institute gave up, a period of experimenting followed, including the time two years ago when no board contract existed.



Suave, sophisticated frosh in the midst of a rip-roaring CITFC production. Note debonair "Boy I want to get laid" attitude. Thus last Friday passed away... Photo by A. Kellner

that a couple of surly upperclassmen took it to mind to demonstrate their lack of social virility by spraying a fire-extinguisher from atop the balcony. This rather obnoxious feat was promptly answered by the subsequent act of giving one offender a taste of the sobering waters of Baxter pond. In general, the unfrosh types were rather subtle in their search for a

Continued on Page Six

Greyhound-Prophet Food Management, Inc. received the first contract following this, and renewed the contract for the present year.

This contract has now run out, and a recent survey of the student body indicated a desire to investigate new food service companies, without indicating dissatisfaction with Greyhound-Prophet.

The process of investigating new companies, according to Mr. Gang, proceeds as follows: certain companies are first invited to submit bids. If they indicate an interest, an appointment is set up for them to examine such things as the physical plant, the special arrangements (such as waited meals), and to acquire information about special problems, and the sorts of solutions imposed by the current services. The companies then submit bids.

According to Gang, there are several facets to accepting a bid. The first is, of course, the amount of the bid. However, the lowest bid is not always accepted. One factor is the size of the company. Is it a sad but true fact that most companies lose

Continued on Page Five

IAC Denies LaBelle Tenure

by C.Y. Achmet

Assistant English Professor Jenijoy LaBelle was denied tenure by the Institute Administrative Council last Saturday despite the unanimous support of the literature faculty. LaBelle conducted a prolonged fight for tenure beginning in the fall of 1974, when a committee of tenured literature faculty voted unanimously in favor of her being tenured. This recommendation was forwarded to a divisional committee appointed by Dr. Huttenback which voted five to one against tenure. The lone dissenting vote came from a member of the English department. *One of the prime reasons cited for not tenuring was the lack of a book-length publication.* The Institute Administrative Council followed the recommendation of the divisional committee and denied tenure.

LaBelle subsequently published a book and demanded reconsideration of her position. Despite his vigorous protests, the Administration finally cornered Huttenback and forced him to acquiesce to the reconsideration. Outside experts were called in to evaluate LaBelle's publications for academic merit. The Tech is unaware of the results of these evaluations, but once they were combined with the information generated by the previous Institute committees, the Institute Administrative Council took last Saturday's vote of *no tenure*.

FINANCIAL AID DOWN

by Al Drehman

Financial aid for next year is down. One can expect to receive over two thousand dollars of aid in the form of a job or loan, with less gift aid. Why so much so suddenly? It is simple; the money ran out.

Last year there was less than \$640,000 available for undergraduate gift aid. Unfortunately, over \$750,000 was spent. This year there is only \$630,000 available, due partially to the overexpenditure of some \$110,000 and economic considerations. As most of you know, gift aid comes from the interest of an endowment. When one overspends, part of the principal is lost and there is a natural decrease in the next year's interest. For this reason, the Financial Aid Committee does not plan to overspend this year. Although the cost of attending Tech is up \$520 for next year, the financial aid package reflects

this. You therefore do not have to worry about getting squeezed from both sides.

Self Help

Self help is the new name for what was formerly called loan aid, with the exception that it also includes on campus jobs during the school year. Actually this is not that much of a change, as the Federal Government has already told Caltech to count on-campus jobs as part of a student's financial resources. This year the self help was \$1,200 for most freshmen and \$1,300 for upperclassmen. Next year's self help has not been finalized yet, but it does have an upper bound of \$2,000 for freshmen and \$2,400 for upperclassmen. The latter figures are the present goals for the next few years—assuming the economy does not play any more tricks on Caltech's finances.

There is also a discrepancy in the amount of aid foreign and

SSP (summer studies program) students have received in the past with respect to the rest of the student body. This adds further complications to next year's financial aid program. The problem lies mainly in correcting these discrepancies without putting a sudden burden on a few students.

Hope!

A sudden increase from \$1,300 to \$2,400 in loan and/or work is considered by many to be too harsh a burden to be imposed in a single year. Therefore proposals are being made which, if approved, would substantially decrease the financial shock for present students.

More information will be available after next week's faculty meeting where these proposals will be discussed. Over the next two weeks you can expect to hear more about financial aid than you have heard over the last two years.

Security Packaged

by Steve Oualline

Most of the thefts at Caltech are from unlocked rooms and cars. A thief will walk along the halls of a building... He will poke his head in a door to see if anyone is there. If the room is empty he will make off with anything that looks valuable. The most common item stolen is pocket calculators. In December over \$3,000 worth of calculators were stolen.

The simplest way to keep things from getting stolen is to keep them out of sight. Also keep your room locked. The student houses are especially

vulnerable. Many students invite guests to their room and it is easy for a thief to prowl the halls without suspicion.

It also helps to register your bikes. Caltech security will stop any non-Caltech type riding a bike with a Caltech registration.

Many times a thief will look into an office. If there is someone there he will say "Whoops, wrong office." and leave. Caltech's plainclothes patrolman has done this many times to see if anyone asks him who he is or what he is doing in the building. Most of the time he goes *unchallenged*.

Armenian
Barbershop?

The Caltech Varsity Quartet will be providing the live entertainment at Burger Continental this weekend, Saturday and Sunday at 6:30 and 7:30. Ragtime piano digitation will augment the classic Armenian Barbershop melodies, so come on down and try Stephen Foster a la shish kebob!

Nominate
Yourself

The ASCIT General Elections will be held on Tuesday, Feb. 24, 1976, so go sign yourself up on Flora's door this very minute, and get yourself elected something.

Parry! Riposte!

The Editorials



While having a conversation with one of those 4+ GPAs (I'll never if you're a *Tech* Editor) it struck me that this piece is lacking in humility. To wit, the exchange:

"You see, troll, without humility you don't know what's really happening in the world. You have no concept as to the drives and desires of the proles around you. Sitting in your lofty ivory tower of science you have come to disdain the common man who made you what you are. Think of it as the only reason you're above average is because there are millions who are below average. It wasn't competence that made you what you are today, it was the incompetence of those around you. You should be grateful to them, you should bow down before them and be eternally grateful at they are incompetent. But ah, you ingrate, you don't have the guts to do it. You couldn't walk out into that hallway, kiss the floor and be humble before the entire world even if a physics-crazed Bengal tiger was urging you to..."

"Cease! Desist! I have as much respect for my fellow man as the next fellow does. I can identify with the common man despite my seeming aloofness."

"An example! Let us suppose a man's life ambition was to be a grease-pit monkey and he finally became one. Would you have respect for that man?"

"Well, as long as he was a good grease-pit monkey—"

"The point exactly! Why must he be good to win your respect? Can you not accord him respect simply because he has attained happiness in life? No! No! You with your GPA and your girl must seek excellence in performance, you must impose your standards, which is why you will never identify with the common men who pay the taxes that fund your grants and run the stores and provide the services you need far more than they need science."

"What can I do to demonstrate my point? Must I go live in the sewers?"

"Yes, yes. Live in the sewers, live in the trash and excrement of common men. Eat from the table scraps of others and sleep in the dank and damp alleys of the Latin Quarter. Then, perhaps, you might acquire a taste, an appreciation, of what makes you what you are. To know science you must do it, and to know man you must live. Live not as a superior, but as an equal or less to find the true humility we all need."

- Sandy McCorquodale

STUDENT SECURITY PRAISED

Last Monday, the stolen car of a member of the Caltech Community was recovered. Hardly noteworthy, except for the fact that a member of the Caltech Student Security Program was instrumental in the recovery. The car was reported missing on January ninth, and managed to elude the police until the owner was notified by Caltech Security that it was parked in one of our parking lots.

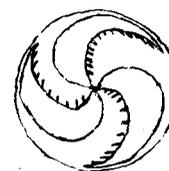
While on duty checking parking lots for unlocked cars last Saturday, Cadets Carl J Lydick and Steven D. Smith noted the car in question sitting in a parking lot with its door unlocked. A routine mention of it was made, and on Monday the owner was notified that it is bad practice to leave one's car unlocked and unattended at night, even at Caltech.

The owner was, of course, surprised to find that her car had been found in one piece, let alone sitting in a Tech parking lot. The PPD was called in to take photographs and fingerprints of the car, and the car returned to its rightful owner.

Once again the worth of unit 104 (the students) has been proven, and starting in the near future they will be given almost 50% more chances to prove it. On weekends, (Friday, Saturday, and Sunday) two more students will be added to the patrols, freeing the regular security people to pursue more worthwhile tasks than checking lights and such, (e.g., stakeouts, more frequent patrols of the campus, etc.) and possibly reducing the number and magnitude of thefts on campus, both from the institute and from the students.

The Third Wing

\$ For Justice



by Nick Smith

In the last few issues of *The Tech*, there has been considerable debate going on concerning the topic of Criminal Rehabilitation vs Criminal Punishment. As it happens, there was a case in Los Angeles just recently that brought before the public just this problem.

The case in itself was a simple one: two elderly women had died as a result of an accident caused by a man who was, at least chemically and legally, drunk. At the very least, this is criminal manslaughter.

The killer may never go to jail, according to his sentence as handed down by the judge.

As with almost any situation, there are at least two sides to this case. The man who drove his car and killed those two women was a well-respected man in Los Angeles, in fact the president of one of the major private colleges in the area. He had made clear his repentance and his willingness to put his efforts toward helping others in whatever manner the judge might wish. As it happens, the judge ordered him to work at a facility attempting to prevent more accidents caused by drunk drivers. The judge seemed satisfied that there will be no repetition of the dangerous behavior that caused two deaths, and hoped that a constructive solution might be found. Oh yes, the college president cannot drive in California for at least four years, as well.

While this is a very nice example of constructive rehabilitation at work, there is another thing to consider: this same college president had been previously arrested for drunk driving. In other words, this wasn't just a one-time thing. He knew what he was doing when he got into that car that night those women died. Until he killed someone, he hadn't cared enough to stop.

The question is this: is it better to rehabilitate this upright citizen, this benefactor of the community, and use his talents

to help others; or should he be locked up and the key thrown away, for the murderer he also is. The judge in the case stated, at the sentencing, that it was a hard decision to make, and that the final decision on whether the man would indeed go to prison would be stayed for several months, so that his works might be evaluated. Will he save someone else from making the same fatal mistake, or will he "slip" and perhaps cause other deaths. Only time will tell, and pity the judge who had to render such a decision. To spare Jekyll or to punish Hyde?

Bear in mind this one further thing: what would have been his decision had the killer been a common man, possibly black or chicano. Would he have been so lenient? Would a man of lesser standing in the community have been given a chance to pay for his crime in this fashion? Whether the decision to forgive rather than punish is right or wrong, shouldn't the chance be the same for all?

Of course it is essential to prevent a criminal from repeating his crimes! Imprisoning them is getting almost as expensive as rehabilitating them, so it's not really a matter of money any more. It costs around \$7000 a year to keep a man in prison. The simplest solution, of course, is simply an "off with their heads" approach, dispensing justice and vengeance equally with glee. Somehow, the average man (always a little larcenous at heart) probably wouldn't like that idea, since it might apply to him if he cheated on his income tax. So the question is, how to prevent the crimes. There are undoubtedly some people who will always have to be incarcerated, no matter what the society. There are others who can be led out of the crime cycle. Regrettably, both things cost money, and there you have the key. Nobody wants to spend it, but until it's spent, crime will continue to rampage.

Cry To Relieve Oppressed Letter

I would like to use this opportunity to beg the CIT student body to rise in protest versus the horrible oppression unwittingly foisted upon one of our most resolute and long-suffering helpers, to wit, the letter-friendly vowel, in use for roughly 3000 summers by men of diverse cultures, now deserves respite from such over-use. I propose we honor this over-worked vowel with its own week, observed in one of the following months: June, July, September, October, November or December. During this week of joyous revelry in honor of this wonderful vowel, no letter *a* would be forced to serve in our documents, letters or home-work. Meetings to discuss CIT *a* week will be held in clubroom 1, this coming 30th. Concerned students will be welcomed.

Sincerely Yours,
D. Petrovich
President, CIT free *a* committee

The CALIFORNIA Tech

Friday, February 6, 1976
Volume LXXVII Number 16

Published weekly except during examination and vacation periods by the Associated Students of the California Institute of Technology, Incorporated. The opinions expressed in all articles are strictly those of the authors and do not necessarily reflect the views of the editors or of the corporation. All contributions become the property of *The California Tech*.

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The California Tech publications offices are located in Winnet Center (105-51), California Institute of Technology, Pasadena CA 91125. Telephone: 795-6811 x2154. Printed by News-Type Service, 1506 Gardena Avenue, Glendale CA 91209. Second Class postage paid at Pasadena, California.

Subscriptions \$1.50 per term
..... \$4.00 per year
Life Subscription \$100

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THE ASCIT FRIDAY NIGHT MOVIE

THIS IS IT

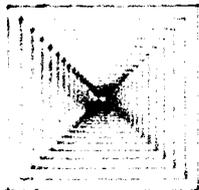
Dr. STRANGELOVE

7:30 p.m. & 9:30 p.m.
in Baxter Lecture Hall

Admission: 50¢—ASCIT members and their guests; \$1.00—anyone else

NEXT WEEK:
DARK STAR

playa brava On Franking



Leal Nets Dreyfuss \$

by Ngapuhi

law a provision limiting the amount of money a candidate could spend in an election. For senators, this limit was less than thirteen cents per constituent—the cost of a first-class letter.

In this light, my receipt of a printed "letter" carrying Tunney's frank is most interesting. The letter purportedly was to keep his constituents informed on the senator's controversial stand on Angola. Considering the amount of press he has received, anyone not knowing Tunney's position on this matter would have to be illiterate. Disregarding the validity of Tunney's reasoning in this matter and the propriety of usurping the authority of the State Department (A front-page article in *The London Times* last week reported Tunney's "foreign affairs advisor" was conferring with high officials of the Russian and Cuban backed MPLA in Luanda), it is heartening that Tunney is finally showing an interest in his long-neglected constituents out here on the West Coast. No-one

can remember receiving one of these letters in the post during the previous five years Tunney has been in office. One suspects the best of motives in his conscientiousness. After all it is an election year and the Jr. Senator from California is up for reelection.

When one considers the fact that until the recent Court ruling Senatorial candidates were so limited in campaign spending one begins to wonder if the current campaign laws aren't unfairly biased in favor of the men who wrote them—the incumbents. And in a year, when the US Postal Service will lose a billion dollars despite the first class rate increase, we can surely do without franked junk mail. In the interests of fair elections it would only be proper to deny all incumbents their franking privileges for obviously political mail within a year of the expiration of their term. And one hopes Senator Tunney will stop using his frank to send me junk political flyers.

L. Gary Leal, associate professor of chemical engineering here at Caltech, is the recipient of a teacher-scholar grant from the Camille and Henry Dreyfuss Foundation. Leal is one of 15 young faculty members who were chosen for this honor from among 112 candidates at universities throughout the country.

The recipients, in chemistry, biochemistry, and chemical engineering, were nominated by their institutions as outstanding teachers and scholars.

A member of the Caltech faculty since 1970 (when he was 26), Leal was nominated for his fundamental research on the mechanics of particles in fluids. Among other projects, he has been involved in developing mathematical models that can be used to study the way atmospheric contaminants or heat wastes are dispersed.

The grant, totalling \$35,000, will be used at Leal's discretion over a five-year period in connection with his teaching and research activities. The Dreyfus teacher-scholar grant program has been in existence since 1970, and Caltech is the only institution with a recipient each year. Last year's honoree was Robert W. Vaughan, associate professor of chemical engineering.

"Tomorrow's energy will be provided through scientific and engineering advances on many fronts," Brown said. "Caltech scientists and engineers—and their students—will be instrumental in these advances."

Ohshima Correction

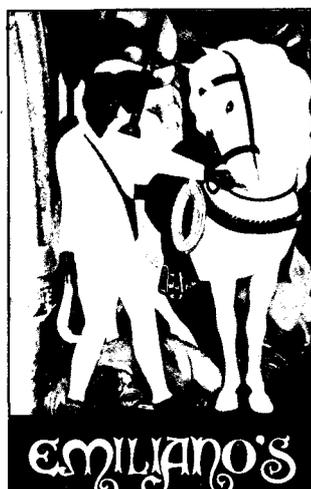
Sirs:

In his article in the last *California Tech* David Callaway stated "For the past eight years he [Mr. Ohshima] has also taught karate at Caltech."

I believe Mr. Ohshima first instructed students here at Caltech during the academic year 1957-58; further, except for a few years in the early 60's, I believe he has instructed Caltech students during every academic year since 1957-58 up until the present.

—Tim Rentsch

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Kubrick Arrives!

This weekend's ASCIT film will be *Dr. Strangelove*, to be screened at 7:30 and 9:30 tonight in Baxter Lecture Hall of the Humanities. There exists a void in Cinematech's film series this Saturday, due to midterms, but this abhorred vacuum will be filled by the showing of *Things to Come* by the JPL Space Exploration Post (that is, the JPL subsidized Explorer Scout organization of future NASA administrators and computer trolls). That film is rumored or alleged to be shown tomorrow night at seven and nine o'clock in Baxter.

Dr. Strangelove or; How I Learned to Stop Worrying and Love the Bomb (1964) was the seminal work in a meteoric series of black comedies and farces dealing with the insecurities and nameless fears underlying life in the Sixties. From this film one can trace the development of dark humor into drama and tragedy, leading to such major recent cinematic works as *Bonnie and Clyde* and *Blow-Up*. *Dr. Strangelove* was yet another unorthodox and innovative creation by producer-director Stanley Kubrick; based on a cold war novel by Peter George, *Red Alert*, the comedic script was developed by Kubrick, George,

and Terry Southern.

As technologists, Teachers should be familiar with *Strangelove* as an example of popular anti-technological literature which exploits and develops some of the stereotypes and characterizations lurking in the minds of the neurotic post-atomic generations. Plot: a crazed Bircher air force general (Sterling Hayden) unleashes the might of his SAC bomber unit on an unauthorized mission to bomb the Russians back to the Stone Age; by indirection and luck, this comes to the attention of the President (Peter Sellers) and the assembled powers of the Pentagon. Most of the B-52's of the unit are recalled, but one single bomber, captained by an intrepid, patriotic Texan, continues on its mission.

Dr. Strangelove is still an enormously funny film, though its bitterness has perhaps diminished as the audiences move out of the immediacy of the cold war into the relative placor of detente. Much of the humor lies in characterization, which is well performed by a talented cast. Peter Sellers excels in his three roles: the neurasthenic British aide to the demented general; the befuddled, Stevenson-ish President; and the diabolical German

scientist Dr. Strangelove, who is, among this bizarre set of characters, the most well-adapted to a world of impending nuclear holocaust. George C. Scott delivers a brash and dynamic performance as a shallow, gung-ho Pentagon man, displaying the asinine jingoism of what was once the typical American hero of fifties war films. The black-and-white camerawork serves quite adequately to depict a world of crazed stereotypes, drawn from cold war fantasies and newspaper headlines. Kubrick used a bizarre taste towards incongruity in selecting the musical score, in order to accentuate the sick absurdity of the manner in which the cold war world is structured. Technical work in the film is faultless; it is rumored that the Pentagon instigated security checks on Kubrick and other workers on *Dr. Strangelove* because of the

very accurate portrayal of the interiors of the B-52 and of the operation of the code box and fail-safe procedures. And the comic sequences are played with enormous skill and absurdity; such masterful scenes will long be remembered, such as the sequence wherein Sellers as the British aide can only save the world from devastation if he can talk an Army colonel into machine-gunning a Coke machine. The interplay of farce and black social comment has made *Dr. Strangelove* into the *Gulliver's Travels* of our recent cinematic past.

Things to Come is something of an idealistic turnabout on *Dr. Strangelove*. It was made prior to World War Two, with the scriptwriting of George Orwell, and displays the mildly optimistic idealism of British socialists of that time. One might say it is a science-fiction film, and though it is structured thus, *Things to Come* emerges as a social blueprint for a sublime existence of mankind based on love of science rather than the structures of social order.

There are three major prophesies of the film: first, the war

to end all wars, wherein man exploits the most pernicious devices of perverted technology to destroy his brothers. Second, an age of barbarism and superstition plunges civilization into a primitive existence with a barter economy, warlord social structure, and the fear of the plague. Finally, the age of the "Airmen", a glorious and mighty brotherhood of brilliant scientists (oho!), brings mankind to salvation and fruition, to the ultimate civilization of technology for technology's sake, and to the conquest of the universe. This is quite a grand scope for a film to cover.

Things to Come is a fascinating look into the way people dreamed, before the existence of atomic warfare and other recent phenomena which have tended to put science and technology into disrepute as the saviors of mankind. It was a good dream. Much of it, especially the final sequences of Airmen striving for the stars, is just silly to modern viewers, but it would still be worth seeing, for an audience of modern technologists to sample the idealism of a younger age.

—Lewis Hashimoto

Schmaltza Italiana Sucks

by Dick Beatty

Sunny Italy, Rosemead at San Pasqual, Pasadena.

Sunny Italy is one of the many average Italian restaurants common in the Los Angeles area. One can have a pleasant meal here but there is nothing outstanding at the place.

The dining room is not overly large and would be very personal were it not so dark that one must rely on memory to know who else is in your party. The decor is a combination of *Schmaltza Italiana* and Early Sidewalk Trattoria. It looks more like a living room than a restaurant (which is pleasant) but things just don't fit. Beware of

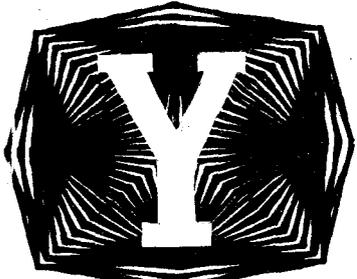
the isolated corner booths; diners in these cardboard caverns disappear from sight and are soon nearly forgotten by the staff. While this may be desirable at times, it is frustrating to be ignored by the same waitress who was responsible for concealing you.

The food is the average American attempt at synthesizing Italian cuisine, and comes off no better. The pizzas lack character or identity, (one wonders how noble tomato sauce on toast can be in the first place) while the spaghetti variations turn out rather trite and undistinguished. The meatballs are a dead ringer

for the carnal spheres offered up by food service (just last Tuesday, in fact.) Undergrads on board contract can make their own assessment on this item. The salad and bread are equally conventional; the minestrone soup elucidated no comment from the usually reliable source.

That about says it for the *Sunny Italy*; it's the average local Italian restaurant. Dinners are neither cheap nor expensive at \$4.00 for entrees, soup or salad and bread. SI is satisfactory although not exceptional, perfectly acceptable for the Teacher although not the best choice for the money.

CALTECH



Programs

We're going to bring you living proof that it's possible to graduate from Caltech and go on to be a success in something other than science. Next Monday and Tuesday distinguished alumnus Joseph Rhodes, Jr., of the class of '69, will be on campus to talk to students interested in politics and government. He is currently a member of the Pennsylvania House of Representatives, and has been very active in state and national government since receiving his B.S. degree in history. While at Caltech, he was the only black ASCIT president so far and the only one to hold office for two consecutive years.

You are welcome to meet The

Honorable Mr. Rhodes on Monday at 4 p.m. in Winnett Lounge, when he'll be discussing "The Unscientific Nature of Criminal Justice". In addition Tuesday at noon in the Y lounge he'll be leading an open discussion, and that evening at 8 p.m. in Winnett Lounge there will be a third talk, entitled "Political Activism in an Age of Indifference". Don't miss this opportunity to talk about the Real World with a Techer who's been in the middle of it for a few years.

The next Philharmonic Concert is next Thursday at the usual time of 7:30 and for the usual price of \$1.50, transportation provided. Sign up now to enjoy guest conductor Gennady Rozhdestvensky, pianist Gary Graffman, and the orchestra performing Mendelssohn: Overture, Calm Sea, and Prosperous Voyage, and Piano Concerto No. 1, plus Shostakovich: Symphony No. 8.

A week from now, Friday at noon, there's to be yet another of our very popular noon concerts. This week will feature the group "Roland", and they do jazz. Eat out on the quad, and relax for a while.

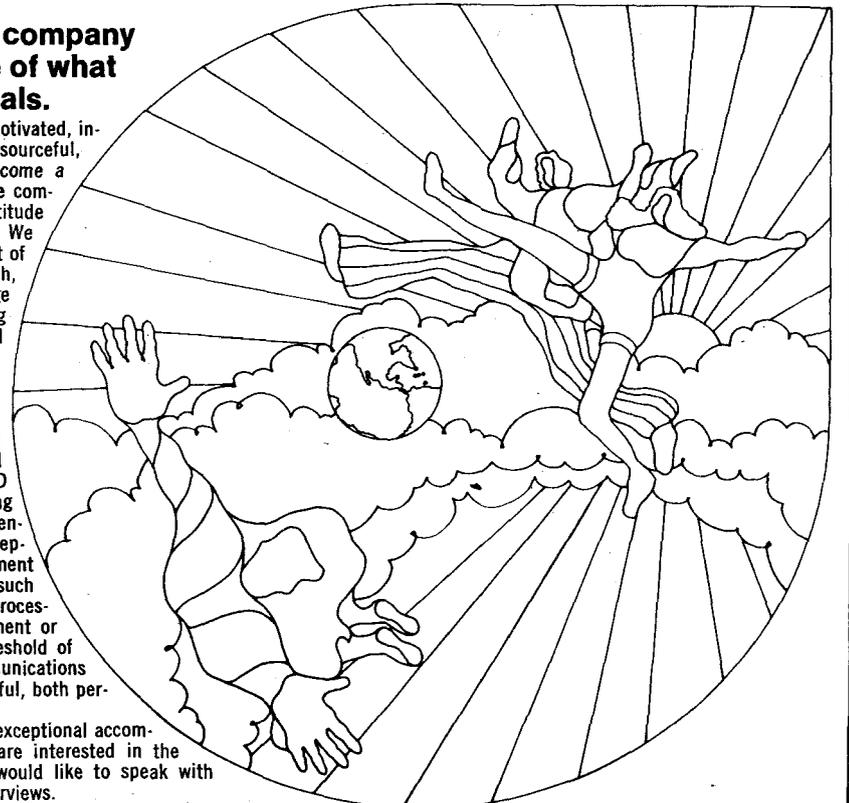
—Alan Silverstein

What we are as a company is but a composite of what we are as individuals.

If we as individuals are motivated, inquisitive, knowledgeable and resourceful, then the company that we become a part of will be equally so. Some companies may describe such an attitude as a "corporate philosophy." We would rather think of it as a fact of life. BNR is conducting research, design, development, long-range planning and systems engineering in all areas of technology related to telecommunications. Because of our "fact of life" approach to people, we have accomplished a great deal collectively.

We are presently searching for a select number of qualified individuals with BS, MS, or PhD degrees in electronic engineering to become members of our scientific staff. The challenge is exceptionally unique. Your involvement would be immediate...in areas such as the applied design of microprocessors in new or existing equipment or participating in the design threshold of computer-controlled telecommunications systems. The rewards are plentiful, both personally and professionally.

If you have already shown exceptional accomplishments scholastically and are interested in the telecommunications field, we would like to speak with you during our on-campus interviews.



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Board Beat

Continued From Page One
 money their first year at Caltech, and the company chosen must be able to absorb a year in the red. Another factor is the ability of the company to provide the services that Techers require, including waited meals, sack meals for those who miss regular ones due to classes, a reasonable menu, and a willingness to negotiate with the student preferences as to the composition of the menus.

Why is it that most food services "lose their shirts" their first year here? According to Bill Fennel of Greyhound-Prophet, there are always problems when a company moves into a new location; new employees to become accustomed to, new physical plant and layout, equipment which sometimes is in need of repair, new student preferences and systems of operation. Caltech also has special problems in its "Family style dinners" (for instance, in keeping the food hot and apportioning the food among the houses), and in coping with the eccentricities of student waiters. Also, Caltech has a small student body; it is difficult to profitably serve only 550 people. (The number of employees which is required to serve 550 people could serve 700-1000). However, he asserts that although Greyhound-Prophet lost money its first year, and will only break even by the end of second term, this year, the company feels that it understands how to operate at Caltech and would like to return for a three year contract.

What does Caltech want from a food service? Obviously, palatable, nourishing meals at a semi-reasonable price. However, as mentioned above, our waited meals are difficult for any economies, and our ten-meal-per-week plan also causes problems. According to R.W. Gang, in the past many companies submitted the same bid for the ten-meal plan as for a fifteen-meal plan, saying that they felt that students would

simply skip breakfast and make up for it at lunch. Second entrees cause a problem even now. Greyhound-Prophet's present contract calls for a main and an "alternate" entree, not an additional one; the company currently serves a portion of each entree for each student. Although the current contract calls for "limited" seconds, the actual situation is that of unlimited. Student desires will have to be more carefully outlined in future contracts, and such special situations may cost more in the future.

As of today, it is uncertain what the cost of next year's board contract will be, although it almost certainly will increase. But Caltech is still doing rather well on both room and board rates, even with the proposed room rate increase in mind; according to the preliminary results of a survey of California schools performed by R.W. Gang, we have one of the lowest room and board. This is true even when considering the luxuries that our contracts include, such as linen service, and those waited meals.

There will always be complaints about "Food Dis-service"; it is endemic to the situation. However, particularly at such times as the present, when a new contract is being considered, it is important to remain objective about the merits and problems involved with the current service. After all, particularly in that dolorous first year, it can easily turn out to be worse...

My-Set-is-On

After 284 Long and Lonely Days in Angolan Bush-country...

I do not believe that I have laughed that hard or long in several months; and I must confess that I do not have a penchant for laughter. On the NBC Weekend Update newscaster Chevy Chase describes the proceedings of the Patty Hearst trial as the screen depicts the standard artist's rendition of the courtroom scene. As the camera switches from one crayoned, stick-figure populated scene to the next, my roommate and I are on the floor with hysteria. Does that sound sophomoric to you? Some of the funniest things in this world are the simplest. A satellite interview with a British mercenary in Angola by Update newswoman Carol Stinson in her best Nancy Dickerson voice; "This man has spent 284 long and lonely days in Angola. How do you feel after 284 long and lonely days here in the bush?"

Mercenary: "I'd sure like to pop your lolly, honey."

Carol: "Don't say it if you don't mean it."

The action commences, we switch back to Chevy Chase in New York, "That report was from war-torn Carol Stinson in Angola." Tasteless? Crude? Maybe, but NBC's *Saturday Night* is tearing up the airwaves, and after only 3 months, it is one of the most enticing programs to the advertising world in history.

Three out of four Saturdays NBC gathers together the Not Ready For Prime Time Players, plus a special guest or two for 90 minutes of ribbing at the phenomenon known as Western Civilization. The show is telecast live (taped here in the West) from New York at 11:30 p.m. The Players are a heterogeneous, young group of largely unknown quantities who perform with a racy, comfortable style. One gets the distinct impression that they really enjoy what they are doing. Chevy (Cornelius) Chase has become the standout of the Players with his Weekend Update and fall-down routines. He was formerly a writer and actor with PBS's *The Great American Dream Machine*. The format is open, free-wheeling, fast-paced, and funny. Last week's guest host was Dick Cavett, and past hosts include Simon and Garfunkel, Lily Tomlin, Peter Cook and Dudley Moore, Elliot Gould, and Candice Bergen.

While watching Saturday Night, be sure never to go to the kitchen or the throne during a commercial; for it might be a false alert. The program has cleverly inserted its own professional-quality product plugs in the middle of the breaks. They are fantastic. A conservatively dressed bespectacled man sits in a leather chair; "Hi, I'm Herb

Brock of H&L Brock with another of my 17 reasons why to bring your income tax returns to us instead of to H&R Block. Number One, we cheat for you." A man in a supermarket with two casseroles and a typical housewife taste-testing them. "Yes folks, instead of choosing this casserole made with 80 cents worth of this famous brand tuna, she preferred the one made with 40 cents worth of Felina cat food!" A couple walks hand-in-hand down the avenues of Paris on a beautiful spring day, "This couple used absolutely nothing to make them seem more attractive to each other."

Two men stand side-by-side, "This is my wife, and I love her. She has so much to do, with the housework and the kids, but she still manages to finish everything and look fresh and alive. I asked for her secret. She uses Jamitol."

Dick Cavett was interviewed as the author of a new book hot of the presses, *Nebraska Pimp*, in which he related the intricacies of his "one-horse, back seat" operation in a small Midwestern town. The final skit in the last show consisted of the results of a new talent search. A man of about 30 years was dressed on construction worker's clothing, complete with hardhat. He rested on a prop girder singing "I've Got to Be Me." As the song

progressed, the man ripped off his shirt, revealing a black, satin brassiere. Off came his heavy working boots, quickly replaced by silver slippers. Tugging off his jeans showed black panties and stockings. As if this wasn't enough, from under the hair flowed very long blonde hair. Long before the last bars were completed, the audience went wild.

The character and texture of each show changes with each guest host, which provides a sort of beauty and excitement to the episodes. There is even legitimate musical entertainment during the course of the show, the most noteworthy having been the reuniting of Simon and Garfunkel, giving a memorable performance of many of their old favorites, along with some new ones.

If off beat, sometimes kinky and often simple humor is to your liking, this show is for you (Lampoon fans note: two of the show's writers were once with that venerable magazine) Even if that isn't your piece of pie please give it a go; it's really a lot of fun. The next show will not be on until February 14th due to NBC's also very worth while *Weekend*. Come St Valentine's Day, as always, my set will be on.

-Eric Carter

Peechies



The CIRCUS!

Photos by D. Wheeler and K. Yoshida



"Is everybody happy?" asked a clown.

"Yes!" screeched hundreds of small children. A few of the wittier ones yelled "No!" instead, but the Caltech Family Fun Circus was a smash—at least with the kids.

The program propounded the prodigious promenade of performers practicing their perplexing plethora of performances. Unfortunately, the grandiose descriptions and introductions did not conceal that this was a circus that could only appeal to young children. The rest of us are jaded.

The acts that did not attempt to be "spine-tingling" were generally the best: unicycle tricks,

juggling and balancing acts, a trio of teenage girls doing tricks while hanging from ropes. Since Beckman Auditorium is far removed from a Big Top, anything designed to make us hold our breath came off as slightly ridiculous. The processions and spectacles were not as lavish as the booming voice of the ringmaster claimed, but anyone under eight was impressed.

Of course, no one expected Ringling Brothers to come to Caltech, and the effort is quite commendable. Even so, only the very young can appreciate this type of circus (or Techers who want to snicker at friends forced to be clowns and animals).

—Pamela Crane

Chauvinistic Frosh Continue Kudos

Continued From Page One

...ece (of the action). We have no outstanding complaints other than that next time they bring their own wine and women.

The party was made possible thanks to \$100 from Lyman Donner and approximately \$200 from ASCIT (appropriated by the ESC). Jim Backus and Tom Snyder were instrumental in our effort to cope with the brilliance of the ASCIT treasurer.

For an enormous expenditure of their time and effort, we'd like to give our sincere thanks to Ed Eichorn and Ed Hamrick.

We'd like to express our appreciation to Ray Owen, Tom Postol, Sunney Chan, Richard Dickerson, Glennys Farrar, Albert Hibbs and John Swanson

for their noble presence and also to Jim Mayer and Paula van der Kogel for their suggestions and for inviting all the professors of the freshman courses.

A hearty thanks to unfrosh types such as John Baker, Greg Bone and Shal Farley for their expertise and the use of their hi-fi equipment; also to Ed Kober for saving our ass at the last minute with the use of his amp and speakers.

The specialized help of John (call him Pat) Huber, Ernie (Christian) Lewis, Chuck (EE Toad) Sarture and Werner (One Minute Shower) Pyka was much appreciated.

For their much-needed help along the way we'd like to thank Tom Benser, Robert Bourret,

Charlie Curatalo, Johnny D, Dean Face, Brian Freeman, Kevin Hilton, Cora Hunter, Jim (15-yard) Jacobs, Pete (ya, I'll do all the work) Kezios, Guy Miller Frosh, Mean Steen Pedersen, Richard (L.P.) Schumacher, Jack Shaio and Jon Vavrus.

A special thanks to the FEW with-it freshmen who tried to bring 'nookie' and to the even fewer who succeeded. If anything, this party demonstrated that a person gets as much out of a party as he puts into it. So quit strokin' it and start stokin' it, guys!

With enough popular demand another CITFC event is possible next term. Perhaps we, as a class, can continue to transcend the interhouse hostilities which appear to intensify as one's stay progresses here.

Let us set the example for the upperclassmen in whom this all-out house rivalry is ingrained.

Any comments, criticisms or ideas should be directed to the authors of this article.

OFFICE OF THE MASTER OF STUDENT HOUSES

INTERHOUSE COOKING CONTEST

JUDGES:
 Jim Black
 Philip Brown
 Harry Gray
 Hans Liepmann
 Jim Morgan
 Ray Owen

WHEN? Saturday, February 14, 2:00 p.m.

WHERE? Ruddock House Dining Room

PRIZE Microwave oven

CONDITIONS:

Each house that wishes to participate should submit a 3-course meal consisting of main dish, dessert, and its choice of salad, soup, vegetable, etc. Food should be prepared in the house kitchenette and there should be enough for six portions. If you let the Athenaeum know by Thursday afternoon (2/12/76) what serving dishes or equipment you need, you may borrow things from them providing you return equipment (clean) the next day. The Master's office will pick up the tab for rental of equipment.

First place house will receive a microwave oven for installation in one of the house kitchenettes. Honorable mention awards will consist of 1/2 to 2/3 of the wholesale price of an oven (the house makes up the balance). If you participate but don't want an oven, you may have something else instead for the kitchenette.

Following the judging by a faculty panel, participants will be invited to enjoy the feast with wine provided by the Master of Student Houses.

Please let Carmela know as soon as possible whether you want an oven for your house. We will need to order a certain number of them in order to take advantage of the wholesale price.

Entries will be judged on the basis of balance, appearance, and taste.

Fresh PASTRIES and BREAD

To Friends of John Rohmer:

Mr. John (Jack) Rohmer, who was the host at the Athenaeum bar for approximately five years prior to mid-1975, is terminally ill in San Gabriel Community Hospital. Jack has no hospital or life insurance and has lost his vesting in the Institute's retirement program. He and his family have very limited financial resources. His medical expenses will be extremely heavy as he has already undergone major surgery followed by a lengthy stay in intensive care.

We are establishing a fund, the proceeds of which will be given to his wife. It is our hope that those of you who appreciated Jack's services and unflinching good humor will see fit to contribute. If you make a contribution by check it should be made payable to the "J. Rohmer Fund" and sent to one of the persons listed below.

Jim Black (1-71); Lance Davis (228-77); Alexis Livanos (116-81); Jim Morgan (138-78); Gordon Stanley (102-24); Vivian Stirling (1-61).

Electric Light Orchestra

Searching for Unique Sound; Live Frampton First-Rate

Face the Music, Electric Light Orchestra, United Artists

There's a fun game that can be played with ELO's latest album. Simply match each song with the person or group that is its major influence. The first person who can match my solution wins a free ticket and ride to see ELO's next concert. Send your answers to Rock in Dabney House. (Sorry, Dudes, only one guess per person.)

1. Fire on High a Marshall Tucker
2. Waterfall b George Harrison
3. Evil Woman c Santana
4. Night Rider d Supertramp
5. Poker e Fleetwood Mac
6. Strange Magic f Paul McCartney
7. Down Home Town g The Who
8. One Summer Dream h Yes

Though I feel that this is ELO's finest album to date, it is still far from being great. Somehow the best that the Orchestra can seem to do is attempt to improve the sounds that other successful music makers have created. I really can't predict whether Electric Light will find a unique sound of their own, but I hope they can and thus realize the potential that they have shown for too many years.

Frampton Comes Alive!, Peter Frampton, A&M Records.

The musical potential that Peter Frampton has shown in the past is potential no longer. After toiling with Humble Pie and The Herd and producing a few so-so solo efforts, Peter has put

himself together a terrific album. I would say that this album is equal to the best live albums that have ever been made. That's right. This album is equal to the Allman Brothers at Fillmore East, the "righteous" Bangladesh concert, or any other truly great

live album you can think of.

Every single song on this album is truly fine. No filler material or overlong drum solos here. Although this fact is in itself nice to know, it becomes truly amazing when you find that this record is in fact a double album. (I can hear your wallets wilting already, but never fear, for the two record set is specially priced at only a few cents more than a single disk selection.) Most of the songs are old Frampton staples, but are done with more energy and skill than you might have imagined possible.

Side one of the album has

four excellent rock songs that are excellent to boogie by (take note, Holliston). Side two is a bit mellower with Frampton's acoustical guitar work stealing the limelight. Peter even makes the big commitment in the first cut, "All I Want To Be," when he sings:

I don't care
If they cut my hair.
All I want to be
Is by your side.

Side three opens with a cute little guitar piece and then explodes into some more excellent rock music including the nth version of "Jumping Jack Flash" and a passionate love song entitled "I'll Give You Money". The final side includes the best cut on the album, an incredible song called "Do You Feel Like We Do."

Throughout the album the crowd reacts wildly to every note. At one point Peter stops singing and lets the audience sing a line for him. To say that this enhances the album would be quite an understatement. One can't help but be swept up with the crowd as Peter spins a web

of music around them. And what a web that is. Peter puts out some of the smoothest electric guitar likely to be heard anywhere. He also manages to produce some of the best sound I've ever heard made with the new-fangled talk boxes. I hope that you can find time to give this record a listen for I feel it one of the best new albums in long, long time.

Here's the latest in upcoming concert information:

David Bowie, Feb. 8,9,11; the Forum.

Kinks, Feb. 9,10; San Monica Civic.

Spinners and Rufus (featuring the incredible Chaka Chan), Feb. 14; Forum.

Electric Light Orchestra, Feb. 16,17; Anaheim Convention Center.

Roxy Music, Feb. 20; Hollywood Palladium.

Kiss & Montrose, Feb. 23,24; Forum.

Coming in March: Janis Ian, Dan Fogelberg, Carole King, The Who, Queen, Kingfish and Supertramp.

--Rock Howa

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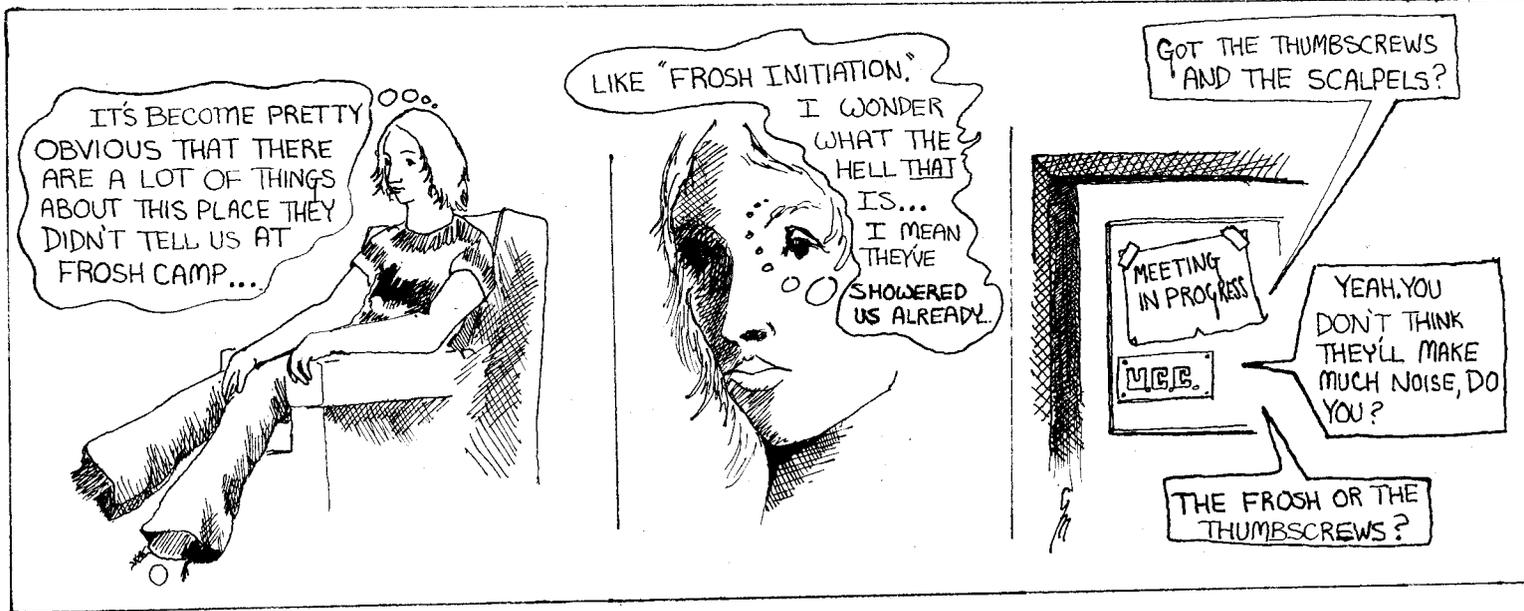
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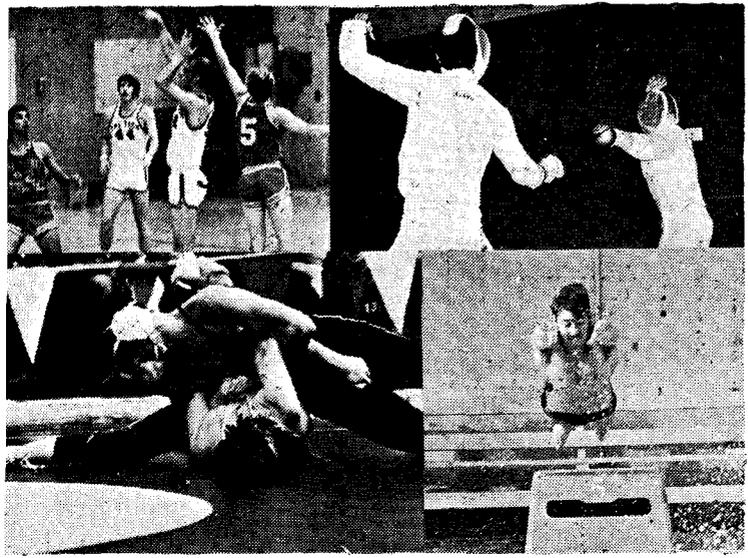
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Page Eight Friday, February 6, 1976

Analytic Hockey

by Bob D.T. Hardy
ABSTRACT: This article shows that when the Caltech Hockey team is pitted against the CLA Hockey team the result is not necessarily victory for the Caltech team. Furthermore, it shows that by random fluctuations the worse team can sometimes score more goals than the better team and so win the game

even though they do not deserve to.
INTRODUCTION: It is a well known fact that Caltech has a very superior hockey team (*The California Tech*, 1975-1976). When Caltech played UCLA in previous games, Caltech always won, establishing the fact that Caltech is better than UCLA. Reasoning based on these facts

allowed the following hypothesis to be advanced: If Caltech were to play UCLA again, it would necessarily win. To test this hypothesis a game was scheduled and played against UCLA. The remarkable and somewhat disturbing results of that game are reported below. A possible mechanism underlying these results is discussed.

MATERIALS AND METHODS: Hockey-sticks, switch-blades, skates and various other paraphernalia were purchased at random places. Several players ate one Hershey bar before the game. Several did not take a shower after the game. The game, consisting of three twenty-minute periods, was played mostly on ice but sometimes on the ass and once or twice on the head. As usual, the Caltech goalie, Cliff Brown became thoroughly wasted before.

RESULTS: Briefly stated, UCLA beat Caltech, but Caltech outplayed UCLA, (see Table 1)

TABLE 1

| Period | 1 | 2 | 3 |
|---------------------|---|---|----|
| goals for UCLA | 0 | 1 | 1 |
| goals for Tech | 1 | 0 | 0 |
| shots on goal(UCLA) | 8 | 8 | 8 |
| shots on goal(Tech) | 8 | 8 | 13 |

Thus, the final score was 2 to 1 for UCLA, indicating victory for UCLA, but Caltech outshot UCLA, indicating better play for Caltech.

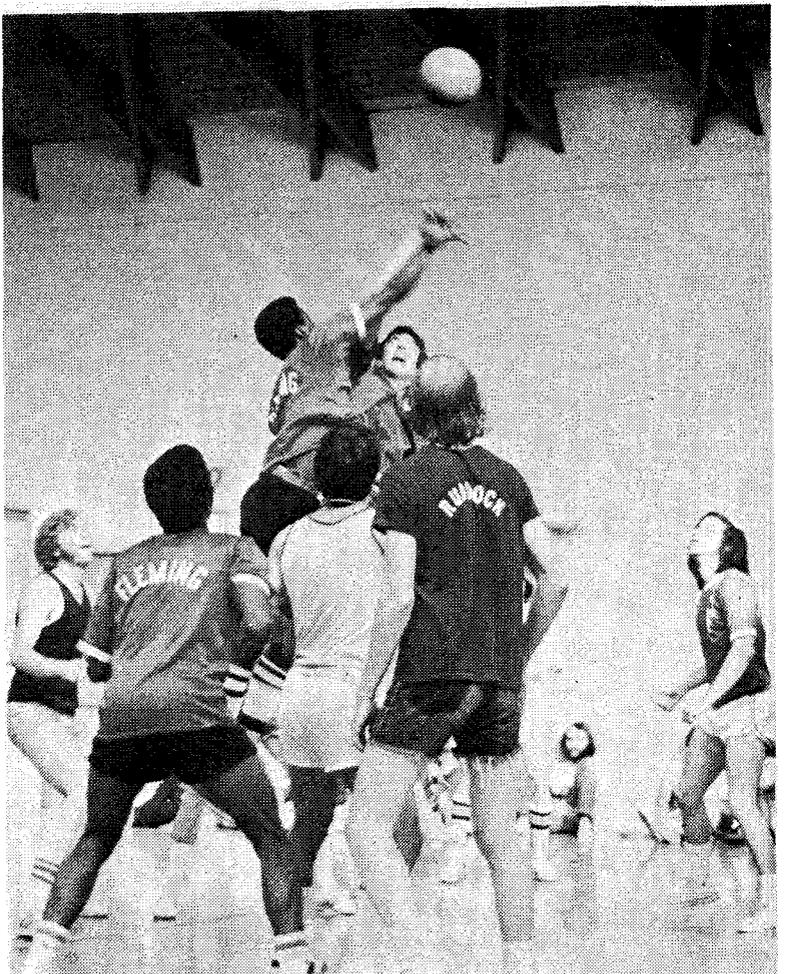
DISCUSSION: One possible explanation for the above result is that the Caltech goalie played worse than the UCLA goalie. This explanation is ruled out by ignoring the data from period 3. In this case each goalie let in only one of 16 shots on net. Thus, they played exactly equally. If we then say that each shot on net has a 1/16 chance of being a goal and limit our attention now to the third period, the probability that



Bill Steele appeared in concert on the Quad last Friday. Photo by G. Laib

Discobulus Duel

by Anaconda
 Big Red's slam-dunking basketball machine hustled their way to an upset Discobulus victory as Ruddock's second-half shooting attack turned as cold as their shirts were blue. The game wasn't nearly as close as the three-point 41-38 margin would seem to indicate. After taking a six-point lead at the end of the first quarter, Ruddock began, as a portent of things to come, losing its shooting knack and held on to salvage a half-time tie. The second half told the story as Big Red held the Rudds to an incredible four points until the insertion of *Tech* reporter "Moon-Ball" Carter sparked a nine-point Rudd rally in the final two minutes. But all was to naught as Fleming copped three more Discobulus brownie points.



Fleming's flim-flammery copped them an upset victory over Ruddock in Discobulus action last weekend. Note pained expression. Foto by Pheldman

UCLA would score once in 8 shots is ca. 0.44. The probability that Caltech would not score once in 13 shots is ca. 0.39. These two numbers are extremely close. It therefore seems likely that UCLA's win can be attributed to random fluctuation. In other words, the little bastards lucked out.

Into the Future

Another experiment on ice hockey will be run this Sunday Feb. 8 at 5:45 p.m. at West Covina Ice Arena. This time the opposition will be the Senior Olympic Team from California. Admission fee will be \$1.00.

We Win!

by Ed Bielecki

In their first return match with PCC the swordsmen of Caltech did their first victory of the season up royally. Fielding two foil teams, Tech not only won both, but did so 7-2 in both cases.

Tech will not, however, be able to rest on its laurels, as it will have already faced CSULA on Thursday, and will meet PCC yet again on the 12th. So, if you have interest in viewing flashing foils and slashing sabers come to the gym about 7:30 on Thursdays.

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 - Savings Accounts
 - Travelers Checks
 - Trust Services
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Auto Banking Center at Colorado and Catalina Office, 1010 East Colorado and Citizens Commercial Trust & Savings Bank of Pasadena, hours: 9 to 4:30 daily; 9 to 6 Fridays

PASADENA
 Head Office: Colorado and Marengo
 Colorado and Catalina Office: 1010 E. Colorado
LA CANADA
 La Canada Office: Foothill and Beulah

Citizens Commercial Trust & Savings Bank of Pasadena

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Be The T Manager

Interviews for the office of *Big T* business manager are now being held. If interested, drop a note to Chen Sun in the Fleming OC box.