Tech Oak

The old Engelmann Oak Tree between Gates and Dubony is in a critical state, which you may have noticed if you have a habit of walking into barricades. A large area around the tree has been cordoned off since Monday morning, which as the posted notices explain is due to the imminent danger of the oak toppling over. The action was taken on the recommendations of Dr. Hudson and Dr. Housner of Engineering, who warned Physical Plant on October 28 that the situation was considered to be an emergency and that the tree could fall at any time.

The oak is actually suffering from three separate and probably unrelated conditions which were first noticed several weeks ago. Most seriously, some of the upper limbs are infected with a fungus identified by the Soil and Plant Lab Co. as heart rot, which leads inevitably to slow death if untreated or too far advanced to be cured. All that can be done is to remove the affected limbs; the extent of the infection will not be known until this is accomplished.

Inspection of the tree revealed that it also has oak root fungus gnawing at its root. The Dr. Harold Mitchell Co. reported that the disease is well-developed and advanced, but that the oak is probably not injured fatally or seriously. The fungus occurred because for many years the crown has been buried three feet below ground, a situation that is conducive to root fungus growth. It was suggested that the infected tissue might be removed and that in the future the crown be left exposed to air.

As if this were not enough, the old oak has developed a

Continued on Page Six

News Briefs

Inoculate Now, Avoid Rush

The Health Center reports that flu inoculations are still being offered and are now available to spouses of employees. The charge is still $2.00 for each person payable at the Health Center. There is no charge for students presenting their identification cards. The Health Center is open Monday through Friday on a 24-hour basis and Saturday through noon. If you have any questions, call the Health Center on extension 2394.

Cancer Your Health

All registered Democrats are limited to attend two party caucuses to be held tomorrow at 9 a.m. The caucus for the 22nd Congressional District will be held at the Evangelical Baptist Church, 855 N. Orange Grove, Pasadena and that for the

26th Congessional District will be at Monrovia High School, 845 W. Colomado, Monrovia. For further information call 790-0490 or 794-1254.

Tanketta

Tank Tank

There will be an armor miniatures simulation game this Saturday evening at 7:30 p.m. It will be in Dubony Hall Lounge, unless Cowan blew it again. Bring your own armor-placing dolls.

Sunday Afternoon

In a Jugular Vein

The battle of the bands will be going on this Sunday, November 10th, from 4:30-5:30 p.m. in Dubony Lounge. Under the auspices of the Calltech Y, the CIT Jazz Band, the CIT Jazz Sector, and the CIT Division Band (also known as Yul Gibbons and the Wild Hickory Nut) will be providing some very good sounds.

Clubbing Bridge

If your name has an e or an a in it, and you can play bridge, come to bridge club! Meetings are at 7:30 Saturday evenings in Winsnet. Bring your friends, dogs, homework, etc.

More Stimulating Organ Concerts

Ver G. Will present the West Coast premiere of Olivier Messian’s Meditations Sur Sainte Thérèse on the organ at All Saints Church, 132 N. Euclid Ave., Pasadena, at 4:00 p.m. Sunday, November 8. M. Gillock’s debut of the work last fall was hailed as a virtuoso performance of the finest contemporary organ music. Don’t miss out on this fine concert!

MUSICAL!

Auditions for the 1975 AICT Musical will take place tomorrow November 9 in 25 Bacter from 10 a.m. to 9 p.m. If you are interested in being a cast member, in the orchestra, or on the staff or crew, please come to 25 Bacter sometime Saturday. We need singers and actors, (there are non-singing roles in the production), a full orchestra, and lots of help with sets, costumes, props, etc. All faculty, staff and students are welcome. If you have any questions, please call Flora Boyer x2357.

Senior Oak Very Ill; Plans Made to Save

by Alan Silverstein

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Philosophizing On Science

by Paul A. Freund

In his recent book, "The Liberal Arts Justified?", Paul A. Freund argues that the liberal arts are indispensable to a free society. Freund contends that the arts are not just a means to an end, but an end in themselves. They are necessary for the development of critical thinking, creativity, and a sense of community. He argues that without the liberal arts, we risk reducing education to mere vocational training, which would lead to a dystopian society. Freund's arguments are persuasive, and they make a compelling case for the importance of the liberal arts in education. However, some may argue that the liberal arts are too abstract and not relevant to today's world. Freund's response to this criticism is that the arts are not just about entertainment, but about understanding the human condition. In short, Freund's book is a powerful defense of the liberal arts, and I highly recommend it to anyone interested in the future of education.
Real World Funnies
by Silver Fox

After spending more than 75% of my life as a student, I suddenly find myself venturing out onto uncharted seas. As everyone knows, there are a lot of differences between being a student, especially at a place like Tech, and an ex-student in, pardon my language, "the real world." Some are obvious, some less so. Many of the differences that I have found may not be ones commonly experienced by other ex-students, but others are probably nearly universal. In the hope that some part of my experiences may be of interest or amusement to those unfortunate, lucky souls not yet beyond the pale, I hereby begin the chronicles of my adventures on the other side.

I am by nature, like 99.9% of humanity, an unconsciously lazy soul, with a proclivity to lie about all hours of the day and spend the rest of my time in such frivolous pursuits as keeping abreast with the latest in sci-fi or awakening students to the joy of the "Four" of the Rule. (Details in a previous issue, that exploit has become legendary. Ed.) Not that I have managed to move more than occasionally indulging those tastes. Anyhow, it was obvious that if I were to start indulging those tastes now I would have to give up other pleasures of which I am even fonder, like eating.

So as my student days ground to a close I undertook a search for a JOB! Not just any job, of course, but one suited to my building talents and skills as an XXXX engineer, as any newspaper could tell you. Four years at YYYYY University and a year at Caltech had conditioned me to performing the impossible, however, so I was little fazed. Moreover I suspected I had an ace up my sleeve (or some equivalent metaphor): I knew from the above-mentioned newspapers and other sources that women in engineering are usually much deferred. As one of that favored sex, I set forth with some hope.

More about the long saga of my job hunt in a later issue. For now suffice it to say that I found employment as an engineer within commuting distance of Pasadena, which for some inexplicable reason is where I wanted to find a job. I finished my schoolwork toward the end of September, and the following week set forth to do battle with whatever monsters, giants and wondrously awaited me in the strange world of industry, and to sample its delights. The first giant that I jousted with was getting to work at eight o'clock in the morning.

Like D&D? This giant has turned out to bear a strong resemblance to a windmill, in spite of being a first cousin to that horrible ogre, eight o'clock classes. The principal cause of this transformation appears to be the fact that people who are employed are not expected to troll until all hours of the morning and beyond on rums and reams of homework. It is far, far easier to be somewhere at ungodly early hours of the morning after a full night's sleep than after only two or three hours of sulk time, although not considerably more desirable.

The first delight I discovered involved the realization that one's employers actually expect you to stay home when you are sick. No tests for which you must drag yourself out of your deathbed or risk flunking the course. No homework that piles up while you fight off double pneumonia and a broken leg. No pulling three all-nighters as soon as your fever goes below 100 to make up for all the work you missed. Just stay home so you don't give your germs to anyone else, and get lots of rest so you can get well and come back to work again. You even get paid while you're sick!

That brings up the biggest, and best known advantage of employment, the paycheck. Not too much need be said here. Just let me comment that it is a strange realization to pay more in taxes than you were earning, and living on, the year before. At the same time, expenses go up. No more student discounts. No more wearing blue jeans everywhere. And although the health center's service is somewhat more limited than before, it is free. You win some, you lose some. Nonetheless, a job well paid. Your school hands down, but not as much as it seems at first glance. On that cheery note I shall start to wind down my overly lengthy monologue. Don't breathe that sigh of relief yet, however. More episodes to yet to come in future issues . . .

Copier
Continued from Page One

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970 N. Broadway, Suite 201, Los Angeles 628–5181
This week the Tech About Town goes schizoid. In the first section we shall deal with the real world, and then in the second we shall revert to going-tongue-in-cheek.

The Huntington Library is open again, and their new exhibit is good. Very good. It is forty etchings by Rembrandt from the Huntington Bodman Collection. There is no hurry, as the exhibit runs through January, but as you may wish to see it several times, why not view it when you go down to work as a volunteer gardener in your spare time? I'm quite serious, as the Huntington is looking for some help, and it's a fine way to escape from Tech if you're into flower tops.

This weekend at the Ice House you can see the multi-talented Tim Morgan and Harold Oblong, who was half of the late and much mourned Times Square Two. Monday has Elizabeth Doubleday, soprano, and the remainder of the week features Ian Whitcomb, humorist and ragtime pianist. Admission at the Ice House is $2.50 Friday and Saturday, $2 on Monday, and $1.50 the rest of the week.

The Los Angeles Master Chorale opens their season tomorrow at the Music Center with a program featuring Brahms's "Schicksalslied" and the Faure "Requiem." Exchange vouchers are available at the Music Center to enable students to buy tickets for only $2. At the neighboring Mark Taper Forum the sold-out production of "Juno and the Paycock" will form cancellation lines at 7:00 p.m. (1:30 p.m. for matinees) for fanatics hoping to get in through the inevitable cancellations. Also, at the Dorothy Chandler Pavilion this Wednesday (busy week they're quite done) the New York City Opera opens its eighth annual visit with a benefit featuring the tremendous Birgit Nilsson in Puccini's "Tosca." The season includes twenty-eight performances of fourteen different operas, unfortunately featuring too much Puccini. Other composers do include Debussy, Monteverdi, Verdi, Strauss, and Gilbert and Sullivan, as well as Cherubini, so look into it. It is, for all its faults, well worth your time and money.

Before we proceed to the campus, a quick word for those of you who panicked last Sunday evening. Dr. Demento is now doing his show (yes, the same one) Sunday evenings from the studios of KLOS. The good doctor's unique brand of hysteria can continue to distort us all, just a bit farther along on your tuner.

It's a damn busy week at Caltech. Tonight Spectrum VII opens its production of Ibsen's "Ghosts," a true masterpiece. "Ghosts" concerns itself with both the Ibsen theme of the inescapability of one's past and the immorality of Victorian morality. Directed by Shirley Mameus (you can compliment her in Public Affairs), "Ghosts" promises to be a polished performance worth far more than the Caltech Student admission of $1. It plays tonight, tomorrow, and next Thursday, Friday and Saturday.

Sunday will have two concerts. One is the Coleman Concert, the Quartetto di Roma, performing the work of Brahms, Mozart and Faure. The Quartetto di Roma is regarded as the world's foremost piano quartet, and with good reason. The concert begins at 3:30 p.m. at 4:00 p.m., the Caltech Y presents in Dushey Lounge an "Afternoon of Jazz," with Bill Bing directing the twenty-piece Caltech Jazz Band, plus the Caltech Jazz Sextet and the Dixieland Band. If you know of a way to avoid bounced checks, by covering all your checks up to a prearranged limit.

Educational Loans. Details on Studyplan and Federally Insured loans are available from any of our Student Loan Officers.

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Pasadena Entertains World

On January First, Pasadena opens entertainment and delights millions of viewers with the world famous Tournament of Roses Parade. As a prologue to the 1975 spectacular, a special entry (our fifth medallion) will be a true representation of the first parade entry back in 1890.

Through the medium of precious and semi-precious metal, Pasadena's 100th birthday celebration will provide a permanent record of the city's colorful history, growth and leadership. The theme adopted for the project is "100 Years of Leadership" in: Government (Pasadena City Hall); Technology (NASA/JPL, Mariner 10); Education (Caltech); Culture (Huntington Library); Entertainment (Tournament of Roses float) and Sports (Rose Bowl). The reverse side of each medallion is an Armenian and semi-precious metal, delcately sculptured designs representing the two symbols for which Pasadena is most famous internationally:

- Crown of the Valley" expressed in the Native American roses. These delicately sculptured designs reflect the artistic talents of the Jacques Cartou Mint in Toronto, Canada.
- Special interest is the Caltech Medallion which is the third in the series of six. The medallion design depicts the Alpha Helix and Palomar framed inside the famous arches of the Athenaeum which are indicative of the lovely architectural structure throughout the campus.
- Caltech has made a special arrangement with PGM for a 10% discount on all items. Included in The California Tech of two weeks ago was a placemat with a stamped coupon to validate this offer to Caltech's faculty, alumni, staff, students and family.

As the holiday season nears, these items will make beautiful gifts. The limited edition of 3,500 sets of the pure silver (100 grains, .999 fine) medallions are available. To be popular with both Pasadenans and numismatists/collectors as well as with those who see them, a good hedge against continuing inflation. They are available in 2 1/2" pure silver, 1 1/2" bronze and 3/4" silver or gold plated silver charms. The supply left as we approach the end of the Centennial Year is extremely limited, so the time to buy is now.

The City of Pasadena feels that it is a great honor to pay tribute to Caltech.

Help Save The Earth

The current issue of Engineering and Science magazine (October—November 1974) is a short supply and high demand. If you're through with yours, the Publications Office would appreciate your returning it to Ed Hutchings, 1107 San Pasqual, Mail Code 17-1. Another scarce issue is March—April 1974.
Soccer Loses To Pomona, Whittier

Last Saturday the soccer team played host to Whittier in a 3-0 loss. The Tech team was managed by the loss of ace goalie Steve Trimburger early in the game. This game possibly marked the highest incapacitated player to eligible player ratio the team has ever experienced, with some players taking tests, and at least eight players slightly broken.

On Wednesday the Beavers traveled to Pomona for a game under the lights. The most interesting part of the game was the lighting system, which allowed excellent play at midfield, but left the goalie in the dark. While Pomona went on to win 3-1, the Tech goalie had distinct problems seeing two of the Pomona goals before they arrived at the net. The Tech goal was scored with four minutes left in the game by Joel Okazaki. Tech had the Pomona box under heavy attack when Okazaki took the ball on the right wing and slammed it just inside the upper left corner.

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FRANKLY SPEAKING

by Phil Frank

I OWE MY REJECTION TO MANY OF THE YOUTHS IN THIS STATE-- THE ONES WHO DIDN'T VOTE!!

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FRANKLY SPEAKING continued from Page One

critical lean to the south that could lead to its toppling in heavy rains or high winds. Mr. Schmitz of the Grounds Dept. explained that the tilt could be caused by the root fungus having weakened some of the support of the tree, or just because all the limbs are to the south and the proximity of a steam tunnel to the north has inhibited root growth in that direction. In any case, the immediate danger was sufficient to warrant barricading the area and steps will be taken to temporarily shove up the two main south limbs in the near future.

Assuming the heart rot fungus has not progressed too far, in which case nothing will save the tree, all of the diseased limbs will be removed back to healthy wood, to check the spread of the infection. Some other limbs may also be pruned off to remove weight, but Mr. Schmitz said these will be kept to a minimum, and that the two largest limbs are not infected and won't be removed for weight reasons. The root fungus will be treated as mentioned above and the hole around the base of the tree will be left open, covered by a metal latticework of some sort.

In a memo to Mr. Rector, the Physical Plant Director, Mr. Schmitz stated that the Engelmann Oak is considered irreplaceable, and that all efforts will be made to insure its survival.

Tech About Town

continued from Page Four

All students taking tests, and at least eight players slightly broken.

That's all. For this week. See how easily you can screw yourself while recovering from midterm tests?

--Chris Harcourt

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Continued from Page Three
in the San Rafael Hills so that
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granite in order to record
earthquakes accurately. The in­
struments at Kresge are still
operating.
In the 17 years during which
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it has seen many great men and
major advances in seismology.
Among the distinguished scien­
tists who have worked at Donnel­
ley are Charles F. Richter, now
professor emeritus and originator
of the earthquake magnitude
scale that bears his name; Beno
Gutenberg, director of the lab
from 1947 through 1956 and
who discovered that the earth's
outer core was molten; Frank
Press, also a director of the lab, a
pioneer in earthquake prediction
and now head of geology and
planetary sciences at MIT; and
Hugo Benioff, inventor of seis­
mological instruments used
throughout the world.
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Photo by Terry Sheehan

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NOVEMBER 8, 1974
Redlands Drowns Tech Poloists

by David Angulo

With Redlands initially defending the goal on the deep end of the pool, Wednesday's water polo game became the first conference game in which Caltech led at any point. Rudd Desiderio made the first goal. Redlands scored the second and Howie Bubb made the third to give Caltech a 2-1 lead at the end of the first quarter.

A bit of exciting action was seen at the end of the second quarter after Redlands had evened the score 2-2. With two and one-half minutes left Stan Leley was in the clear for a shot. Tech goalie, Dan Hole, swam forward to meet Leley but got in a shot over Hole's head. The shot was short but was floating towards the goal when Doug Mehoke recovered it, two inches from a Redland score. However, Doug was surrounded by three Redland tankmen, so he threw the ball out of the pool. Bubb finished the scoring in the first half, again leaving Tech in the 3-2.

Easier to Defend?

In the third quarter, Tech was again defending the goal in the shallow end which is theoretically easier. Even so, the Caltech team only made one goal to Redlands' three. Redlands' Chuck Werner committed some obscure "major foul," giving Caltech its only score on a foul shot by Russ Desiderio. Both teams started fouling like some kind of contagious disease. At this point, the scoreboard looked like a couple of bees buzzing around as they turned over the team foul numbers, recorded team and individual fouls, yelled warnings and blew the horn twice to indicate that two players, Doug Mehoke and Jim Rowsey, had fouled out and would have to be replaced.

Redlands scored two points during this period. It looked like the score would be tied at the end of three quarters when, with one second remaining, Chuck Werner threw a high lob from 3/4 of the way down the pool. The gun went off as the ball reached the apex of its flight but the ball went in so Tech went ahead 5-4. The first goal of the second half was made possible by the shortage of Redlands players for thirty seconds due to team fouls. However, Tech soon became the victim of losing a player on team fouls, giving Redlands a score to increase the margin to 5-9. Phil Naecker then fouled out, Tech's third loss, and Redlands scored their best record since Newman, 33rd. Running JV were the winners next year in conference. Coach Leroy Neal considers the team to have great potential, as it consists of one junior, and the rest sophomores and freshmen. He looks forward to a potential 2nd place finish next year in conference.

This coming Saturday, the team will run in the NAIA District III Finals at Biola, a prerequisite to qualify for the NAIA Nationals in Kansas.

On October 26 Fleming beat Lloyd in a handshake Discolobus challenge. Fleming won 1st, 2nd, and 4th singles, each by a score of 2-0, at which point the contest was terminated. In the only other game played Lloyd beat Fleming 4th in singles. Last Sunday Fleming defended the Discolobus Trophy against a Ruddock soccer challenge. Ruddock didn't have much of a chance, as Fleming could have started eleven men from the soccer team. Big Red left their first team in for most of the first half. The first goal came when Richard Arwata kicked in a cross pass from Anthony Sneed. For the second goal Arvid Cronquist headed in a corner kick. The last goal of the half was scored by Jim Hickey with a straight shot on goal.

In the second half John Dilles scored for Fleming on an uncovered corner kick. Next Klaus Engbarts scored with a shot from the left wing. Rudd Desiderio made the sixth and final goal for Big Red with a left-footed kick in front of the Rudd goal.

This week Dabney challenged Fleming in Softball, Basketball, and Pool. Fleming accepted in Basketball.

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