

The Big T
is here

The CALIFORNIA Tech

This
Year's

Volume LXXV

Pasadena, California, Friday, September 28, 1973

Number 2

The Grand Freshman Lottery

by Ryn Miake

Each night this week at approximately 6:30 p.m., a high percentage of the freshman class was observed to be suffering *en masse* from the renowned form of wandering known as Rotation Week.

These frosh descended daily upon each of the seven undergraduate houses to eat supper and get to know some of the people in each house. Of course, there was a clearly and carefully determined order as to which house the frosh visited on each night (something like: add your group number to your house number, multiply by e , subtract your grandmother's age but only on Tuesdays and Fridays in months with an r in them...)

However, in spite of this initial confusion, the freshmen managed to arrive at a house (usually the right one) and, once there, were able to see each house at the peak of its Splendour and Glorie. Waited meals were served ("Please sit at the upturned chairs...") at which everyone was treated to R&R's delectable cuisine (on those nights when there was enough to go around) as well as mid-dinner speeches of varying lengths by the house dignitaries and others.

It was after supper that the upperclassmen really found out what kind of freshman class they were dealing with. Stimulating and witty questions virtually flew back and forth between both sides ("Uh, what's your name?" "Where are you from?" "Do you actually rate us frosh on a scale from one to ten?" "I mean, does anybody *really* care what my opinion is?")

It should be said that Rotation Week is a vastly superior method of getting a room when compared to the dorm system. After all, what turkey would want to get stuck in \blacksquare (but, this is only my opinion).

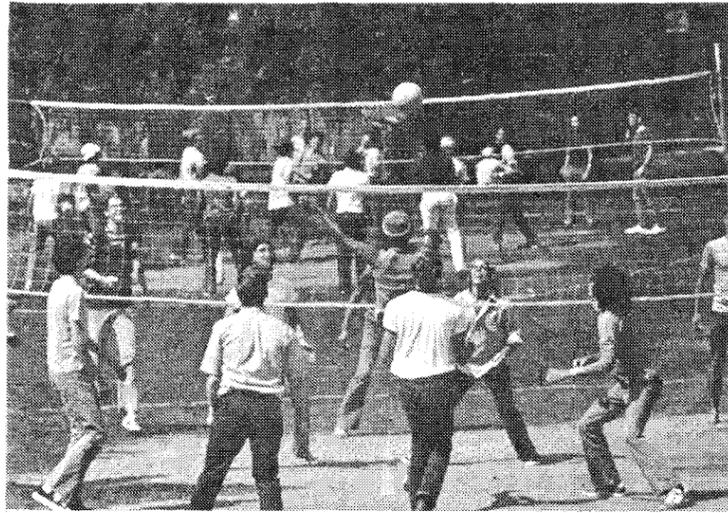
News Briefs

Your Energy Gets Drinks

CEAC needs help this week-end recycling materials that have accumulated at the center (in the parking lot behind Steele) from the past month. Soft drinks, beer, etc. will be available in return for your labor.

CEAC And You

The Caltech Environmental Action Council (CEAC) is a student organization open to members of the Caltech community who wish to express their concern for or appreciation of the environment. CEAC has participated in Earth Day activities, sold Sierra Club books and posters, sponsored camping trips, and maintained the Caltech



Co-opting Rights

by Melody Howe

This fall term has seen the addition of a new housing facility at Caltech: an all-women's dorm. Yes, there really is such a thing here. Located on Lura Street, it is a nice, old white house, located between two other nice old houses. You can't miss this one, though; it's the biggest one on the block, with a wet paint sign chained across the front porch (great for tripping intruders).

Inside you will find Helen Wheelock and all her stuff, five soon-to-be-furnished bedrooms, and several rows of bedsprings. At the time of this writing, the three other occupants (including two very properly brought up girls from Japan and Hong Kong) had not as yet moved in.

Theoretically, the house accommodates ten students, although this is an optimistic estimate, according to Helen. The girls have no maid service, no food service (there *are* advantages to off-campus living); the house contains a fully-equipped kitchen, however, courtesy of the Institute. Even linen service is included in their contract; all one has to do is traipse through Beckman parking lot over to the campus proper to obtain it. It all makes sense.

The idea for the house grew out of a survey conducted by

Dirty Dave and Dr. Nancy Beakel of last year's undergrads. Although most Techers favored the present on-campus facilities, a few women indicated an interest in having an all-women's house. Some of the reasons given for choosing this option included increased opportunities to make female friends, as well as getting a chance to study in a quieter setting (Scurves take note).

It has not yet been determined whether the north or south campus master keys are appropriate for this structure. Plans are currently underway in Dabney to construct a steam tunnel to that location.

'74-'75 Fellowships

Greenbacking Greedy Graduates

The California State Scholarship and Loan Commission has announced the opening of the competition for the 1974-75 State Graduate Fellowship Program with the distribution of applications to every California college, graduate school, and professional school.

State Graduate Fellowships are available to students who will be in their first or second year of graduate or professional school beginning September 1, 1974.

Approximately 250 fellowships will be available for the 1974-75 academic year and are tenable for graduate degree work in the sciences, social sciences, humani-

B&G Enterprises

No, We're Not Kidding

by Peter W. Beckman

"Seven hundred bucks — you're kidding." This was Dr. David Smith's reaction when he found out how much B&G had charged to install the now-famous (or infamous, depending upon your point of view) Caltech Octagon, which, for the past week, has been the focal point of a dispute between Dr. Smith and a number of Caltech students.

The Octagon was placed on Winnett Plaza early this summer. The students had not been forewarned, and a number of them objected to the installation of the sculpture (called everything from a gigantic diffraction grating to a modernistic steam tunnel vent) in what is generally considered to be a student area. (Winnett Plaza has been the site of most important student meetings, outdoor concerts, and speeches since it was constructed in 1962.)

No action was taken until last Friday evening when gigantic stop signs appeared on the faces of the sculpture. An accompanying note requested that Dr. Smith write a 2000-word essay on the artistic merits of the sculpture, and warned that if B&G attempted to remove the

signs the sculpture would almost certainly be damaged. (This was not based on knowledge of any insidious booby-traps; it was merely a reflection on B&G's well-known lack of competence.) Wednesday "The Mad Perpetrators of This Infamy" received a communication from D.D. (see page three), which made up for its shortness (a mere 500 words) with its lack of length. In line with their natural generosity (and the fact that someone had complained to the BOC) the members of the SFVN-A removed the sign (now on permanent loan to the PHWH&RR Gallery of Fine Art(s)).

The Octagon is the first object of the Caltech Sculpture Garden, which is vaguely based on UCLA's. Current plans call for the placement of at least two more art works in the Winnett Plaza area. The first, to be placed behind the grassy knoll, will be a memorial to the late Dr. Harvey Eagleson, a former Blacker House RA and Master of Student Houses. The other will be by Aldo Casanova, whose work has been exhibited at Caltech before, and will be placed in the grove of trees dedicated to (by?) (for?)

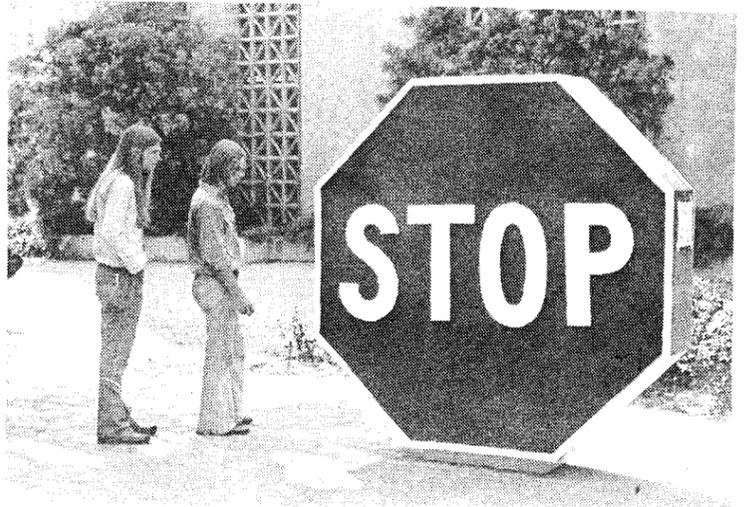
Continued on Page Eight

ties, the arts, mathematics, engineering, business, education and professional degrees in law, medicine, dentistry, veterinary medicine, pharmacy, and others which may be determined by the Commission.

Applications must be filed with the State Scholarship and Loan Commission by December 17, 1973. Announcement of winners will be on April 8, 1974. All fellowship applicants will be required to submit test scores from either the Graduate Record Examination, the Law School

Admission Test, the Dental Admissions Test, the Medical School Admission Test, or the Admission Test for Graduate Schools of Business depending on the specific academic competition entered. No test scores will be accepted from tests taken after December 15, 1973, and students must request that scores from previous test administrations be sent to the Commission by that date. Applications may be secured from California colleges and universities or directly from the Commission.

2001 A Bit Early



TECH FRESHMEN receive direction from the Oracle of Winnett Plaza, whose messages appear in pearl-white lettering on a blood-red background (similar to the books in which all is revealed). The Oracle serves as a diffraction grating for the Macroptics Dept. between revelations. Photo by Rich Gruner.

Lit 15

meets today

in

128 Baxter

at 12:01 p.m.

Student Shop Committee Election Meeting

All upperclassmen Shop members interested in the operation and maintenance of quality in the student shop please show up for the shop committee election at the Shop Saturday, Sept. 29 at 2 p.m. Traditionally this meeting has been rather poorly attended so probably anyone with an interest in the shop can become a shop committeeman.

Editorial

Too Much Responsibility

"I do solemnly swear (or affirm) that I will faithfully execute the office of the President of the United States, and will to the best of my ability preserve, protect, and defend the Constitution of the United States."—Oath of office of the President of the United States of America.

One of the most remarkable things that has yet appeared as a result of the various investigations into the bugging of the Watergate Hotel is Richard Nixon's interpretation of the function of his office. The President maintains that since he is assigned specific responsibilities under the United States Constitution, some of which can only be performed under strict confidence, he is the only one who can decide what information can or cannot be released to specific people, peoples, or groups of people. Instead of debating the idea of having one man be his own final judge, let's look at the logic behind this theory.

The President's pattern of logic (as near as it comes) seems to boil down to five steps:

- a) The Congress may enact legislation, allocate funds, and do whatever is legal under the law of the land,
- b) The President may execute those laws that the Congress passes, and may execute the provisions of the Constitution, with the exception of those that he believes are unwise or may damage the country,
- c) The Supreme Court may make "definitive" rulings about conflicts between the branches of government,
- d) The President shall abide by the ruling of the Supreme Court if he agrees that it is "definitive."
- e) The President is under no compulsion save the mechanics of impeachment and conviction.

President Nixon is quite probably correct on several of these points (these are points that have been brought up and with which the President has indicated agreement at his two news conferences). Points a), c), and e) make complete and utter sense. Points b) and d) are complete and utter hogwash.

The power of legislation under the Nixon system rests not with the Congress, but with the man who chooses what laws he will or will not enforce. The power of interpretation under the Nixon system rests not with the Supreme Court, but with the man who chooses what laws he will or will not enforce. The man who chooses what laws he will or will not enforce is carrying more responsibility than the men who framed the Constitution intended any man to carry.

We can only hope that the President will give consideration to the suggestions of the other branches of government and forget about points b) and d). If he does not, point e) may definitely be indicated.

—Dennis L. Mallonee
Eric H. Eichorn
Gavin D. Claypool

San Pasqual Closed; B&G Plants Grass

by Howard Zebker

San Pasqual is finally closed off in accordance with the preferences of the Caltech community. Work on this campus unification project started a short while ago and is to be done in two stages: first, the section between Chester and Campbell lab, and when that is fully completed, then the remaining stretch all the way to Wilson. Present plans call for leaving the area west of Hill and east of Chester untouched.

At the moment the blueprints call for the planting of grass and a variety of shrubs and small trees in the area. The planting will extend up to the buildings and down the various access roads such as the one directly west of Spalding.

A small road will be left winding through the trees for the benefit of fire department and other emergency vehicles.

Student opinion seems to favor the work presently being done. Said the member of one house, "Now we won't have to cross the street to pond someone." Perhaps they are not allowed to cross the street by themselves.

One thing about the project is sure, however. The cordoning off of San Pasqual is bound to decrease traffic casualties in that two-block stretch by over 40%.

CALTECH FORUM

An open letter to someone in the Caltech Community:

This summer I was instructing a ninth-grade student from a local high school in the language BASIC for the purpose of learning algebra. Lee Browne, Director of Secondary School Relations, was kind enough to grant me fifty dollars worth of time on his account (initials LFB). We were able to use it exactly three times.

By the end of July, you, whoever you are, had gotten into the account and changed the password to "JIEVS"—not the password Lee Browne and I had agreed upon when he gave me the account. I tried to contact Lee to see if he had authorized anyone else to use his account; too late, I found out he hadn't. Meanwhile, on Aug. 7, you apparently had a field day with this account. You spent over sixty dollars (my estimate) in one day using and storing such wonderful programs as STRTRK, MONPLY, LINED (why store this on the disk?—it's already part of the library), and four others.

I hope you had a wonderful time because when I next tried to have my student log on, the account was closed. Over eighty dollars had been spent on that account; my activities with my student could not have been much more than ten dollars.

Whoever you are, I hope I never meet you. You owe Lee Browne approximately seventy dollars, you owe the Caltech community an explanation of why you took unfair (and senseless) advantage of us. Most of all you owe an apology to a young high-school student who came to Tech to learn, and was turned away by your selfishness.

—Stephen Bitondo
Ricketts House

Out of Circulation

In reference to your informative article concerning the staff members of the *California Tech*: I noticed the conspicuous lack of mention of a certain long-time employee of your newspaper. This man is in a position, should he get upset, to take next week's newspaper and drive off with it to Mexico, thus preventing its normal distribution. I speak, of course, of that much ignored executive, Rob Olshan, Circulation Manager.

—Rob Olshan
Circulation Manager

Better Taste

Efforts to brighten the sterile and barn-like atmosphere of Chandler are commendable. But fifty-one vases of plastic? Ugh! Research in plastics, Yes; aesthetic fakes, No! The Institute deserves better taste.

—Ned Munger

First Choice, Second Class

by Mary Beth Ogilvie

This is a comment on the policy of letting women frosh have first choice of houses. It is directed to all undergraduate women.

For a long time, the feeling has existed in our society that women must be protected, that it is difficult for them to survive in the harsh world outside the home (in the world of politics, for example, or business, or science). Men can do it, of course, but men are tough; men are strong. Women, it was felt, were incapable of making their

own way in the world.

If we are ever going to break away from this concept, we must actively resist paternal efforts to "make life easier for women." For one thing, we should seriously question whether such things really do, in the long run, make life easier, and even if they do, whether or not that kind of "easy" life is really what we want.

We can't have it both ways. We can't claim equality with men and at the same time ask to be

Continued to Page Eight

"FRANKLY SPEAKING" by Phil Frank



'QUESTION 14 ASKS' WHAT HAS BEEN THE WORST U.S. DISASTER SINCE PRESIDENT NIXON'S ELECTION IN 1968?' IS THAT ALSO THE ANSWER?'

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THE ASCIT FRIDAY NIGHT MOVIE

FOOLS

This Friday at 7:30 and 9:00 p.m.
in 153 Noyes (Note Change)

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

TERM SCHEDULE

9-28	*Fools	11-9	Super Fly
10-6	†Joe	11-16	Silent Running
10-12	*Harold and Maude	11-23	Dealing -or ---Bag Blues
10-19	*Camelot	11-30	The Star Spangled Girl
10-27	†Little Fauss and Big Halsey	12-8	†The Candidate
11-2	The Cheyenne Social Club		

All movies will be shown on Friday in the Humanities Lecture Hall except †Saturday and *153 Noyes.

"Call Me Dirty David"**Text of Dr. Smith's Reply**

First, I don't know who you are, and since I prefer dealing with people rather than the faceless, I am hard put to know how to proceed. But you should know that I have not instituted an art acquisition program. In your enthusiasm to prove to the incoming freshmen what bmc's you are, you have picked the wrong target.

Just over a year ago President Brown appointed a committee of three to help the Institute in the acquisition of art objects and in their placement on campus. Those three were Henry Dreyfuss, a member of the board of trustees and surely the most distinguished industrial designer in the world; David Steinmetz, an alumnus of Caltech, and a well-known art collector; and myself as the faculty representative. We have acquired three, perhaps four, pieces for installation. The first is the octagon by Tony De Lap. Mr. De Lap's work is owned by a number of major museums, including the San Francisco Museum of Art, which has another octagon. The work in question here was on display at the Pasadena Museum of Modern Art until it was brought here for installation. Mr. Dreyfuss, Mr. Steinmetz, and I voted unanimously to have it installed here. Installation of the other works is pending and has been planned for the Winnett area, so that Caltech would have the beginnings of a sculpture garden. One of them was purchased by contributions from

friends, fellow faculty members, and ex-students of the late Harvey Eagleson, Professor [of] English at the Institute, long-time R. A. of Blacker House, and for a time Master of Student Houses. Another is being purchased with funds raised by the Women's Guild of the local chapter of the American Institute of Architects.

Mr. De Lap had some hesitations about having his sculpture installed here because of the well-known penchant of a few Techers to play pranks. He was afraid that his work might be damaged, and I must confess that I was worried about the possibility that workers on the Page House White Horse and Rail Road might try to turn into aesthetic authorities and in the process commit an irreversible idiocy. You might wish to know, by the way, that Mr. De Lap's sculpture is insured for \$18,000.00, it's [sic] market value. In the case of damage to it, the insurance company would settle and would proceed, as you might guess, to find out who did it and to collect. They have large legal staffs and damned near no sense of humor. I would suggest, therefore, that you proceed quickly and with caution to rectify whatever it is that you have done. If not, physical plant will have to do something. If they damage it, the fault will be legally yours.

Your action raises several questions, two of which are of immediate importance: should Caltech have works of art on

campus, and just who do you think you are?

As for the first, I am now not at all sure. Mr. Dreyfuss's unfortunate death has left us with the necessity of finding a replacement, preferably a distinguished person from outside the Caltech community. But would such a person want to join Caltech in an effort to beautify the campus? I am not at all sure and, for the moment, I wonder if we should try to find out. The sculpture that the Women's Guild is helping us to acquire could be put in Baxter, which was their original intention, as could be the piece that has been acquired in memory of Doc Eagleson, though he would have preferred to have it out in the Winnett Plaza. Actually, he was the one who first had the idea of a sculpture garden there and was in the process of negotiating with a major American sculptor at the time of his death. Nonetheless, the question remains. Should we on the committee continue our work, or should we quit now before the losses become too great?

The second question is related to the first. However crudely expressed, your opinion is now known. But who are you? How are we to determine whether or not to proceed? Whom do you represent? Should a small group of people operating in the secrecy and anonymity of the night be censors for us all? Do you have the right to block the

Continued on Page Seven

Prelude to Ellis**Feather Speaks on History of Jazz**

Leonard Feather, a columnist and critic for the Los Angeles Times and the Washington Post and well known authority on jazz, will speak in Ramo Auditorium on Thursday, October 4, 1973 at 8 p.m. The title of his lecture will be JAZZ: Yesterday and Today and will be liberally illustrated with films of Billie Holiday, Duke Ellington and other greats from the early days of jazz. His lecture is part of a jazz program put together by the Faculty Committee on Programs and the Beckman Ticket Office which will feature, in addition to Feather, Don Ellis and His Big Band in Beckman Auditorium on Saturday, October 6 and the Laurindo Almeida Jazz Quartet on November 10.

Feather is a well known and prolific author and composer; numbering among his achievements two encyclopedias of jazz entitled: *The Encyclopedia of Jazz in the Sixties*, *The New Edition of the Encyclopedia of Jazz* as well as *Inside Jazz*, *The Book of Jazz*, and (his latest) *From Satchmo to Miles*. He has recorded with Louis Armstrong and has written for Count Basie.

This Tuesday Mr. Feather consented to be interviewed by the Tech over the telephone about Jazz in the world today and his lecture next week. Speaking from his North Hollywood home which doubles as his office Mr. Feather was very cordial and attempted to explain, in the course of a short telephone interview, what were actually much more subtle and difficult ideas than could be adequately expressed verbally over the phone.

The question, "What is jazz, and how does one identify a particular composition or performer as jazz?" was the first one posed. "Listen to it," he said. Jazz is a very hard to define art form and one which seems almost invulnerable to the devastation of catalogers and classifiers. Jazz is made up of wildly diverse forms; the earliest jazz was essentially folk music played by imaginative but uneducated performers; while the contemporary 'free jazz' has more technical musicianship about it. Today's 'free jazz' is a 'different world' from the early days in New Orleans, though it is not even meaningful to say that one is better than the other.

When asked to try to describe what distinguishes good jazz Mr. Feather replied, a set of subjective criteria for evaluating an extremely subjective art form. Listening is the key again; but listening for such qualities as inspiration, feeling, technique, and empathy among the performers. Whether or not the music 'swings' is an important criterion, though, unless one fakes it or it comes naturally the ability to detect 'swing' probably one of the most difficult to acquire skills in the world.

The size of the group is of no consequence in jazz context and the wide diversity of jazz groups reflects this, from small one, two and three man groups

all the way up to the 'big bands'. The important thing is a quality of the music which unmistakably labels it 'JAZZ' to those who hear it.

The existence of a certain similarity between jazz and chamber music has been remarked upon by various persons on random occasions in particular with regard to the small and medium sizing of the groups and the widespread improvisation going on in both kinds of performances. Mr. Feather disagrees with this particular conception of jazz as chamber music and certainly the big bands are clear counter examples.

Feather brought up the recent resurgence of jazz in this country and attributed much of the recent revival of its popularity to the debt owed by pop and rock music and musicians to jazz; a debt which increasing numbers of contemporary rock musicians are recognizing to their fans. Jazz has

Continued on Page Four

Have You Any Free Saturdays?

by Jeff Mallory

Remember once last year when you got up before noon on Saturday: You'd been up all Friday night for some incredible bull session and were wandering around campus looking for a Dr. Pepper machine that worked when you realized there were these vast quantities of little kids trundling about with books and papers, looking like they actually went to school here.

If you can remember that much, you probably also remember that they actually did go to school here as participants in Tech's Saturday School, a program sponsored by Lee Browne and his Office of Secondary School Relations.

Well, it's school time again, and Mr. Browne is preparing for yet another year of Saturday School and is looking for Techers to teach some of the classes. This is not a tutoring type arrangement but a more formal classroom approach. Subjects of the twenty-five classes range through many fields, with the most popular courses in chemistry, astronomy, biology and computers.

Seven hundred parents, educators and students showed for the organizational meeting held last Tuesday night in Ramo, resulting in an enrollment of 300 Jr. High students.

Classes will run from 10:00 a.m. to noon on Saturday mornings, starting October 6 and running for twenty-eight weeks. Mr. Browne mentioned the possibility of both pay and a free lunch for those teaching.

The Saturday School developed out of Mr. Browne's PL 104 (Educational Issues and Problems) class, where new and innovative educational systems are the basis for discussion. Anyone interested in teaching should contact Mr. Browne (x2207) as soon as possible.

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the
critical
ear

Hard Nose the Highway by Van Morrison; Warner-Reprise BS 2712.

Van Morrison has been a name in the rock genre for several years. He was lead singer with the group Them, and for much longer he has been a star on his own. At least once a year he comes out with an album, usually of high quality and including at least one hit single. *Hard Nose the Highway* is this year's album, and Warm Love the single.

The primary reason for listening to this album is that otherwise Warm Love will be the only one of these songs to endure, a tragic thought indeed. The lyrics of some of the songs don't look very good on paper, in fact, some of them are terrible poetry. The one non-Morrison-written song on the album, Green, provides us with interesting moments, such as: "It's not easy bein' green/ Having to spend each day the color of the leaves."

The song that I found most interesting is one that I have not heard played on the radio. In The Great Deception we find the following lyrics: "Did you hear about the great deception/ Well the plastic revolutionaries take the money and run/ Have you ever been down to love city/ Where they rip you off with a smile/ And it don't take a gun." Van has even more endearing words for some of the members of his own profession: "Did you hear about the rock and roll singers/ Got three or four Cadillacs/ Saying power to the people, dance to the music/ Wants you to pat him on the

back."

Van Morrison may have turned a little bitter, but his music is pretty good. If you liked any of his earlier stuff, give this one a listen.

Foreigner by Cat Stevens, A&M SP 4391

This album consists of one old song, four love songs and an ink sketch of a polar bear. One of the love songs, "Foreigner Suite," is one entire side of the album. It is not the best song he has recorded, but it is the longest. Lines like "I've seen many other girls before, ah but darling/ Heaven must've programmed you" do not belong in a long song, because they force you to realize how long you've been sitting there listening to the same song drag on. The other side is fairly typical Cat Stevens music, but contains nothing that would challenge his best music. The lyrical love songs are there, the nominal hit song ("The Hurt") is included, but somehow this album just isn't as good as, say, Tea For the Tillerman. If you like Cat Stevens, you will probably buy this album and like, but I doubt if it will make many new converts. Somehow even the polar bear doesn't seem up to par.

Pat Garrett & Billy the Kid by Bob Dylan, Columbia KC 32460.

This is the soundtrack from the movie of the same name, a

western of a sort with Kris Kristofferson, James Coburn, Bob Dylan and a host of others. "Knockin' on Heaven's Door" is receiving a lot of airplay, but the rest of the album is mostly just ordinary soundtrack stuff. Dylan only sings about four songs, and the rest are instrumentals. Booker T. Jones, Roger McGuinn and Byron Berline do a lot of the music, and it is good. Just don't expect it to be much of a Dylan album, because it isn't. Accept it as a good album of music from a film, and you will probably enjoy it.

-Nick Smith

The Fabulous Osipov Balalaika Orchestra; Angel SR-40120

Every once and a while a record appears that truly sounds alive with excitement. "Switched On Bach" was one. This record might very well be another.

The balalaika orchestra is an ensemble of three-stringed instruments that sound very much like mandolins. However, this particular group contains more than just balalaikas. It also consists of standard instruments such as the woodwinds (not to mention the spectacular interpretation of directors Viktor Dubrovsky and Vitaly Gnutov) has transformed what could be a very dull recording into a breathtaking masterpiece.

It is unfortunate that the titles and composers on this record do not match the eye-catching ability of "Switched On Bach" but they do describe the works quite well. Each piece from the tranquil "At Dawn, Sweet Dawn" by Vera Gorodovskaya to the pulsing "Dance from 'Byelorussian Suite'" keeps the listener spellbound to the very end.

This is far from rock 'n' roll or jazz but the recording is so different and exciting that it may well become a sellout.

-Dave Peisner

stOPP Car Rallyes

On Saturday, October 6, the Elysian Fields Rallye Club is presenting "stOPP again," a skill-gimmick car rallye starting out of the southeast corner of Montgomery Ward's parking lot on Rosemead Boulevard four miles south of California in Rosemead. Entry is \$3.50 per car regardless of the number of people in it. For each seven cars entered, there will be one trophy awarded.

For those not acquainted with rallyes, there will be a special classification for first-

timers, who will compete only amongst themselves. A skill-gimmick rallye is not based on time, speed, or driving skill, but on the ability to interpret deviously worded rules and route instructions. The rallye presents a good opportunity for upperclassmen to get to know their new housemates; in fact, a 50-cent discount will be given to cars containing at least one Caltech freshman. Registration is from 6:30 to 8:30 p.m. For more information call 449-8344 or look for David Smallberg.

Feather

Continued from Page Three

never been in danger of dying in America, and is certainly in no such danger now. It is becoming more respectable as an art form; schools which in the past would barely recognize the existence of jazz are now hiring jazz musicians to teach courses in Jazz. This acceptance is resulting in an ever increasing crop of new jazz musicians produced yearly all over the country.

Jazz is considered to be the only art form to have originated in America and as such it often serves to express the basic feelings of many different groups and individuals. Jazz speaks to almost everyone and almost anything you could want to say can or has been said with jazz.

For the past seventeen years jazz has been serving to bring a taste of America to the rest of the world. Jazz has been extremely well received abroad, as scattered and often ignored newspaper articles testify. Louis Armstrong has played to enthusiastic crowds of 90,000 and more in Africa while other jazz greats have been extravagantly welcomed in the Soviet Union, the Middle East and Western Europe.

In this short interview, Mr. Feather was able only to cover some small areas in the neighborhood of jazz. Certainly there was much of importance which there was neither time nor space to say. If you are interested in any way, no matter how slightly; come to his lecture next Thursday. You will most surely come away the better for it.

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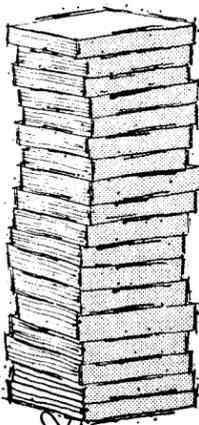
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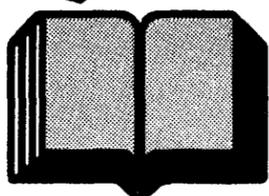


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NEW!

We Didn't Have Much Copy . . .

One Hundred Years Left to Decide

The next 100 years will be the most critical in mankind's history and will go far toward determining the future of the human race, Dr. Bruce Murray, professor of planetary science at Caltech, predicted in the final lecture in the "Next Billion Years" series sponsored by NASA's Ames Research Center, UCLA Extension, the Los Angeles Community College District and the Astronomical Society of the Pacific.

Dr. Murray, scientist, author and co-investigator of the TV experiment on the Mariner 9 spacecraft that produced the spectacular new panoramas of Mars, declared that as population and technology expand, "a head-to-head conflict between dealing with people's misery in the short term and preserving some natural environment in the long term," will become a primary issue.

Describing what he calls "representative" paths that mankind will follow in the next 100 years, he listed four possible outcomes of the present.

"In the first possible outcome, nations would have an increased ability to destroy each other. There would be failure to develop a world governing system. Warfare would increase, eventually resulting in deterioration of the industrialized nations. The world would become totally polluted, with populations governed on subsistence levels.

"Most of the world would be living in a rather barbaric state. The classic limitations of population—famine, disease, war—would be rampant. Some kind of equilibrium would be reached, with rivalry, not cooperation, dominant among nations."

The second possible scenario Murray calls the "superstate." He uses the word "scenario" as defined by systems analysts to describe possible outcomes.

"A superstate would evolve if the present tendency toward larger and larger bureaucracies and centralization within the 'have' countries continues, and nations' governing systems merge to some extent through economic cartels and monetary and political agreements to the point where there are essentially interlocking bureaucracies of the 'have' countries.

"Under this alternative the 'have not' nations are left to solve it on their own, while the 'have' countries run the world. This situation could happen if the tendency toward central government continues as it has in the past 30 years in the United States, Russia and elsewhere."

In the third Murray scenario, the "imperial" one, he considers what would happen if one of the superpowers took over and started running the world. With this option, he points out, there would be a very real danger of a nuclear war while the superpowers struggle for supremacy. The imperial situation would not last indefinitely because rulers eventually get tired of subjecting the ruled," observed Murray. "But it certainly could last for

100 years."

The fourth alternative he labels the "World Confederation". "There would still be relatively sovereign nations, but in order to meet environmental and economic problems they would be willing to enter into progressively more meaningful international arrangements. Multilateral agreements would necessarily restrict their sovereignty in some areas. They would have to be willing to do this without being conquered or being taken over by a superstate. This would permit the greatest possible diversity of people and customs and cultures. On the other hand, the superstate tends to make people very homogeneous, while the imperial solution permits some diversity of people, but certainly has no place for democracy."

These four possible outcomes, or scenarios could point the way toward one of three long-term alternatives, according to Murray.

The first of these long-range alternatives he likens to the "Brave New World" originally described in Aldous Huxley's novel by that name, written 40 years ago. It consists of artificial people in an artificial world. Genetic engineering is widely practiced. No democracy is left, and very little of the past in any

form.

The second long-range possibility would result in very homogeneous people, in culture and attitudes, spread over the whole world. Instead of having a strong central government, authority would be diffuse. There would be a lot of local authority. Governments would always make the "right" decisions because all the people would be similar and have similar views. "This is not a very attractive alternative for Americans," Murray observed, "because our democracy, indeed our very spirit, is based on diversity, on individuality."

The third long-range alternative he calls the "international magna carta." "This could be an outgrowth of the 'World Confederation'," he explained. "Nations would negotiate limits to authority and delegate authority to a central ruling group, which could perhaps even be an outgrowth of the United Nations, but more likely would be an altogether governing group. It would have checks and balances, international law, courts. It would lead to diverse people living under law."

The superstate scenario and the imperial alternative could easily evolve into the brave new world, Murray said. The super-

state also could gradually change into the homogeneous people long-term alternative. Finally, the world confederation could evolve directly into the international magna carta.

"This latter is obviously the one I prefer," said the Caltech planetary scientist, "but what actually will happen depends in large measure on how much the present cares about the future."

"I want to emphasize that man has demonstrated the ability to adapt—at least to the physical environment," Murray declared. "Man is a creature of the ice age and we're still in the ice age. Man grew dominant because of his superior ability to adapt to changes brought about by the ice age. Man grew up as a distributed organism—with family units distributed around. He is rapidly converting himself into a colonial organism like coral, and can't survive except as part of a large community. That's a fundamental change in his evolutionary character."

As to whether man may find obstacles overwhelming on earth, Murray emphasized, "We can't find our future elsewhere—on another planet. We've got to make it here. How we live. How much energy we use. How we treat the earth. These are the

things that will determine whether we will be able to create that heaven on earth in the future."

The scientist predicted a new era for humanity sometime ahead when the Earth begins communicating with other intelligent civilizations elsewhere via radio and declared, "The human race has to go through some very tough times. Its future will be determined by how wise and how strong we are in going through these times."

Sorry, Ph 205

Dr. Richard Feynman is off to Scandinavia next week to receive another award. It is the Niels Bohr International Gold Medal (not another Nobel Prize), presented by the Danish Engineering Society.

The award honors Feynman for his "outstanding work for the peaceful use of atomic energy." Denmark's Queen Margerethe will present the award to Feynman. His wife and son will also be in attendance.

Feynman, a 1965 physics Nobel Laureate (surprise!), has many previous honors, including both the Albert Einstein and E. O. Lawrence awards.

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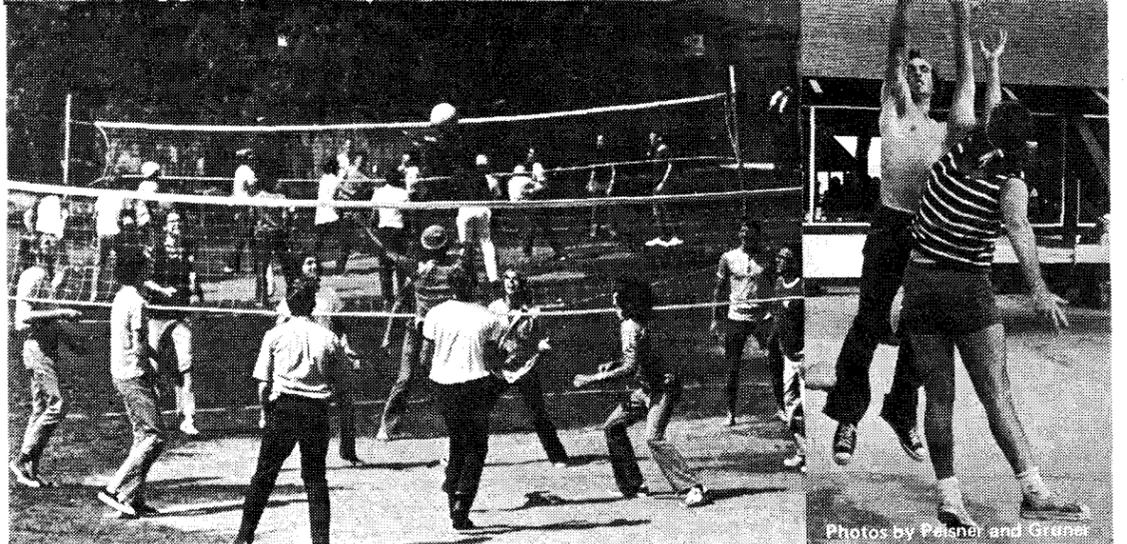
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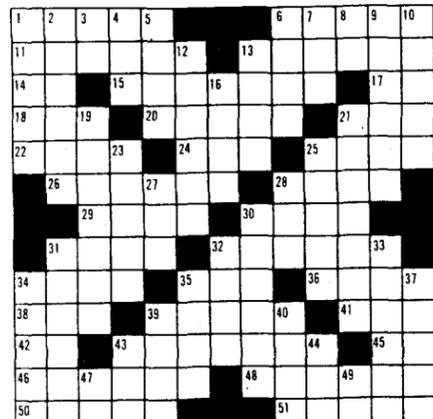
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crossword puzzle

Answer to Puzzle No. 109

ACROSS	DOWN	
1 Sign of the Zodiac	1 Robust	SIP RICA CRAB
6 Icy coating	2 Turkish inn	TAI ACES HAPS
11 Colors reddish-brown	3 Pellet	EGG CHIHUAHUA
13 Treeless plain	4 Research (ab.)	POPPY GEAR
14 Continent (ab.)	5 Curves	ER FEN LIME
15 Sign of the Zodiac	6 Jail (coll.)	WON JAR LINUS
17 Bovine	7 Sign of the Zodiac	AN KEN RYE SS
18 "La-la" 's companion	8 Epistle (ab.)	SCENT SEE DEE
20 Certain tactics	9 Epic poem	PELE ANT HE
21 Saratoga Springs	10 Native of Houston	AERO SIAL
22 Cheer	12 God of sleep	WOODSTOCK EMU
24 Oriental game	13 Mess hall regular	ERNE EPEE ROC
25 Candid	16 Old Portuguese coins	DEED SYNE TRY
26 Sign of the Zodiac	19 With ice cream	
28 South African lily	21 Oxford minister famous for unintentional interchange of sounds: "It is kistumary to cuss the bride."	
29 Dutch river	23 Waikiki bashes	
30 Combining form: pertaining to Mars	25 Liquid part of any fat	
31 Word	27 Sprinted	
32 Sign of the Zodiac	28 Long --- of the	
34 Helps		
35 Contemptible person		
36 Verne's Captain		
38 Befuddled (Scot.)		
39 Elementary		
41 Rensselaer Polytechnic Institute (ab.)		
42 Prefix: not		
43 Rigorous		
45 Man's nickname		
46 Pass		
48 Anemia of a certain cell		
50 Pampered one		
51 Purchaser		



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Smith's Reply

Continued from Page Three

work of a committee duly appointed by the President of the Institute? Perhaps you feel that he doesn't have the right. If you feel that the committee should have a student on it, which isn't a bad idea but which is not a question to be decided by me, then why don't you ask either the president or me, in which case I would forward the idea to him with a list of names of students who have indicated some interest in and sensitivity to art. Universities are supposed to be places where ideas are talked out, in which information is freely exchanged, not places in which an anonymous few, acting on their own as if they were S. S. Gauleiters, can by force determine what others will be permitted to see. Perhaps you could institute a book burning to ease your ennui as a replacement for practical art criticism. And smile when you call me Dirty Dave. Unless you're a friend, you'd better call me Dirty David.

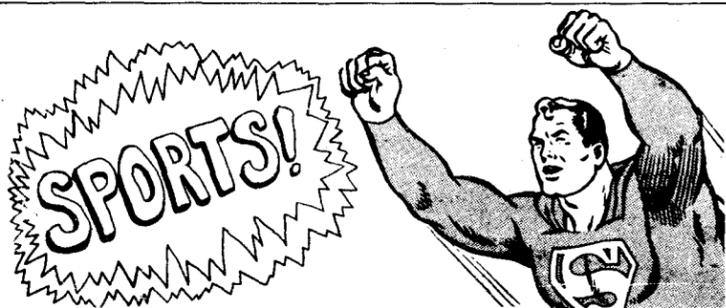
-David R. Smith

CCF Gets Together

There will be a get-together for people interested in the Caltech Christian Fellowship Saturday at 2:00 in Tournament Park.

give the nice paisley horse a sugar cube...

Mark Johnson



Polo Team Gets Soaked

by I. M. Wett

Tech's starting water polo team played well against Chapman College Wednesday, but after some of them fouled out, the frosh substitutes were nearly drowned by their more experienced opponents. Tech was outscored 8-1 in the second half, en route to a 13-5 defeat.

Russ Desiderio, co-captain of the 1973 tankmen, scored the first goal of the season early in the first quarter. Soon after this, Bob Kieckhefer scored on a breakaway to give Tech a 2-0 lead.

Downhill From Here

The score never got any better, however, as Tech's lead was cut to 2-1 at the end of the first quarter. Steve Bitondo and Howie Bubb gave Tech two more tallies in the second quarter, but Chapman led 5-4 at halftime.

Bitondo's goal early in the third quarter concluded the scoring for Caltech. By this time many of the starters were in foul trouble, due to a great number of questionable calls, and were forced to play conservatively.

By the middle of the fourth quarter three starters had fouled out, so frosh Jim Seidel, Mark Visser, and Mike Wilson got a taste of varsity action only a few days after first picking up a water polo ball. Though they were somewhat bewildered by the rapid action, the frosh should rapidly improve and be capable substitutes when league games start on October 17.

New Rules

This game was Tech's first under new intercollegiate rules designed to make the sport even

more exciting (more bewildering?) than it traditionally has been. Ejection fouls, which provide much of the excitement in AAU and international competition by giving one team a one-man advantage for 30 seconds, are now included in college games. Chapman scored on two of its three man-advantage situations Wednesday; Tech failed to convert on either of its two.

The tankmen will play two games tomorrow at the Loyola Tournament. After this they will return home for a game next Wednesday against Loyola. Come on down to the pool and cheer them on! And if you are interested in being the team's manager or an official at games, contact coach Ed Spencer immediately, please.

One Loss, One Tie

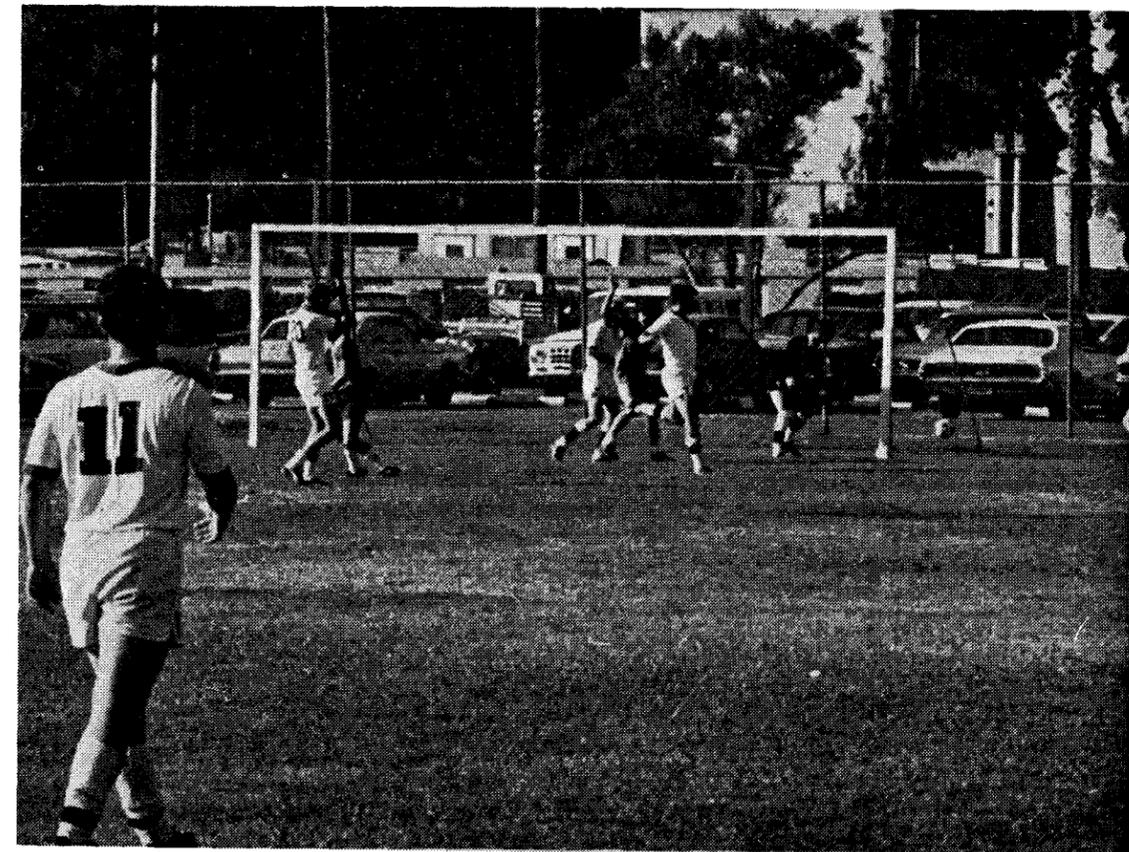
by Beaver Bill

Azusa-Pacific routed Tech 10-0 in the first exhibition soccer game of the season. The outcome was no shock since the Beavers could field only ten men, one shy of a full team. Coach Don Cameron's postgame remark was no shocker either: "We can only go upward from here."

He was right.

Tech held Rio Hondo to a two-all tie with a spectacular goal by John Dilles in the second half of Wednesday's game. This was shortly after Peter German scored Tech's first goal of the season, late in the first half.

A high lob shot which



CALTECH SOCCER TEAM squeezes in the tying goal just before Feeney runs out of film and leaves. Foto by Feeney

No We're not Kidding

Continued from Page One
the Class of 1963. It is also possible (but not probable) that the sculptures by Zajac which

currently reside outside the Baxter Art Gallery will be moved onto the plaza.

Eventually, it is hoped that Caltech will become the home of a large sculpture collection. Two new areas being opened up - the Throop site and the San Pasqual mall - would be perfect for the outdoor display of sculptures. The members of the Committee for Art Acquisitions and Placement hope that the presence of a Caltech Sculpture Garden will help induce owners to give or loan sculptures to Caltech.

Anyway, some of you may be wondering what D.D. bitching about \$700 (\$745.00 to be exact) has anything to do with this article (this is godawful journalism, but I don't care it's too late at night and I drank too much sherry at the reception). Well, D.D. thought that this was much too much money (we all agree - P.W.B., R.F., A.E.O., E.H.E., etc.), and so he asked whether the famed PHWH&RR would be interested in mounting the next two sculptures (we are). So that's the story. Good night.....

bounced off the fingers of the Tech goalie and into the net ten minutes into the game gave the visitors a 1-0 lead.

Twenty minutes later German, a freshman, angled in a goal from 15 yards out. With but two minutes remaining in the half, Rio Hondo scored their final goal.

Ten minutes into the second period freshman Rick Chapman headed the ball across the front of the goal box to John Dilles, sophomore captain from Fleming. Dilles then kicked it into the goal, setting the final score at two-all, thus ending a nine game Beaver losing streak.

Coach Cameron expects to have more players out for tomorrow's home league opener against Claremont-Harvey Mudd.

Second Class

Continued from Page Two
protected and pampered. We will never be able to compete on an equal basis if we must have special privileges in order to survive. There is considerable merit to the argument that because this is a male-oriented, male-dominated world, we should do anything we can to tip the scales in favor of women. That is part of the reason for having affirmative action programs for employment of women. But getting first choice of houses in no way improves the status of women students at Caltech; it only slows our progress towards social equality by continuing the tradition of paternalism.

Also, remember, the first meeting of the Women's Coalition is 5:30 p.m. Tuesday, October 2, 1973 in the Health Center Lounge. Men are welcome, too.

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10:00 a.m.	Soccer	Claremont-Mudd	Home
10:00 a.m.	Water Polo	Loyola Tournament	Away
11:00 a.m.	Cross Country	Redlands & La Verne	at Puddingstone Dam
Wednesday, October 3			
3:00 p.m.	Soccer	Pomona-Pitzer	Home
4:00 p.m.	Water Polo	Chapman Tourn.	at Fullerton JC
Saturday, October 6			
All Day	Water Polo	Chapman Tourn.	at Fullerton JC
10:00 a.m.	Cross Country	Cal Lutheran & Biola	at La Mirada Park
10:00 a.m.	Soccer	Whittier	Away
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