



Upperclassmen check K_{SP} of frosh after rigors of rotation week.

Photo credit Ken Li

Blue Cross Double Crossed

by Kevin Drum

Due to the spectre of a 30% increase in fees by Blue Cross of Southern California, the Young Health Center has switched insurance carriers to Mutual of Omaha. The move was prompted by significantly lower fees from Mutual.

Blue Cross had projected a bill in excess of \$130 per student according to Director of Student Relations Lyman Bonner. This is in contrast to Mutual of Omaha's bid of about \$98 per student per year.

Besides the elimination of a fee increase, there are other benefits to the Mutual of Omaha policy. Blue Cross had a maximum payment of \$100,000 (five times Mutual of Omaha's maximum), but that meant little in practical terms. "I haven't seen a case here (at Caltech) where a \$10,000 maximum would have made a difference," explained Larry Thompson in Personnel,

who was responsible for the switch in insurance companies. Mutual of Omaha will consistently pay more per sickness up to its maximum of \$20,000. For instance, they will pay up to \$80 per day for hospital rooms versus Blue Cross's \$65 per day. They will also pay twice as much for surgeons' fees.

The Mutual of Omaha policy appears to offer superior protection against complications due to pregnancy. Although neither policy covers maternity hospitalization, Mutual of Omaha's policy states that "complications due to pregnancy are treated as any other illness." The Blue Cross policy paid only for "severe" complications of pregnancy and even then only after a \$500 deductible.

Overall, Mutual of Omaha offers superior short term coverage while Blue Cross excelled in long term. However, according to Thompson, since the average stay

in a hospital is under seven days, Mutual's policy offers better practical coverage.

The premiums for families are slightly higher under the new plan (\$88 per term versus \$70 per term), but premiums for married couples are slightly lower (\$42 versus \$49).

Probably the principal disadvantage with the new plan, however, is the loss of convenience of Blue Cross. Instead of simply showing your Blue

Continued on Page Two

Footsteps of the GODS ?

Tech Prof Lectures on Genetics

The normal expectation of the human race is to become extinct. This is, after all, the fate of nearly every species since the development of life on this planet. The question of how mankind may avoid this fate in a strict evolutionary sense was considered by Professor James Bonner (PhD, '34) in Wednesday's Watson Lecture.

The history of life on Earth began with the first bacteria ("under the supervision of Professor Norman Horowitz, our expert on the origin of life"), progressing with the development of photosynthesis, eukaryotes, vertebrates, reptiles, mammals, and, at present, man. When the first early homonids dimly grasped the usefulness of a tool technology, a premium was placed on bigger and better brains, or, as Professor Bonner put it, "the swelling of the head." The transition from these primitive homonids to man's modern form did not occur in a quantum leap. Two separate gene pools gradually arose in Central Asia which eventually formed the *Homo neanderthalensis* and the *Homo sapiens*. These species were competing for dominance (meaning the ability to occupy a limited ecological niche). *Homo sapiens*, the surviving species, was able eventually to eradicate its rival through an improved ability to manipulate a rather hostile

environment through the use of tools. In Professor Bonner's whimsical expression, "Who survived? Well, it wasn't them."

Evolution, however, has not ceased with the ascendancy of *Homo sapiens*. Genetic change is as surely a part of man's future as his past. Numerous genetic factors have become fixed in the population in the intervening time. Several different subspecies (what a biologist would call strains) have become firmly established. Any two randomly chosen individuals have an average of only 15% of their DNA in common. Orthodontists claim that the human jaw is getting smaller and that teeth are being lost. Traits such as hemophilia are known to have surfaced in the population only within the last four to five hundred years. As Professor J. P. Revel has said, "Man as he is must vanish." Genetic change is both inexorable and inevitable. In the face of the forces governing natural selection and evolution, it is therefore the expectation of *Homo sapiens* in the long run to be superseded by a better adapted species of man. ("We hear about how smart the Koreans are getting...").

However, the human race has the capability of guiding its own genetic change. It is the first species which is not subject entirely to blind chance in this

Continued on Page Five

Brief News Brief News Brief News Brief News...

Sail, Ho!

There will be an organizational meeting of the Caltech Sailing team on Monday Oct. 11 in Winnett Center, Club Room 1 at 8:00 p.m. Anyone interested in intercollegiate sailing competition is invited to attend. See Gary Bodie, Ricketts, for information.

Club and Salad

All CIT women students and wives of students are invited to join the Caltech Women's Club. To receive a copy of the Club's Bulletin and for information about its activities call Janna Harkrider, 793-1793, or Mary Lou Whaling, 796-3964.

The club's first meeting is a Mexican Salad Picnic on October

14, 11:30 a.m., at Tournament Park.

Edmund of York is King of England??

Perhaps you can make a royal wish come true on Saturday, Oct. 9, as the Caltech Gamers have an evening of Kingmaker and other Avalon Hill and SPI board games. The action begins at 7:30 p.m. in Clubroom 1.

Son of Baxter

Robert Huttenback, chairman of the Division of the Humanities and Social Sciences, recently announced several developments which will allow the continued operation of the Baxter Art Gallery for the foreseeable future. The student-sponsored fundraising program resulted in contributions of some \$3,000 from a highly diversified group of contributors from both on and off campus. These funds allowed the Division of the Humanities and Social Sciences the necessary time and latitude to develop a long-term plan of operations.

As a consequence, Professor Robert Rosenstone will take over as director of the gallery. He will replace Professor David Smith, who through great personal ef-

fort made the gallery one of the most innovative and exciting in Southern California. Professor Huttenback has entered into an arrangement with the Pasadena Art Alliance under the terms of which the Alliance will support the exhibiting program of the gallery. Professor Rosenstone will be supported in his management of the gallery by a board of directors which will consist of three members from the Art Alliance and three from the Institute. In addition, a professional curator will be hired to work in conjunction with Dr. Rosenstone and the board. The Division will provide sufficient funds to cover the salary of the curator for one year, during which period more permanent support will have to be procured.

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The Editorial Page

Health Center Blues

During a recent interview with Dr. Lyman Bonner concerning the insurance policy switch from Blue Cross to Mutual of Omaha, it was disclosed that an unofficial estimate placed the expected cost of keeping the Health Center open 24 hours a day, seven days a week, with a minimum of one registered nurse on duty at all times at only about \$15,000/year more than the cost of running the Center on its present schedule. Put in more relevant terms, this is only \$10/student/year.

There are, however, several complicating factors. Two years ago the Institute combined the health fee with the other fees included in tuition. This was done because of the fact that the fee listed reflected only the cost to the student and not the total cost of health coverage, and the administration decided that this partial disclosure of cost was incompatible with its policies in other areas. As a result, a raise in health fees would be distributed among other expenses of tuition, so at present there is no way to add a surcharge to permit the Health Center hours to be expanded.

Therefore we recommend that the following action be taken:

1. An existing committee look into the possibility of having the health fees appear separately on term bills once again with an itemization acceptable to the Institute, or a new committee be formed with the express purpose of doing so.
2. If the committee finds that there is a feasible means of doing this, a survey should be conducted to determine whether there is sufficient interest among the students to warrant increasing the health fees by \$10/student/year.
3. If the students find the surcharge acceptable, then the Institute should implement the surcharge with a minimum of delay in order to upgrade the health services at Caltech.

The health problem at Tech is a very important one, and the procedure outlined above should be given highest priority.

—Carl J Lydick
—Al Kellner

Brief News...

Viking Revisited
Dr. Carl Sagan, authority on Mars and member of the Viking science team, will discuss the two Viking landers and what they are revealing about Mars in a program to be held on Tues., Oct. 12 at 8:00 P.M. in Caltech's Beckman Auditorium.
The host of the program will be Dr. Bruce Murry, director of

Caltech's Jet Propulsion Laboratory. Dr. Murry will participate in discussions, illustrated with pictures taken by the Viking spacecrafts, and both scientists will inform the audience on the results of the spacecrafts' biological, chemical, and seismic experiments.
This program is free and open to the public and sponsored by the Caltech Y.

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NEXT WEEK
Play it Again, Sam

Burch's

Ballet

With a squeak-squeak and a bang-bang of their elegant clodhoppers Burch Mann's *American Folk Ballet* galloped into Beckman Auditorium Friday night. As a ballet company they were a disaster, but as entertainment they were very good, if a bit "light."
The best parts of the performance were the changes in mood produced by the company. With very simple materials—just costumes and a scrim, they were able to show an astounding range of contrasts of character. The show was primarily visual in content—you could have "shut your ears" and missed little.
The idea of the "ballet" was to give an impression of the last century in American history—the winning of the West, to be specific. There were scenes like the "Moon of the Falling Leaves" where an Indian Holy Man talks of his people and their sacred objects; or "Sunday Morning on Deep Creek," a humorous rendition of a frontier church. Here, the gags were sight



Boggles

Beckman


gags, and whenever there was dialogue or singing it seemed a little trite and out-of-place. This is not to say that the company was bad, just a little "rusty" from not enough practice with Beckman's stage, which differs from more traditional stages in being somewhat smaller. There were the inevitable mid-air collisions that beset amateur ballet work; one dancer even fell into the backdrop. Somehow the show went on.
There were boisterous, rowdy sessions like the "Daughters of Michael Dongareven" where the daughters engage in horseplay while supposedly doing the wash; and there were serious episodes like "Streets of Laredo," a dance poem telling the story of a man who went west and died on the way, to be buried in an unmarked grave in a strange town.
The basic structure of the ballet was to alternate a long *narratio* by an emcee with both song and dance acts. The major emcee was dressed like a cowboy

but acted like a carny barker, with the same strained accents you might use to sell soap flakes or cereal. The dialogue itself was often quotes or sentimental material designed to "spiff up" what might otherwise be simple choreography. Often, when the heavily choreographed dance episodes (which were very good!) gave way to singing, you began to wish they hadn't. Most of the singers were either inexperienced or else had severe laryngitis. The show capitalized on a sense of mobility throughout. If the action had stopped long enough for someone to actually think about what was going on, it might have been bad. But like slapstick comedy, a series of mediocre incidents alternated with good footwork can make the whole look good. Certainly I can't say I'm sorry I went.
—David J.E. Callaway

Double Coverage?

Continued From Page One
Cross card and letting the hospital (or doctor) take care of the paperwork, a form must be filled out and filed with Mutual of Omaha each time you enter the hospital or visit your doctor. These forms, half of which the patient completes (the other half is filled out by the doctor), are available at the Health Center. Notice of injury must be made within 20 days and notice of sickness within 90 days.
Miscellaneous items covered under the Mutual of Omaha Policy are injury to natural teeth (up to \$250), diagnostic treatment outside of a hospital (up to \$150 per sickness), outpatient hospital services (up to \$300 per accident and \$150 per sickness), and coverage for mental and nervous disorders (the plan provides for up to 20 days hospitalization).
Double Coverage
Many students have wondered why they must pay the \$100 premiums (included in the cost of tuition) when they may already be covered by their own

insurance carrier. According to Lyman Bonner, it is the custom at Caltech to provide coverage for all students. The principal reason for this is Caltech's size. If the insurance were made voluntary, not enough students would sign up for it to make it worthwhile for an insurance company. Also, there is no coordination of benefits under the Mutual of Omaha plan. This means that they will pay even if you already have been covered by another insurance company (although the other insurance company may have different ideas for those of you out to beat the system).
Students who have not picked up an insurance card at the Health Center (located on Arden St. just south of California Blvd.) should do so immediately. The old Blue Cross cards are no longer valid and the new cards are necessary to prove you're insured in case of an accident. Brochures describing the new insurance plan and the Young Health Center are also available there.



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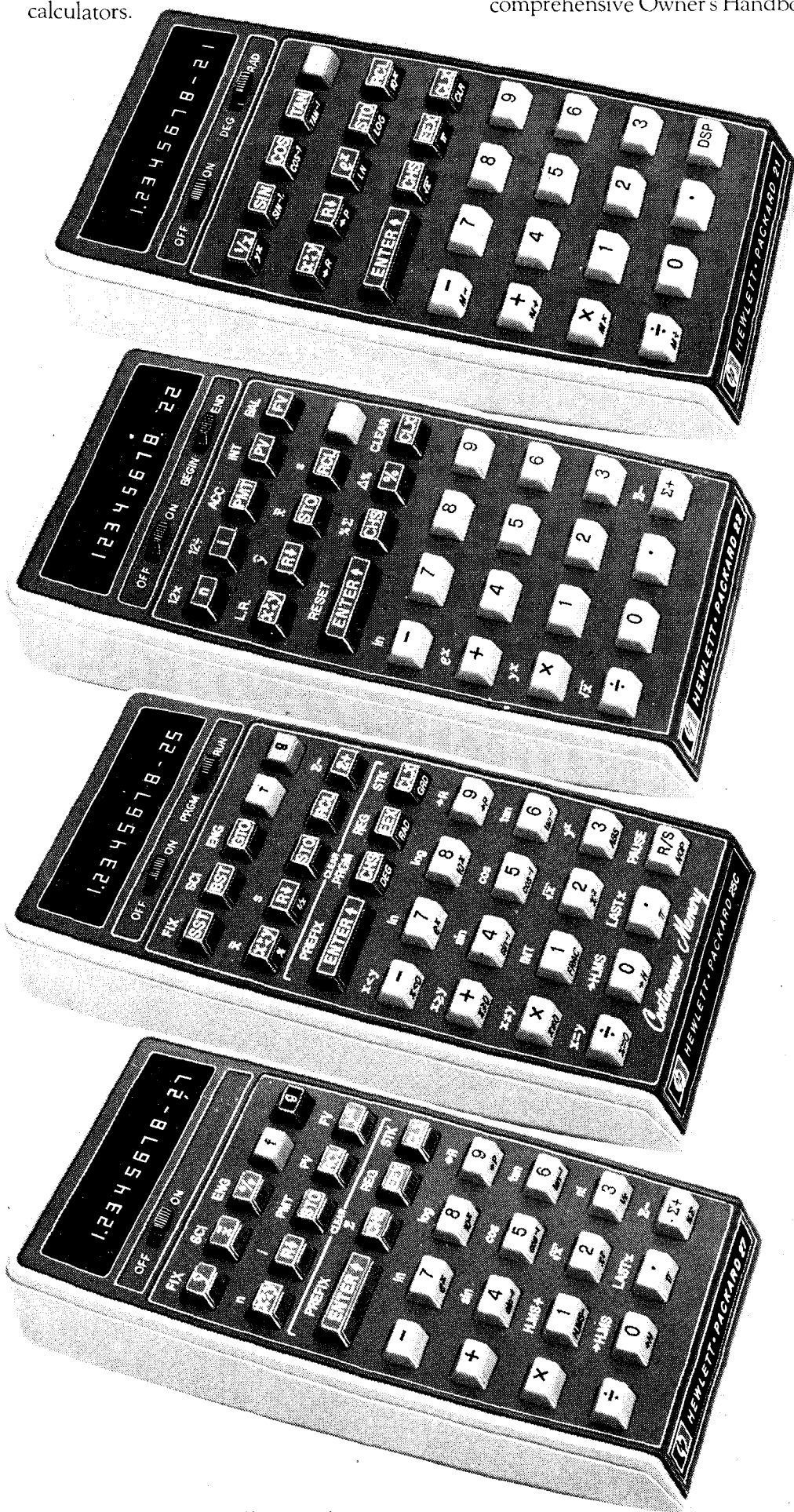
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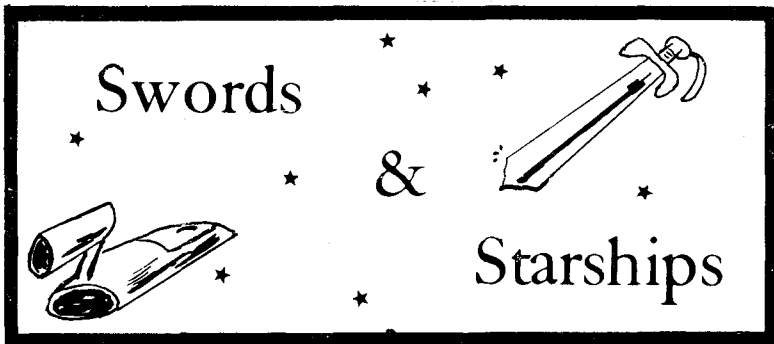


This column, barring further bizarre pasteups of this publication (look closely at the Frosh camp issue), is intended to be a semi-regular (as often as either Gavin Claypool or I manage to write it) feature, offering news, reviews, opinions and general trivia concerning the science-fiction/fantasy field.

This week, I want to mention some books that are not quite new, but weren't exactly available until recently.

The first of these is *Dragonsong*, by Anne McCaffrey. This book is volume 2½ of her famous Dragon series (the first two being *Dragonflight* and *Dragonquest* respectively). The reason for the half is that this one takes place, not after, but at the same time as volume two, mostly in a different place with overlapping scenes. For example, the climactic moment of *Dragonquest* is observed in passing but with almost no interest by the main character in *Dragonsong*. Sound confusing?

In any case, *Dragonsong* centers around a talented musician in a society where musicians are very important. Among other things, they supply most of the oral history of the world of Pern. This talented musician, Menolly, is under the tutelage of an old Harper immediately before the start of the book, and learns well. The Harper (the generic name for guild musicians) sent some of Menolly's music to the Masterharper for an opinion. Ordinarily, this would soon lead to Menolly becoming a Harper, loved and respected by everyone. Sounds good no? However, as they said in the ads for *Logan's Run*, 'there's just one catch'. Menolly is a 15-year-old girl, and lives in the utmost boondocks of a land where male dominance is the rule. Her father is the hidebound leader of a group who survives by fishing, and who feels that a woman's place is at home making fish stew. The old harper has died, and Menolly's father undergoes the (for him) absolute torture of discovering that Menolly is not only the only one in Half-Circle Sea Hold who can



give the proper funeral services to the dead Harper, but also the only one who can teach the children their learning-songs. The plot thickens from there.

The writing of the book itself isn't that great, ranking alongside perhaps an average Andre Norton book in quality. The thing that makes the Dragon books worth reading is the dragons themselves. There are two major types: Fire Lizards, the size of perhaps a hunting falcon, shy of humans, but lovable; and DRAGONS, big enough to ride on. These dragons are telepathic, fly, can breathe flame given the right diet, and can teleport. This last is, I admit, a bit unusual for the average classical dragon, but it is a necessary plot device. Anyway, the byplay between dragonkind and mankind is beautiful.

Man: "Why didn't you dragons tell us you could travel through time?"

Dragon: "Well, you didn't ask..."

Dragonsong is primarily recommended for people who have read and liked the other two novels. Right now it's only available in hardbound (Atheneum, \$7.95), but hopefully it will come out in paperback soon.

* * *

Elric of Melniboné is the name of Michael Moorcock's 'newest' American release. 'Newest' because it sort of came out once before, entitled *The Dreaming City*. It seems that Lancer Books, a now-defunct book company that caused everyone a lot of trouble both before and after its demise (more on that later), edited *EOM*, changed all of the present tenses to past tense (for reasons known only to

themselves) and re-titled the book. This greatly confused people who had seen the British edition, and annoyed Moorcock, since he hadn't given them permission to screw around like that. Finally, DAW Books put out a more coherent American edition (\$1.25 paperback).

Like all of the Elric saga, *Elric of Melniboné* is depressing, but rather good. Elric is the prototypical fantasy anti-hero. From most points of view he is one of the bad guys. He serves the Lords of Chaos. He wields a sword that doesn't sing, it moans as it devours the souls of his victims. Sir Lancelot he ain't. However, Michael Moorcock, who won major SF awards for his "Behold the Man" is at his best when working with tormented beings. His entire Eternal Champion series is about a man, or group of men, or whatever, who is/are drafted into fighting the good fight for one side or another in every time and place; sometimes winning, sometimes losing, always fighting.

Elric of Melniboné is a worthwhile book, but don't read it when you're in a down mood.

* * *

A few last bits and pieces: remember what I said about Lancer Books still hassling people after it ceased to exist? Well, it's still going on. It seems that Lancer had the rights to a number of books (i.e., sole authorization to print and sell copies), including all of the Conan books and many others. It seems that Lancer, which went bankrupt rather suddenly, had a lot of obnoxious creditors who want some kind of control over these properties. This has resulted in a legal hassle of enormous

magnitude, resulting in many books being out of print, including Conan. Sigh.

The Silmarillion, the long awaited sequel to J.R.R. Tolkien's *The Lord of the Rings*, may come out approximately one year from now, according to last estimates. Rumors are flying about an earlier release date, but those are still rumors.

Marvel Comics, after doing what has turned out to be an impressive series of straight SF adaptations into a comics medium, is attempting two major projects at present: the adaptations of *2001: A Space Odyssey*, and *Logan's Run*. The first issues have come out; the former is bad, the latter good. The visual format required is somewhat limited but there are definitely possibilities.

You may think that I'm ignoring *Space: 1999* in this column. You're right. Watch UFO, Star Trek, Outer Limits, or almost anything else instead of the reruns of last season, if you really need at TV SF fix Watch

this season's episodes if you have nothing better to do. At least the uniforms look better.

—Nick Smith

Space Filling News Brief

TQFR Feedback

Next Wednesday, October 13, at 4:00 P.M. in Winnett Lounge there will be a meeting open to students, faculty, and administration concerning the Teaching Quality Feedback Report. Questions to be discussed include:

—What has been the impact of the TQFR?

—What should its purposes be?

—Should it continue to be published in the future and if so how often?

Doughnuts will be awaiting your arrival in Winnett next Wednesday..

Flick Guide: PICKING AND BLOWING

For any of you interested in a night about town, let me suggest going to see the current show at the Ice House. These three acts are really something out of the ordinary.

First on the billing is Josh Hannah, a singer and guitar player. This act consists of some fancy sound effects, too. One number, a take-off on New Orleans Jazz, involves a good trumpet imitation by Josh and some bass-sounding vocalizations. Sometimes the facial expressions of the actor distract from the music, but over-all the show is good.

The second part of the show is GALLAGHER, a comedian. This man is extremely funny. His act includes puns, take-offs on T.V. ads, and discussions of parts of the body.

Last in the night is the MFQ,

or Modern Folk Quartet. These four musicians do songs ranging from Tahiti to down south, and from Hawaii to Frank Sinatra. This is an act really worth seeing if you like banjo-picking and harmonica-blowing.

The shows are at 8:30 and 10:30 Mondays through Thursdays; 8:30, 10:30 and 12:30 Fridays and Saturdays; and 8:30 Sundays. This act will be here through the 10th. Cost is \$1.50 on Tues.—Thurs. and \$2.00 on Fri. and Sat. Sundays are also \$1.50, while Mondays are usually more expensive (being special shows) and the prices are marked beside the billings. If you want to see a show at the Ice House especially on weekends, you should call and make reservations. Call MURRAY 1-9942.

To get to the Ice House, go North on Lake to Walnut, turn east on Walnut and go to Mentor, (one block). The Ice House is on the east side of Mentor, south from Walnut almost all the way to Colorado [For those of you who ask why not turn North on Mentor from Colorado, it's because Mentor is ONE WAY, stupid!]. The entrance is through an alley, and has a sign above the alley.

Some coming attractions are Corky Carroll and the Fun Dog Surf Band... Monday, Oct 11, \$2.00.

Rick Cunha, Lawrence Beezer and Mike Farrow... Oct 12-17.

1950's *Nostalgia Monday* with Mag Wheel and the Lug Nut... Monday, Oct. 18, \$2.50.

Michael McGinnis, Martin and Giguere, and Bill Haymes... Oct. 19-24.

Bluegrass Monday with Smokewood... Mon., Oct. 25 \$2.00.

Father Guido Sarducci Kimber-Pelli, and Michael Katakis... Oct. 26-31.

Big Band and Big Act Monday with MFQ and the 13-piece band of Dennis Drith... Mon., Nov 15, \$2.50.

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BETTER BABIES

Continued From Page One

respect. This is accomplished partly by modifying our environment and thereby changing the parameters determining which traits are adaptive and which not. This is an ancient process, having started with the first tool-using homonids.

It has been stated by some cynics that *Homo sapiens* must be one of the many evolutionary blind alleys doomed to extinction, in view of the mess we have made of our environment. Professor Bonner feels differently; in his view, since it was the application of our intelligence which created the environment in which we live, it will be our intelligence which creates the adaptation necessary to survive in it—a process it might be pointed out, which has accompanied the growth of civilization since the introduction of the first tools. He feels that in the not-so-distant future, the human race will control not only its environmental changes as forms of adaptations, but its genetic changes as well. We are about to embark upon an era of self-modification, as opposed to environmental modification as means of adaptation. Genetic manipulation need not only involve biochemical modification of genes, as the term "genetic engineering" usually connotes. Professor Bonner believes instead that selective breeding will be the applicable answer.

Two approaches to this suggest themselves, namely, scientific elimination of "bad" genes, and careful promotion of "good" ones. He didn't attempt to solve the question of who should do the selecting, and using what criterion. As was once pointed out to him, if the selection committee were composed of biologists, we would breed a race of scientists—which would not provide the variety of intellectual capabilities needed to adapt to a complex environment. (The same problem of course, applying to any particular committee, even with only the highest motives.)

Amniocentesis is a method of safely obtaining cellular samples from a young fetus. These cells can easily be scanned for a variety of genetic defects. Gross chromosomal abnormalities involving wrong numbers of chromosomes, broken chromosomes, and the like can now be routinely detected. (The process, called karyotyping, required one day when performed by hand; and one hour when performed by a special machine hooked up to a computer. Unfortunately, only one such machine has been built, "and it does not seem likely to replicate itself in the near future"). When such an abnormal fetus is detected, it can be aborted. The morality of such a result is moot; the evolutionary value in this case is questionable in view of the fact that few such children are capable of reproduc-

ing. However, around 50 other types of molecular diseases exist, involving enzymatic defects which at best physically debilitate the sufferer but quite often cause mental retardation. These are indeed inherited traits, most of which have gross effects only in the homozygote, but many of which may have unknown weakly adverse effects in the heterozygote. Such recessive genes are widespread in the population. Cells derived from amniocentesis can be cultured and biochemically tested for such defective enzymes; the evolutionary benefit of abortions in such cases is obvious; the morality is again a moot point. At present, not all genetic diseases can be detected by this method; for instance, sickle cell anemia affects only adult and not fetal hemoglobin. However, if methods were found to turn on genes at will, their products could be examined in cultured cells derived by amniocentesis, and the affected fetus aborted. Beneficial genes (for example, for longevity, high energy, and wide-spectrum intelligence, all of which have been shown to have at least some genetic basis) could be encouraged by several means. One emanates from H.S. Muller, who suggested that germ cells from each newborn child be frozen at birth, and the child sterilized. Some years after the individual's death, his life would be reviewed. "The question asked would be, Do we want more people like that? If not, throw his germ cells in the garbage." If so, they could

Continued on Page Seven

The Galloping Gourmand

As another year of the ten-meal-per-week board contract heaves to a start, Techers are again reminded that on weekends they must fend for themselves. Generally, one of three strategies is used to overcome this: cooking for one's self (autoculination?), going out to eat, or starving. (While the third approach is not recommended, it is clearly the most economical). Regardless of the plan taken, Techers will almost invariably spend more time and money on food than they would like to, and at the same time will not get the nourishment they need.

In the past this column has offered up suggestions on local restaurants and other eateries, on the premise that eating out with some friend can be an enjoyable break from Tech as well as a time to get properly fed. Well, this is still true, and future columns will discuss many local (and not so local) establishments. This week, though, instead of a restaurant review, we'll talk about some practical suggestions for cooking on weekends, bearing in mind the limitations of the student houses for storage of food and preparing it.

1. Remember that your real goal is to feed yourself properly and cheaply. This means eating meals on weekends, not just snacking here and there when you feel the urge.

2. Remember the N basic food groups, where N ranges from four to eight, depending on which book you read. (They tell me the Health Center has some books and articles on nutrition.) Most Techers consume too much grain (spaghetti, bread, etc) and not enough protein or vegetables. Watch out especially for "prepared" foods; a can of "beef soup" might have no more than one ounce of beef in it—hardly enough protein for a solid dinner. Cheese and eggs are also good protein sources, and eggs are relatively cheap.

3. Fresh foods are better than their canned or frozen counterparts, and often cheaper. Apples, oranges, celery, carrots, broccoli, etc. can be eaten as is and don't need to be refrigerated if you eat them within a couple of days.

4. Pool your resources. If you get three or four people together your groceries will be cheaper and there'll be less work for each person to do. Also, you can buy things that are too big to be consumed by just one or two people (ice cream, watermelons, small roasts, etc.) in one weekend. Besides, eating alone is a real drag.

5. Use completely, but do not overuse, your house cooking facilities. Don't be afraid of using a big oven, but be prepared to wait in line. You may wish to

Continued on Page Six

Caltech's Burger Continental

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It's always nice to be able to report good news. What better way to open a discussion of the barrage of activity in Beckman this weekend than with the announcement that the Caltech Student Rush ticket is returning to \$1?

It had been decided to raise the price to \$2 (giving me, as an aside, the opportunity to note that the reproduction Turnbull \$2 won't buy is the *cropped* one on the bill itself), but the forces of justice and virtue stand triumphant, and the price of a rush ticket is again \$1.

I hinted earlier that Beckman would be busy these next few days. Something of an understatement, but it will have to do. Things get started tonight at 8:00 p.m. with the first of this year's Armchair Adventures, Sweden. The Armchair Series (this year a series of ten films) presents an accomplished group of people who individually film and narrate travelogues. The narrative is provided live at the showing of the film. Dick Reddy is the man who will present Sweden tonight. There aren't too many tickets, but most likely there will be some at the box office.

Leonard Pennario will continue the activity in Beckman with a recital tomorrow night,

Sat. October 9, at 8:00 p.m. If you buy your ticket(s)—remember, you can buy two at rush price—tomorrow, for the price of a doublecheese at Tommy's you can have the works of Scarlatti, Debussy, Schumann, Gottschalk, and Ravel as played by a master.

Sunday afternoons were made for the appreciation of life's finer moments, and it is in this context that the Coleman Chamber Music Concerts are best seen. The first of these takes place this Sunday the 10th at 3:30 p.m. It will feature the Tokyo String Quartet performing works by Haydn, Bartok and Ravel (notice how his name keeps cropping up?). A feature that enhances the fine nature of this experience is the cost. Last Tuesday morning fifty free tickets were made available to Techers. In addition, fifty more were provided at a cost of \$1. You can only get one free, but what's fifty cents a head for such a date? I can't be sure, since for me it's not really Friday, but it is highly probable that there are some free tickets left. Check it out.

If your tastes for an afternoon run to the more idyllic, I would under normal circumstances recommend a visit to the Huntington Library, a sanity preserve

Continued on Page Eight

FOOD

Continued From Page Five

have your meals at "non-standard" times. While Techers may keep weird waking/sleeping hours, meal times tend to be surprisingly real-worldish. If you are fortunate enough to have access to a microwave oven, use it, and plan your menus accordingly.

6. Remember that you've got to clean up whatever mess you make, and a little planning can cut the mess down significantly. For example, broil things with aluminum foil on top of the broiler pan: then you can just throw away the foil and you might need to wipe the broiler pan with a damp sponge, as opposed to scrubbing it for 15 minutes with a brillo pad. If you're using an electric stove, remember that the heat doesn't go away when you turn the switch off, so don't put pans back on the stove after you've dished part of your creation out of it. If you do, you will create a layer of carbon on the inside of the pan, and incur the wrath of people living near the kitchen who have to smell your mistake.

Well, there are probably some other useful tips that would be good to mention here, but I can't really think of them now. Next week I'll "review" the local supermarkets: prices, check cashing policy, convenience, etc., and two weeks from today I'll get back to reviewing restaurants. The restaurant section of the *little t* should tide you over until then.

Above all, remember not to keep bananas in the refrigerator.

—Dick Beatty

News Briefs News Briefs News Briefs

NSF Fellowships

The National Science Foundation will once again begin its process of selection of candidates for the Foundation's Graduate and Postdoctoral Fellowships. The applications will be evaluated by scientists that are appointed by the National Research Council. Final selection will be made by the Foundation and awards will be announced in mid-March 1977.

The fellowships will be awarded for study or research (it must be leading to a Master's or Doctorate for the Graduate Fellowship) in the fields of mathematics, physics, medicine, biology, engineering, and social sciences. Applicants must be U.S. citizens. The annual stipend is \$3,900 for a 12 month tenure for the Graduate Fellowship or \$12,000 per annum for the Postdoctoral Fellowship. The Fellowship deadlines for submission of applications is December 1, 1976 for Graduate and December 6 for Postdoctoral. For further information write the Fellowship Office NRC, 2101 Constitution Ave., Washington, D.C., 20418.

UCLA Concerts

The premiere concert of the 76/77 California Chamber Symphony Concert Series will be on Sunday evening, Oct. 17, at 8:00 P.M. at Royce Hall, UCLA. Entitled the Concertmaster's Feast, the program brings together concertmasters Stuart Canin, Sidney Harth, Sheldon Sanov, and Henri Temianka. Featured in the concert will be Vivaldi's Seasons and Maurer's Concertante.

The concert will also include the West Coast premiere of Benjamin Lee's Collage. All future concert will also be held at Royce Hall and include: Romero on December 5, Aaron Rosand on January 9, and Jan Peerce on February 6. Parking is free for all events. For more information call (213) 685-8944. Tickets can be purchased at UCLA ticket office at 650 Westwood Blvd., L.A., CA 90024. "Respected Delegates..."

The Model United Nations, a U.N. simulation, will have an organizational meeting on Thursday, Oct. 14 at 7:30 p.m. in Clubroom 1, Winnett. All old members, and anyone interested should attend. Tom Snyder, 35 Fleming, knows all about it.

Strange Folk Dancing at Tech

by Tom McCabe

Caltech, strange as it may seem, has in recent years developed into a center of folk dancing for Pasadena and the surrounding area. Every Tuesday night from 8:00 to about 11:30, approximately one hundred people gather in Dabney Hall Lounge for the "Young People's Dance-Out", where they boogie down to such popular steps as the Pasarelska, the Korobushka, and the Pogonissios, all traditional Eastern European dances.

The odd thing is that nowadays there are actually very few Techers involved. Most participants are either from PCC or Cal State L.A., or simply live in the area. This hasn't always been the

case. The weekly dance was begun back in 1971 by Techers and for Techers—namely several Greek undergrads who wanted to learn the dances of their homeland. Taught by Rand Waltzman, another undergrad, they practiced weekly on the top floor of the Keith Spaulding Building. Eventually, with Professor Tom Apostol as a faculty advisor they moved to Dabney and accumulated quite a collection of folk-dance records. The weekly event grew more popular and after a year the G.C.S. [sic?] assumed responsibility for running it. In the past few years, all the nearest folk dance halls, though popular, have been forced to close for various reasons, and

Continued on Page Seven

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Folk Dancing

Continued From Page Six

Caltech remains one of the few centers in the L.A. region that still holds regular dances. As such, it has become even more popular, filling Dabney Lounge every week.

Back in 1971, the dances were limited to traditional Greek folk dances alone. However, the influx of new people over the last few years has caused a transition to the more popular Balkan music, mostly from Bulgaria and Yugoslavia. Also, an occasional Russian, Israeli, African, or even American folk dance may be heard. Some are done with a circle or line of dancers, hands joined, stepping in unison. Others

have couples doing a fast polka-like dance. Some require a certain amount of skill and experience while many can be picked up by a newcomer right away. However, most of the people who come know most of the dances, either from classes they've taken or from watching others. For the uninitiated, lessons are given from 8:00 to 8:30 to anyone who comes for a nominal fee of twenty-five cents.

Mark Junge, who presently runs the dances, maintains that folk dancing is better than disco dancing. "There's not as much pressure on you," he said. You don't have to compete as much to get to know other people." Seeing all the smiling, happy faces in a circle of dancers makes this an easy claim to believe.

J'ai Bu du Café Noir

French red tape is enough to hang everybody in Los Angeles with and still have enough left over to run a few third world nations. One can't cash a check until one has a bank account. One can't get a bank account unless one is a French national. One can't become a French national unless one wishes to emigrate. If you're fortunate, the banks aren't required to provide this service, one can open an account with a student residence permit. Now about getting that permit...

All the forms (five of them with many quanta of fine print)

come exclusively in French with the biggest and meanest beast being the Dossier D'étranger. The first part is easy (flip through your pocket Larousse): Nom, Nom de jeune fille (pour les femmes mariées), Prénom, Né le (What the hell does that mean? I dunno. What haven't they asked yet? How about birthday? Sounds good to me.), Nationalité, Mode d'acquisition, and last, but certainly not least; Pièces justificatives d'état civil et de nationalité. Whew, made it through that section.

Skipping over Pièces Transmises and Réservé à la Préfecture -- alright, we dont have to fill that out -- one hits the real nitty gritty. Date d'entrée en France, Point de passage, Nature du titre de circulation transfrontière, Durée de validité, Libellé intégral du visa consulaire français, and Est-il entré clandestinement. Anyone swim across the Rhine? Good, answer non. Réclame-t-il qualité de réfugié? I'll give you a hint, quoth our mentor, you don't ever want to be a refuge in France. Thinking of the striking resemblance between this and those god awful frosh interest sheets, I moved on.

L'intéressé a-t-il servi dans l'armée française? Never thought about it, do they have recruiting offices in the states? ou les armées alliées? No, never. Hey, what about the Argentine Army? The Argentine Army? I don't know if they're allies of France or not. Come to think of it, now

that France is out of NATO, just who are her allies? Anybody here from Iceland or Iraq?

A-t-il des ascendants ou descendants ayant servi dans l'armée française? Yeah both of my twins. How far back do they want to go? Well when the hell did Louis XV die? My folks came over on the Mayflower...

Now that you've had a sampling of all the highlights of French red tape, head on down to the Prefecture and file. Depending on which processing clerk gathers all the forms in, one needs either two, three, or four photographs. Fortunately, as they do nothing but languish in a filing cabinet, they don't care what sort of pose one is in...

All of the paperwork out of the way I inquired when the permit would be mailed to me. Saints be praised! They would expedite the matter as I was only going to be here one year and I could expect a reply as early as Février. Perhaps I can cash my checks when I return to the U.S...

But not all was lost. A bank was found that would open an account strictly on the basis of a passport and now I run my finances through a wonderful institution whose abbreviation (and I jest you not) is CIA. Now I contend only with the bank door, which is permanently locked until one pounds on it long enough to gain the attention of the man running the little electronic button and he ascertains the fact that one is not really a potential bank robber. Ça va?

—Sandy McCorquodale

BUILDING BETTER BABIES

Continued From Page Five

for implantation into the womb of a volunteer, or for laboratory-grown embryos a la *Brave New World*.

Another such method involves cloning. Clones are sets of genetically identical individuals (for example, identical twins comprise a clone of two). Most domestic plants are clones. In the animal kingdom, cloning has been successfully achieved only with toads. An intestinal cell is implanted in an egg cell from the same animal. For some reason, the developmental programming of the intestinal cell then changes; as Professor Bonner puts it, "It says to itself, 'I could have sworn that a minute ago I was an intestinal cell. But now I'm a zygote. Oh, well. Here goes' and it develops into a normal adult toad identical to the original." However, Professor Bonner expects to read a report any day now of successful cloning of mice, then cows... (A genius has been heard to oppose cloning of himself or other geniuses on the grounds that the value of genius lies in its scarcity.)

Still another form of spreading beneficial genes throughout the population is often used with cows now: i.e., artificial insemination. "Sex is fun, but it's not the best way to make good people." With large sperm banks compiled from carefully selected donors, people would be able to brag that their children had the smartest genes on the block... Along the same line is the idea of fusing selected sperm and egg cells *in vitro* and implanting them after growing to the correct stage in development in the uterus of a volunteer.

Selective breeding in its various forms has been practiced to precision on all domesticated animals except for man. Profes-

sor Bonner believes that the next stage in evolution will occur through the application of these techniques to human beings. He described two different scenarios. In the first, a particular nation or group of people begins to apply these procedures to itself. The effects begin to give them a competitive advantage after a few generations. In order to successfully compete, everyone else follows suit, the net result being an increased rate of evolution of the human race, intelligently directed. In the second scenario, no one else follows suit. After sufficient time has elapsed, the two groups face the same situation that *Homo neanderthalensis* and *Homo sapiens* did—with similar results.

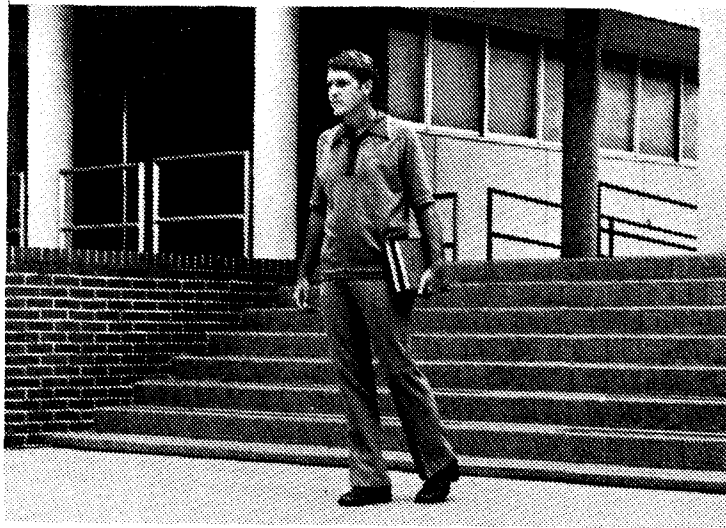
There is one unfortunate possibility which Professor Bonner did not emphasize in the lecture. It is certainly true that as much as we know about the organization of the human genome, we know very little about what comprises a neutral trait. Some apparently neutral but actually advantageous traits may very likely be closely linked to certain traits which would be deemed undesirable, and so unwittingly eliminated along with them. Some apparently harmful traits might actually endow heterozygotes with added survival capability; sickle cell anemia is a classic example. Similarly, many desirable traits would go unrecognized and perhaps randomly eliminated. We simply do not know enough of the genetic basis of man's traits, some of which cannot be accurately described or measured (e.g., intelligence) to take the chance of sending ourselves onto the wrong evolutionary path. Remember—most roads lead to extinction. The plot of a 1935 science fiction novel as summarized by Professor Bonner gives an example of the

subtle dangers involved. (*The Last and First Men*, Olaf Stapledon; reprinted 1968, Dover Press).

One billion years in the future, human beings have achieved a lifespan of 50,000 years through selective breeding. In the course of supporting the population and the technology which result, the planet Earth is despoiled, as is one planet after another. Eventually the only planet left is one with such a tremendous gravitational field that the people are forced to return to all fours. The book provides us with an epitaph for *Homo sapiens* which bears consideration:

"Mankind: First Up, Last Down"

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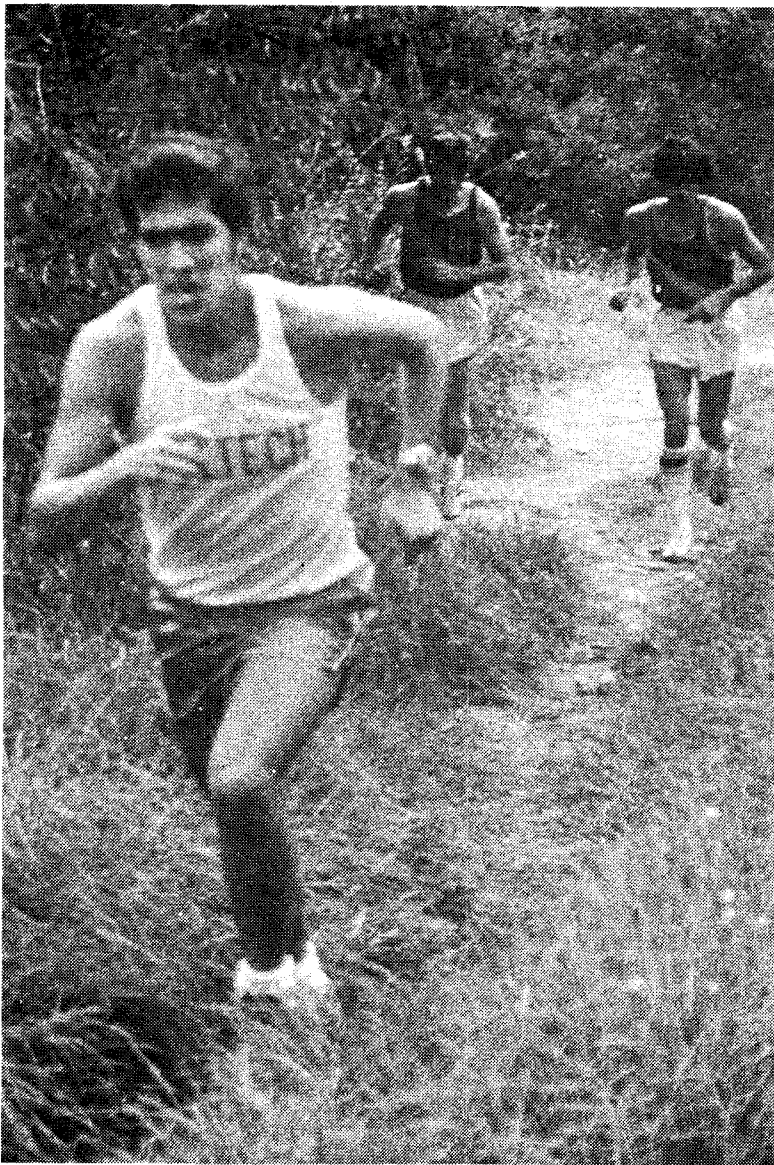
Beavers Engineer Lutheran Loss

The Caltech cross-country team followed up the previous week's heroic loss to Claremont-Mudd with a win over Cal Lutheran on Oct. 2., by a score of 22-33. The meet was considered an upset in that Caltech hasn't beaten Cal Lutheran in many years.

Steve Kellogg, Rob Bourret, and Brett Van Steenwyk finished 1-2-3 for Caltech in times of 27:39, 27:57, and 28:05 respectively. Garnering the top three places means an automatic win in cross country; however, a Cal Lutheran runner who looked like the winner of the race ran off the course. Even if he had finished first, fine races run by Eugene Loh and Eric Sirri, garnering seventh and ninth places respectively, would have rounded out the scoring against Cal Lutheran. Their times were 29:39 and 30:27, respectively.

Other times for Caltech include a 31:37 by Bill Gould, fine for his first race; 31:48 by Josh Rothenburg; a 33:33 by Tom McCabe; 35:26 by Dave Sivertsen, and a 39:04 by Ken Campos.

This coming Saturday, Caltech faces its two roughest opponents:



Harrier Erik Sirri endures to take ninth place in meet with Cal Lutheran.

Photo credit Dave Wheeler

Occidental and Pomona. The race will be held at Pomona-Pitzer at 10:00 a.m. over a relatively flat, fast course. The race also features Pomona's Brian Armstrong, last year's conference champ.

Sports

The CALIFORNIA Tech



But Where's the Horse

Even with the loss of four of last year's starters, Caltech's water-polo team has shown tremendous promise in its first three preseason games. The team has high hopes of actually winning a few games; possibly their first conference game in three years.

At the outset, things did not appear too promising. The team started its preseason without a single senior, and no goalie of any sort. However, a number of freshmen and returning players rose to meet the crisis. Three of the outstanding players are Bill Power, Doug Jones, and Josh Levin. Tech also managed to pick up a shallow water goalie in Steven Smith, who stands 6'8", but has had no previous experience. Returning player Pat Huber

has taken up the deep water goalie post vacated by graduate Peter Chang.

The preseason began with a scrimmage against Ambassador College. Although no score was kept, it was obvious to all involved that Tech dominated the game.

Last week's games, however, did not go as well. The first game of that week was held on Wednesday, at East Los Angeles City College (ELACC). Tech lost 13-6, but was handicapped by the loss of frosh starter Bill Power early in the game, when he was ejected for fighting with an ELACC player. One of Tech's outstanding players was Freshman Doug Jones, who scored 3 of our 6 goals.

The second game was a scrimmage against the Alumni. Tech lost this one 14-5. Here again, Tech was down one man when he was ejected early in the game for "verbally abusing" a referee. A second player was ejected later in the game, but Tech still managed to stop the alumni from scoring. Doug Jones was credited with 5 goals against the Alums. Pat Huber was playing well at deep water goalie, and was credited with several fine blocks.

The waterpolo team will see action again this Saturday, when it travels to San Bernardino Junior College to take part in an invitational tournament. Last year Tech finished second. If any spectators are interested in attending a game, it might be possible to arrange for rides with the team, or if you prefer to drive yourself, directions are available in the Athletic Office in Brown Gymnasium.

Tech About Town

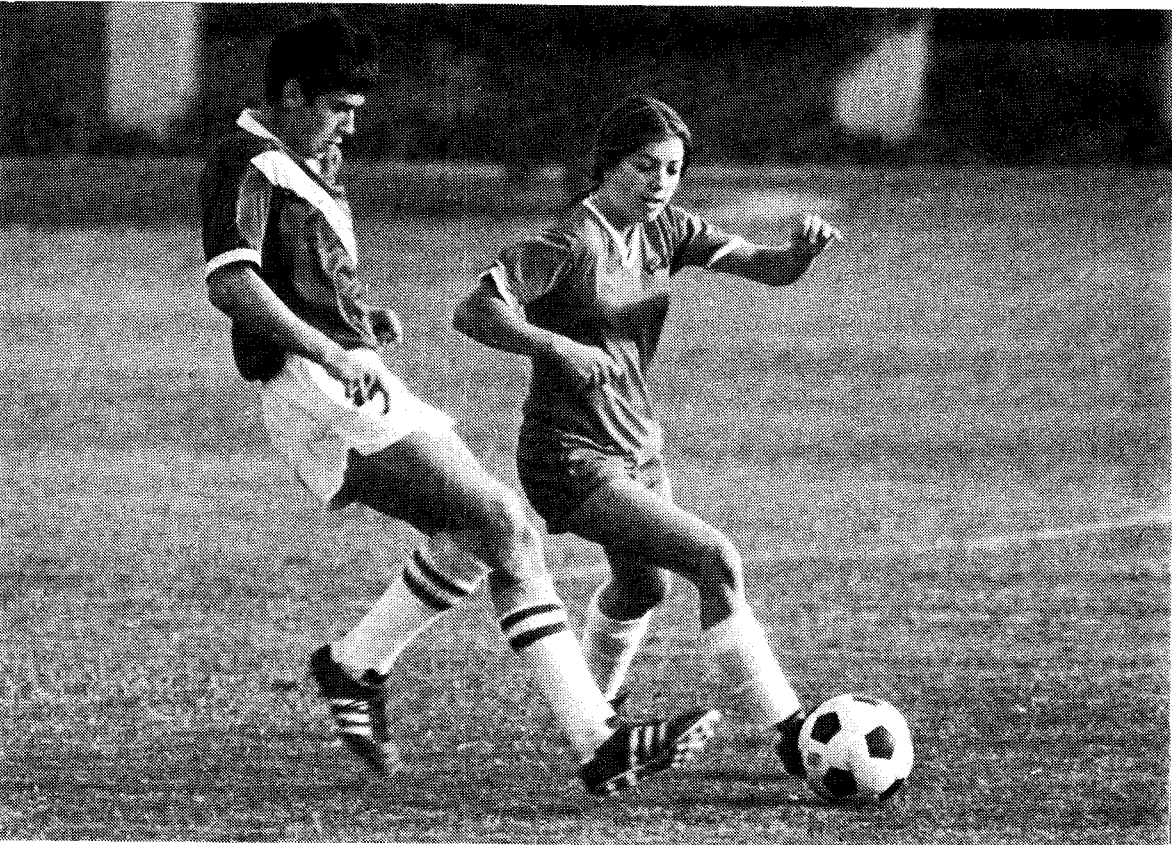
Continued From Page Six
masquerading as museum and art gallery set into beautiful gardens. Unfortunately for the local sanity level, however, the Huntington is closed in October. Extensive maintenance work is being done, and the wait is worthwhile. The Huntington will soon reopen in all its glory, keeping its normal hours of 1:00 p.m. to 4:30 p.m. Tuesdays through Sundays. 4:30? Could that mean the faeries start partying earlier here than in Kensington?

-Chris Harcourt

Brief News

Hillel Activities

The Caltech Hillel group will be sponsoring a wine and cheese get-together on Monday, October 11, 1976. It will be held at 4:30 p.m. in the Sukkah that will be built between East and West Bridge on the side facing San Pasqual. Hillel is also sponsoring a Simhat Torah celebration on Saturday, Oct. 16, 1976 at 8



Caltech Beaver steals (soccer) ball from E.L.A.C.C. in recent soccer action. (sorry, Leslie)

Photo credit John Loo

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