

Thank  
You,

# The CALIFORNIA Tech

Chief  
McGowan

Volume LXXVIII, Number 6

Pasadena, California Friday, October 29, 1976

Eight Pages

by Kevin Drum

Every once in a while, the Caltech football team wins a game. The Pasadena Police Department has been through it many times before but to the average Techer it is a rare occasion. The Caltech football team has been compared to many things, some more derogatory than others but no one is better than Tech at celebrating than they do win.

For the first time in three years, we finally won a game and we finally had an excuse for the

traditional bonfire. While the bonfire last week may not have been as spectacular as the one in front of city hall three years ago, it was certainly impressive. And the planning that went into it was impressive, too. At 7:00 p.m. about a hundred Techers gathered in Winzani to decide how to keep the PPD away from the bonfire site long enough to get it started. By now the PPD probably doesn't care, but you can't be too sure.

Several people located nearly a dozen barnyards, which diverted traffic at the proper time.

The Atheneum parking lot quickly became a woodpile with Techers feeding it from dozens of sources around the city. By now everyone on campus knew when and where the bonfire was to be. About half the student body (maybe more) showed up at Colorado and Catalina at 11:00 p.m. to provide the decoy. The PPD was too smart to bother worrying about the decoy but an awful lot of drivers down Colorado were wondering if the movie house nearby had just let out. They were assured that was the case. While 400 Techers

walked around the intersection, several students set up the barnyards at Lake and Colorado and at Lake and Union. At 11:11:11 CST (Caltech Standard Time) the bonfire crews moved out of their hiding places, shot off a starting gun that started a stampede from the decoy site, and piled the wood into the street halfway between Colorado Blvd. and Boston Court. After the pile was thoroughly doused with a couple of gallons of kerosene, the bonfire was lit.

The police showed up a couple of minutes later but were

good natured about the whole thing (surely they couldn't help but admire the coordination put into it). The fire department showed up five minutes later and the bonfire was ended. After the street was cleared (something which certainly keeps these escapades from irritating the police too much), the march to Farrell's was on. About 50 Techers marched down Lake, holding up traffic for blocks by the time they were through.

By the way, the score was 15-7.



# Parry! Riposte!

The Editorials

## Peaceful Coexistence

Tech won a football game, and the loyal fans, even the ones who have never seen a Tech football game, celebrated. The *California Tech* wishes to offer its congratulations to all the coaches and members of the football team and anyone else who helped to make the game last Saturday a success. The credit for the win belongs to the team alone, but the success of the celebration is not entirely due to the efforts of the students.

Another major contributor to the success of the celebration was the PPD. Were it not for the fact that some members of Pasadena's finest decided that as long as the pavement wasn't damaged the nuisance created by a bonfire was outweighed by the fun the Techers who participated in it had the search for a site for the bonfire would have lasted all night and would probably still be going on today. Quite a few Techers probably would have been arrested too.

But the PPD *did* let us have our bonfire, and we owe them a debt of gratitude for their lenience. The *Tech* can but offer its thanks to all of the boys in blue for being willing to let us have a little fun once in a while.

Carl J Lydick  
Albert L. Kellner

## In the Name of Justice . . . Vote No on Kennedy

Dear Editors,

An editorial appearing in last Sunday's Times bears repeating, concerning the election in Los Angeles County for Superior Court Office 28: "(William P.) Kennedy was the only superior judge to receive a 'not qualified' rating from the County Bar. The Bar report describes Kennedy as 'seriously lacking in industry and diligence. Further, the committee was informed by many attorneys and judges that he often takes the bench late and adjourns court early, and does not carry a full work load. His inattention to his duties renders him manifestly incompetent to fulfill the responsibilities of a Superior Court judge.'

"If no other issues were involved, the massive backlog of cases in Superior Court would call for the replacement of Kennedy with a more energetic and conscientious judge.

"But there are other factors that argue strongly for Ms Ralph's [Kennedy's opponent]

election. She has had 16 years of trial experience, including service as a judge pro tem in Municipal Court, and has been actively involved in public affairs.

"The Bar rates Ms Ralph as 'well qualified,' and she has the endorsement of the Los Angeles Trial Lawyers and many elected officials and civic leaders.

"But apart from the challenger's impressive credentials, we believe that the severity of the Bar's judgement of Kennedy, reflecting the opinion of many attorneys and of other members of the bench, suggests that his first term on the court should be his last."

These are the facts as spelled out by the Los Angeles Times. If this Judge Kennedy character gets re-elected, it will be solely because of voter ignorance and voter apathy. In fact, Judge Kennedy is counting on it to propel him to another term in which he can keep drawing his pay without earning it.

-Chaz Schlindwein

## The Third Wing

## Vote No On Kennedy

Every once in a while, usually in November, Government at some level or other decrees the existence of an Election. Next Tuesday is one of these momentous events, and many of you will be participating in one way or another, mostly by voting for the candidates you find least ghastly.

While most of the voter's interest is drawn to the major campaigns, especially the great fight over the position of Fearless Leader of this great land, there are a few issues of less earthshaking significance that you out there might find somewhat important if you plan to live in Los Angeles past the longer than the next few weeks.

Elsewhere in this Great Publication you may very well find a letter to our editors (and you) mentioning the battle over the position of Judge of the Superior Court, Office No. 28. While this is the type of office that one usually decides about by pushing a pin randomly into one's ballot, for once it may be important. William P. Kennedy, the incumbent, has apparently impressed everyone, including his fellow judges, with his overall lack of competence. Unfortunately, it is difficult to fire someone who is in an elective position, as this is. The only chance that anyone has

to remove an incompetent judge is come election time, like now. A bad judge is worse than no judge at all. Take out your frustrations over the rest of the election by dumping Kennedy.

On the lower half of your sample ballot you will find around 15 state propositions and 6 more local ones. Some of these are on the ballot in order to neaten up various state laws that have gotten tangled up in various ways.

Among the issues of actual interest are:

Proposition 3, which provides for the issuance of state bonds to provide funds for the purpose of helping people insulate buildings

and install solar heating and cooling systems. In the long run it won't cost the state (read taxpayers) much, if anything, and would do a great deal to further solar energy usage in California. A further argument in its favor is the fact that it is opposed by local State Senator Richardson, a current leading nominee for Man of the Year 1898. Solar heating and cooling will save both money and resources. Vote yes on this one it's a goodie

Proposition 13, the World Famous Greyhound Initiative. This Proposition is one of the strongest arguments for a Truth

Continued on Page Three

## News Briefs

### Phasers

#### To the Left of Them . . .

This Saturday night, those wonderful people who brought you World War II, the Caltech Gamers, are at it again. This time, the far reaches of space are the setting, as another game of Alien Space is presented at 8:00 in Clubroom 1, Winnett. There will also be boardgaming that night, as well as Dungeons & Dragons and other related games on Friday night in the same place.

### Festival of Green Lights???

Yes, friends, the news release on the wall says that Olaf Frodsham, Caltech's director of choral music, has announced that the 'green light' has been given to a fourth performance of that world famous extravaganza, The Festival of Light, for 4 p.m. on Saturday December 4. The other performances are to be given on Friday, December 3 at 8 p.m., Saturday, December 4 at 8 p.m., and Sunday December 5 at 4 p.m.

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I certify that the statements made by me are correct and complete.

Kenneth S. Kroll  
Business Manager

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## Vote ? on F

Continued from Page Two

in-Advertising law covering election ad claims. Both sides in this one are wrong. The proposed law itself is a bad one. It's a sweetheart deal for the organization that is backing it, giving them an almost unbreakable monopoly on any greyhound racing established under the new law. The leading proponent is being charged with gross violations of election laws, and the Fair Political Practices Commission, after six months of investigation has filed a \$787,275 claim against George Hardie, the promoter. Unfortunately, the opponents of this issue are almost as bad as its backers, lying flagrantly in their ads. Both sides are resorting to cheap emotionalism in their ad campaigns, the pros saying how much money charities will get out of greyhound racing, the antis dragging sick dogs along with them on long marches in public. Greyhound racing has been corrupted in some places, but so has almost everything else and isn't quite as cruel as some people make it out to be. However, I suggest a NO vote on this one anyway, simply because it is a bad law designed specifically to benefit one small group.

Proposition 14 is a law that should never have been needed. Unfortunately, the Legislature of the State of California is no better than Congress, and per-

haps more susceptible to lobbying, since they are more cheaply bribed. Thus, last year, the State Legislature just somehow by golly, forgot to fund the board whose purpose it is to guarantee fair labor elections on farms. Proposition 14 prevents similar 'forgetfulness' in the future, as well as making certain court rulings and such into law. The opponents have made a big thing about how the Proposition violates property rights. Supposedly, it does this in the provision that allows union organizers onto farm property during lunches and for short periods before and after work. Apparently, farm owners don't want them there at all, yearning for the good old days of lettuce-picking for twenty cents an hour. This one isn't the best of laws, but an unfortunately necessary one. I suggest a YES here.

Proposition F would split a small portion of Los Angeles off and form a new county called County of Canyon. Aside from its ludicrous name, the place has a few other drawbacks, like no cities and a lot of land. In the long run Los Angeles would probably benefit if this new county, north and west from Newhall of earthquake fame, did split off, but the soft-hearted might not want to let these innocent people stew in their own juices. Canyon County turns out not to have enough tax base

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## Eager Money

Each year, the National Micrographics Association selects a deserving student pursuing a course of study in micrographics or related fields such as photography industrial design chemistry or information science, to receive the \$1,500 John P. Eager Memorial Scholarship.

### QUALIFICATIONS FOR CONSIDERATION:

1. Student Status: The student must be accepted or subsequently accepted by an accredited institution of higher education for full time study during the year covered by the award.

2. Financial Status: The application filed by the student shall show that personal and family finances are such that a scholarship is necessary to attend or continue in attendance at an institution of higher education.

3 Academic Status: The application shall reflect where the student ranks academically in high school or reflect academic average if attending an institution of higher education. The student shall request from the proper official that an original copy of the student's transcript be submitted to NMA.

Application forms can be obtained by writing to: The John P. Eager Memorial Trust, National Micrographics Association, 8728 Colesville Road Silver Spring, MD 20910. Deadline for filing applications: January 15, 1977.



Beautiful music at Friday's jazz concert

Photo-John Loo

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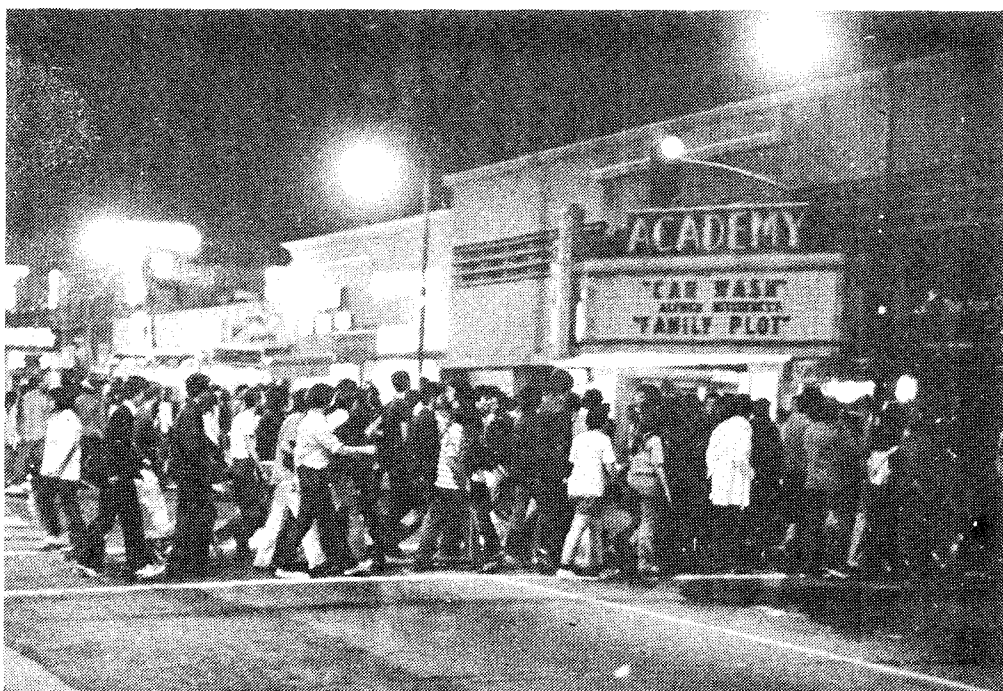
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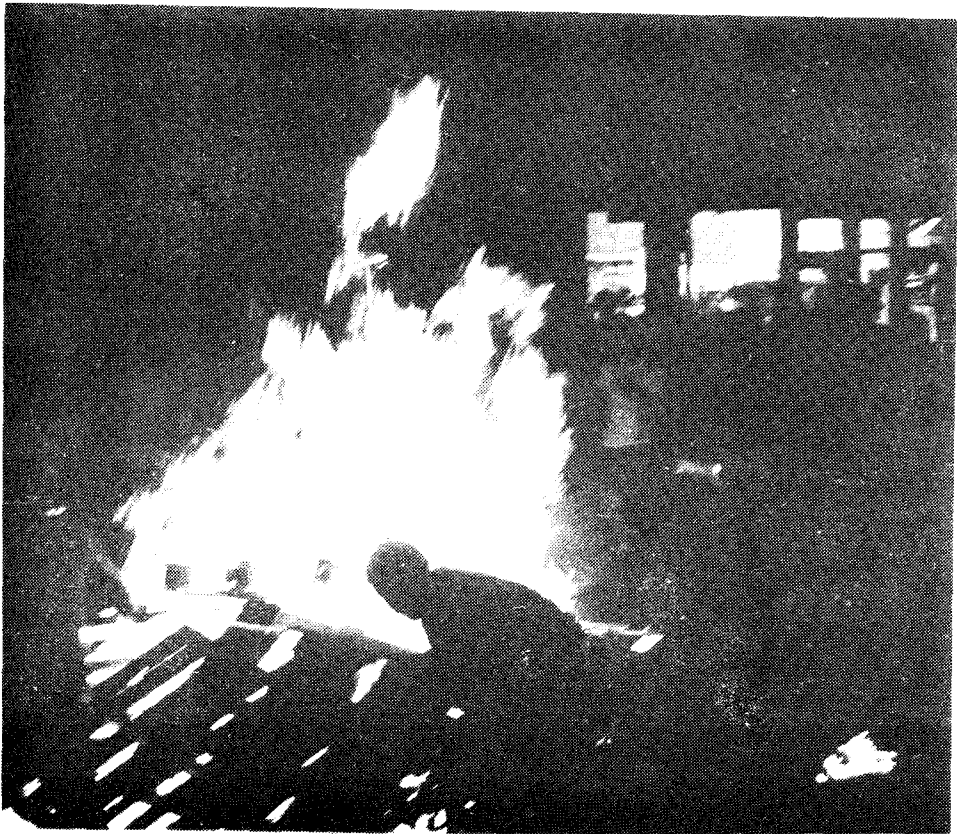
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## Hitherto Obscure Play Successful

by Greenie

On the eve of the Great War, the Austro-Hungarian Empire cowered under the "cold blue eyes" of its Emperor. Each turn of phrase, each slide of eyeball

was seized upon and evaluated for its capacity to soften or harden those eyes.

The Austrian nobility disported itself with intricate games of intrigue, unaware that its world of elegant indolence could ever cease to continue in its leisurely way.

These games—upon which careers and ambitions hung—form the background to *Olympia*, a finely crafted work by Hungarian playwright Ferenc Molnar. *Olympia* is imbued with a monacles-and-thin-bread-and-butter atmosphere of aristocratic refinement. However, the attitudes of its characters and the denouement of its actions have overtones reminding the audience that this is 1913, and that *Olympia's* world is about to vanish forever. While *Olympia* is above all entertaining, it is not a creampuff. It is perhaps better likened to a plum pudding; a rich matrix studded with delightful, epigrammatic nuggets. In any case, it is certainly dessert.

The story line is simple and appropriate to the elegance of the setting. *Olympia*, the daughter of a courtier close to the Emperor, has been consorting with Captain Kovacs, supposedly a common Hungarian soldier. As the play begins, Princess Eugenie, *Olympia's* mother, becomes aware that the flirtation is attracting too much notice for the good of the family's position. Of course, an alliance with a "Hungarian

peasant" is unthinkable, and the affair must be broken off. "Never torture men," she advises *Olympia*. "Be humane. Strike to kill."

And, in spite of her feelings for Kovacs, *Olympia* does, leaving him furious and vowing revenge.

In the second act, the plot develops as a sex farce. We discover that Kovacs is really an international jewel thief. Since in the days of her zeal for him, *Olympia* arranged for her father to recommend Kovacs to the Emperor as a riding instructor for his daughter, an arrest would lead to the ruin of *Olympia's* father. When Eugenie tries to bribe Kovacs to escape, he delicately states that only *Olympia's* favors will induce him to pull a discreet disappearance and decline the Emperor's offer. Regretfully murmuring that this is one situation where "a mother cannot sacrifice herself", Eugenie leaves *Olympia* to save the family escutcheon from public disgrace.

The third act reveals a rather unsurprising twist of plot to save the play from this rather gauche coincidence of identity; however, the reactions of the characters to the situation are altogether believable and rather touching. In this final denouement, Molnar provides an intensely human moment which leaves the audience moved.

*Olympia* is skillfully cast.

Continued on Page Eight



## The Tech About Town

With Halloween this Sunday evening, opportunities for diversion at home abound. It's to be remembered that some of them are bad karma—and that the government is occasionally a karmic agent. Far healthier you should taste of the social scene in Santa Monica at the Starwood, where Hot Tuna will hold forth at 8:30 and 11:30 for the sum of \$6. This is their first visit to Los Angeles in over two years, so excitement (and much of the populace) should run high.

Hot Tuna's brand of music is fairly acidic, and although the pH of Caltech seems to be in flux your tastes may run to the more alkaline. In which case you might want to stay home Sunday night. After all, you'll have to wait until Tuesday afternoon for such basic diversion as the Huntington Library. Once again you can go to the Japanese garden lily ponds, North West Vista, et. al., to watch a text, the world or your mind go by. And Tuesday is a fortuitous day to go as you can hide there from the day's pseudo political madness.

Rumor has it that mid-terms begin in a week, which means for the next two or three weeks the possibility of an examination is

somewhat higher than normal. You can celebrate this situation (and even take advantage of the current, rare, clean air) at Griffith Observatory Monday through Saturday nights at the Laserium. You may already have seen it—after all, it's been there for two years. This very week however, a new program is being introduced and will usually run at the 10:30 p.m. showing. For specific scheduling, call the Caltech Ticket Office (x1652). The Laserium's soundtrack leaves something to be desired, but such is a problem never encountered by the visuals. If you've seen the old show, here's your excuse to go again—if you haven't, consider yourself warned.

If you're the type that can cope with planning ahead and you want to arrange yourself for the post-midterms-is-it-finals-already? syndrome, Peter Frampton will be in the Forum in Inglewood December 6, 7 and 8. Tickets will go on sale soon—possibly next Monday. If you can handle Frampton (don't look at me—I just sell) check the newspapers and don't miss out for inertia's sake.

—Chris Harcourt

## NEWS BRIEFS

### Dance To The Music!

Have you ever danced to the point where you were lost in the music—when the bass lines were the throbbing of your heart and the guitar leads were the shivers in your spine? If you know what I'm talking about, then you might be interested in the Caltech Dancing Club. The club will provide an opportunity and atmosphere, for people who *really* like to dance, to dance *hard* and fast rock and roll. The first meeting will be tonight, Friday Night, October 29th at 8 p.m. in Dabney Lounge. (Under the auspices of the Caltech Y.)

### Women's Workshop

NSF and UCLA are sponsoring a one-day workshop on careers for women in science on Saturday Nov. 6 at UCLA. For more information and to arrange for rides contact Jill Evensizer by leaving a message at 2180 or sending a note to 170-25.

### HELP!

We are desperate. *Totem* (Caltech's literary-art magazine) needs poems, drawings, short stories, photographs, help. Send contributions—they can be anonymous—to "Totem, Winnett Center". Or talk to Mark Sturza in Fleming, or Chris Vestuto at 795-1207.

### Rock on Rock

### A Lively Night...

The Grateful Dead reformed last May for an extended summer tour. Unlike most tours by major rock and roll bands, there was no advance hype or rigmarole. Rather, the dates and locations of the concerts were only released to members of the Dead Head fan club. Accordingly the Dead's most devoted fans got first crack at the tickets and the Dead were able to book smaller, and thus nicer, concert halls.

About the time that the tour began the Dead released a live album called "Steal Your Face." This is a collection of songs recorded live at Winterland between October 16th and 20th, 1974. The song selection is good and includes "Round and Round", "U.S. Blues", "El Paso", and "Casey Jones." While there are no

particularly spacey songs or jams, and the drama of a real live Dead concert is not captured, the album is still recommended to Dead fans who don't already have the Winterland tapes.

Meanwhile, on the road the Dead were putting out a sound that was quite different from their new album due to a few changes. First was the most welcome return of Mickey Hart as second drummer. Second was the much improved performance of both Donna and Keith Gouchaux. Third was the absence of vocals by Phil Lesh. These changes along with the cumulative changes of the last few years have resulted in a sound that is vocally different but otherwise distinctively Dead.

In San Francisco the Dead played six dates at a hall that was new to the rock concert scene, the Orpheum. It turned out to be a superb spot for a concert. Excellent sound, gothic design, the lack of bad seats in the house, and an amazingly pleasant management put the entire crowd in just the right mood for the shows.

The repertoire of songs for the concerts was quite large. The only completely new song was a cute rock and roll song sung by Bob Weir called "If I Had My Way." Familiar songs that the Dead performed live for the first time included selections from "Kingfish" and Garcia's "Reflections" album as well.

Continued on Page Seven

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Photo-D. Wheeler

## Z-1 and the Ambassador from the Cosmos

The concept of man's irreverence is deep seated in anthropological thought. Greek and Roman mythology is inundated with tales of man's senseless attempts to thwart the gods. (Arachne became fatally susceptible to the ravages of canned pesticides soon after challenging the goddess Athena to a weaving contest.) Elapsed time has changed nothing; nights of matchless, unabashed revelry occur quite often on this very

campus. It was after such a wasted evening, that I sat painfully ruminating on the subject of man's loss of moral direction I was about to concede man's basically godless nature and grab a couple of aspirins, when I spied someone who was to brighten my outlook and expose an often overlooked aspect of our existence. He must have noticed my solemn and reflective demeanor, for he was soon at my side offering saintly

counsel: 'you got to lay off of the 151, son.' I was awestruck! Though I couldn't possibly understand these cryptic words, here was someone who could share in my philosophical musings! We began to converse and I learned that he also was an inmate here and like myself had no idea what he was in for. Our dispositions thus aligned, I sought to learn more about him. He did not seem at odds with the world like so many of the strange people who comprise the Tech community. "Tell me about yourself", I asked undaunted. I was elated by the candor with which he replied: "When I was zero I was born." *This man is alive!*, I thought.

I followed him to his humble lodgings, and ignoring the waterbed sofa and array of fine pipes (like all great men he is not viceless), saw that his room is in truth a shrine, a temple of worship. My spirits were immediately uplifted. *There is Hope!*, I thought. Here is a man who has not forgotten the importance of devotion. The manifestations of his creed dominate his otherwise mundane room.

I sat for hours in this shrine, discussing the inner workings of the Universe with my mentor. There is no way to describe the worth of such prolonged meditation. For those of you who may not be able to fight your way into the shrine to share in its spiritual wealth here is an exclusive photo of this enigmatic man (and disciples) in the sanctuary.

-Rock

-Z-One

## ...with Grateful Dead

Continued from Page Six

as 'The Wheel' from Garcia's first album. Among the many other songs played, perhaps the most noticeable were 'Peggy O', 'The Music Never Stopped', 'Dancing In The Streets' (disco style), 'Wharf Rat', 'Cosmic Charlie', 'St. Stephen' and 'The Other One'.

Each show had about 3 hours of music split into two sets and sometimes an encore or two. The first sets were song oriented and dominated by the country western sound a la 'Wake of the Flood'. The second sets were jam oriented and culminated by good old rock and roll songs such as 'Not Fade Away' or 'Johnny B. Goode.' The jams were each different in character, ranging from a jazzy 'Playing In The Band' to the spacey style reminiscent of 'Dark Star' or to the high powered flavor of 'The Other One'. Dead fans generally agree that the jams are the highlight of any Dead concert and these jams in particular were notable for their inspiration and execution.

The Dead finally made it to LA a few weeks ago. There concerts were a little different in that they seemed more like simple rock and roll parties than the 'cosmic' events that the Orpheum concerts seemed to be. The band was noticeably tighter and seemed to be working harder than in Frisco. Also they seemed to be playing to the crowd a little more as opposed to playing

to appease their own artistic emotions. The first night was marred by sloppy vocals but saved by an excellent 'Wharf Rat' and a brilliant double time 'Round and Round.' The second night was outrageously good. Highlighted by 'He's Gone' and 'The Other One' the concert proved once again that on a good night The Grateful Dead are the best live rock band in the world.

What of the future? Are the current rumors about upcoming shows in Santa Barbara and San Diego actually true? Will the Dead disband for a year or two? What will Jerry do with the many many songs he has stockpiled? Will Bob ever learn the words to his own songs? Will Phil sing again if Donna gets pregnant? Have we seen the last of the Grateful Dead? Well, I don't know, I just don't know, now. Hopefully they'll be coming back again. Until then if you get confused just listen to the music play.

## The Wark Story

by David J.E. Callaway

Robert Wark is a pedantic-looking, bald scholarly type who also happens to be the curator of the art collections at the Huntington Library and Art Gallery in San Marino. A week ago Wednesday he sauntered over to Caltech to give an extremely brief talk in Beckman, titled, "The Anatomy of Comic Art."

Between slides of the early English comic art in the Huntington Wark orated on the humorous points involved. It might have been the fact that the slides were "overblows" or fuzzy to begin with, but many of the funny points looked like little blobs.

On the other hand, parts of his *narration* actually made good sense. He pointed out funny parts of several Hogarth paintings that were not obvious—e.g. a young couple seated near each other, apparently about to be engaged while their parents discuss the suitability of the arrangement. In the foreground we see a pair of dogs chained together, in the background a new house, with 4 pillars on the

second story atop three on the first (symbolizing the unwieldiness of the venture). The bride's father is holding a family tree, which goes back to William the Conqueror, while the groom's is showing his finances. The couple seated to the side, face away from each other.

He also showed ribald examples of Italian caricature, one of the singer Catellani, with a jutting mouth and bulging eyes labeled "Catsquallani at full stretch". Hogarth's "Registry Office" was also used at several points, as well as his perspective drawing, which has become a textbook illustration of what happens when you violate the laws of perspective. Here you see a man on a distant hill lighting his pipe from a match held by a woman in the near foreground distant trees eclipsing nearby objects, and so on.

Wark wound up with "Humor is fragile stuff, it becomes lost in analysis; but we can enjoy hearing more about what we see... The explanation of what makes a picture funny is often complicated and elusive."

## Vote ? on F

Continued from Page Three

to pay for itself very easily. Vote anyway you want on this one, depending on how much you hate your relatives in Saugus and Newhall. And remember, Pasadena is part of another group thinking about leaving Los Angeles, so plan ahead.

Above all, this next Tuesday, remember to vote. It may mean a little effort, finding your sample ballot wherever you've lost it, and actually walking a

block or so to your polls, but it really is worth the effort, even if all you do is write-in Howard the Duck for President (he didn't make the ballot in California). And remember, if you don't vote, you're going to be stuck with whatever those wonderful folks who voted Nixon-Agnew come up with this time! Vote early and often, 'cause not voting is the only way to guarantee losing an election.

-Nick Smith

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# Successful Obscure Play

Continued from Page Six

Mary Tiffany gives us a Catty Countess, Lina, whose casually administered barbs and arch comments make us hate her in a jovial way. Christine Vertosik's Olympia is a spoiled darling of the aristocracy, yet is suffused with a subtlety of personality apart from this aspect of her character. Although Marshall Gluskin as Captain Kovacs seems a bit stiff and unfeeling in the early portions of the play, he improves steadily as the part—and the character—develop. In the third act, he imparts a simple manly dignity to the final scene which augments its emotional impact to the nth degree.

The star of the show is clearly Rachel Bard. A playwright can only provide the broad sketch of a character; it is the actor who must fill in the fine brushwork and create three dimensionality. Rachel Bard is an artist. On stage she gives the appearance of having been born an aristocrat, but does not limit her portrayal to asserting her character's station in life. In her hands, Princess Eugenie is shaped into a many-faceted human being, developed to the smallest detail as an intricate woman.

*Olympia* is directed by Shirley Marneus with the able assistance of Stacy Stein, both *Spectrum* regulars. Oscar Mandel as artistic director has chosen his material well; *Olympia* is indeed an example of "the poetry of our civilization", and the unprecedented success of this hitherto obscure play as a *Spectrum* Production bears this out.

*Olympia* will grace Ramo Auditorium Oct. 29 and 30, and Nov. 5 and 6 at 8:00 p.m. Tickets are \$4.00 for general admission \$3.00 for exogenous students, and \$1.00 for Techers. Don't take the word of "news-papemen scribbling with their stubby little pencils"; see it for yourself.

by B. Bible & B. van Steenwyk

The Soccer team passed the halfway point in its season schedule with a close loss to La Verne on Saturday, October 16. Except for two quick goals scored by La Verne's Hernandez at the beginning of each period, the Beavers successfully controlled an explosive La Verne offense. But, the Beaver offense only succeeded in converting one of its fifteen shots into a score as A. Sneed dribbled past his fullback and tapped in a beautiful shot early during the first period. This close loss was especially upsetting to the Beavers as they tried to break out of a five game losing streak, and it brings their season record to 3-5-1.

Caltech won in cross-country Saturday as well as in football, beating Redlands 26 to 31 and Whittier 24 to 31. The rains didn't dampen spirits, and Caltech's home course was in reasonable shape.

The first place finisher was an unattached by the name of Phil Ryan, and he broke the course record with a time of 25:37; The Caltech Triumvirate retained its

identity even in illness—Rob Bourret paced Brett Van Steenwyk and the still sick Steve Kellogg with third, fourth, and fifth places at the times 27:36, 27:42, and 28:17, respectively. Next was Eugene Loh, a tenth place finish with the time 30:19. Then, to boost the team effort, big improvement by Tom McCabe and Josh Rothenberg completed the scoring with times of 31:07 and 32:03 and places of thirteenth and fifteenth, respectively. Next was Duane Gray, sixteenth, with a time of 32:18. Then there was the big first race by David Finley who unexpectedly found himself chasing Redland's fifth man in a time of 34:58.

Tom McCabe, for his improvement, was awarded a shake at a local food stand.

The team will now take a break from competition until Nov. 6 for the conference final. There will be a 2-mile intrasquad race next weekend. In the conference race at Redlands, Caltech hopes to place third, to tie with Claremont-Mudd for third in the final conference standings.



Photo-John Loo

# Beavers Kick Colts for 15-6 Loss

by John Loo

Caltech won its first football game in three years when it defeated the Glendale Colts 15-6 last Friday. In a game of tough defense by both sides, Tech managed to nearly double the Colts' offensive yards gained (180 vs. 97) and nearly quadrupled the yards rushed (114 vs. 33).

Tech scored in the first quarter when sophomore Fred Crimi kicked in a 15 yard field goal. Neither side made much gain for the rest of the first quarter as the defenses tightened up. Pads could be heard "popping" 75 yards away from the hard tackles. Tech managed to force the Colts to fumble 12 times in the first quarter, but only recovered three.

The second quarter continued much as the first, until the Beavers managed to mount a drive which led them to the Colts' one yard line. Quarterback Mark Fortunato then scored on a QB sneak to bring the score to 9-0.

The third quarter went scoreless, but the fourth quarter saw

the Colts finally score on a 50 yard pass, despite tough defense by Tech's Doug Talley.

Talley got his revenge, though. Tech drove to the Colts' one yard line again, and Talley dove through the middle to make the score 15-6. Tech's defensive line finished out the quarter by battering the Colts' quarterback and causing him to throw an interception in the final play of the game to Tech's Joe Zwass. Zwass ran the ball back 35 yards, but was stopped short of a touchdown by a Colt receiver.

The statistics tell the story of the game. QB Fortunato was 6 for 16 (37.5%) in pass completions for 66 yards. Tech had: 13 first downs vs. 4 for the Colts; 59 offensive plays vs. 34 for the Colts; gained 126 yards vs. 66 rushing, and lost only 12 yards rushing vs. 33. The Colts fumbled 14 times to the Beavers' one. Brian Sutula punted twice for 85 yards, and Fred Crimi kicked off four times for 177 yards.

The football team plays La Verne at La Verne today at 1:30 to try for its second win.

# NSF SOS

by Bert Wells

Undergraduates interested in organizing their own research project, possibly receiving tens of thousands of dollars from the National Science Foundation to carry it out, should know about the NSF Student-Originated Studies (SOS) program.

Last year the SOS program supported 69 projects to the tune of \$970 thousand an average of about \$14,000 per project, stipends for full-time participants included. According to the NSF, approximately the same amount of funding is available this year.

In order to be considered for funding in 1977, proposals must be submitted by December 1, 1976. Also to quote the NSF booklet 'Proposals may be submitted in any combination of science disciplines (including engineering, social sciences, and the history and philosophy of science) but they must present an interdisciplinary approach to solving a problem. The proposal should describe the scientific research the student group wishes to carry out and give details as to the funds required for that

purpose. The research problem must be not only amenable to a scientific solution but one requiring an investigation that draws upon several science disciplines. The emphasis in the Program is on independent study as an educational vehicle to train the kinds of scientific personnel that our society will need to solve interdisciplinary (i.e., real) problems."

Any individuals or groups interested in this program should see the Deans, who will not only provide additional information but also will attempt to coordinate people of similar interests. So whether you have an elaborate idea for some research in your main field of study or just would like to know if anybody thought of something to propose related to a hobby of yours, see the Deans and things may start happening.

Who knows? Next summer you may be backpacking in the High Sierras attempting to determine man's impact on the wilderness, courtesy the NSF.

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