

Just Put
Dr. Vogt . . .

The CALIFORNIA Tech

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A Little Left
of Center

Volume LXXII

Pasadena, California, Thursday, May 20, 1971

Number 29

Beckman & Massey on Feynman at Beckman

Mayans Supported Ay.

by Peter Beckman
and Phil Massey

"Civilization is a strange thing," said Dr. Richard Feynman Monday night in Beckman Auditorium. A man who needs no introduction — and got none — Dr. Feynman just walked on stage and began talking to the full (and somewhat awed) hours on (of all things) Mayan Hieroglyphic Writing.

The Mayans were an Amerindian people who reached a reasonably high culture by themselves. According to Dr. Feynman, they didn't have the help of the Chinese, Phoenicians, Jews, or any other people that various scholars had improbably wandering about the globe at that time.

At it was they did pretty well. They invented all sorts of nifty things — none of any practical importance. Their main hobby, in addition to throwing virgins into wells, was constructing monuments to time, from which much of the current understanding of their hieroglyphics comes.

Although they never got around to doing Taylor expansions on the PDP-10 like a certain Dean who will remain anonymous, the Mayans did manage to do a lot of strange things with numbers. They really liked the number 2920, but this wasn't a totally random choice. 2920 equals 5x584 (the apparent period of Venus) equals 8x365 (guess what!). Thus Venus freaks (which apparently the Mayans were) had cause to celebrate every 2920 days, which

they did. (Here at the Tech we celebrate for even more obscure reasons.) The Mayans also counted days in other ways with tuns (no! not tons), and twenty-day weeks, thirteen day months, and five unlucky days every year (they had only one finals week?) to make everything come out even. With all this is it any wonder they had three

Continued on Page Eight



Page of Dresden Codex describing the 8-fold way. —Photo by Fish

Foothill Free Clinic Benefit

Four Groups to Perform Saturday

Caltech students will stage a benefit folk and jazz concert and rock dance for the Foothill Free Clinic Saturday night, May 22.

The concert will be held on the second floor of Caltech's new Baxter Hall (on San Pasqual between Michigan and Chester Avenues), and the dance following will be in Dabney Hall and gardens. Both events are being sponsored by the Caltech YMCA.

Although there is no admission fee, voluntary contributions will be solicited at the concert and the dance. Those who donate \$10. or more in advance will be benefit patrons.

Performers at the concert will be Jackson Browne, Kate Wallace, Symbia, and Ancient Clay. Browne was recently on the bill at the Troubador in Hollywood and at the

Bitter End West. Kate Wallace recently appeared at the Pasadena Ice House.

Symbia and Ancient Clay are Caltech student groups. Symbia is composed of two men and two girls who sing and play their original songs. Ancient Clay just returned from participating in the Pacific Coast Jazz Festival Competition.

The rock dance will feature films, a light show, and free refreshments.

The Foothill Free Clinic, a treatment center specializing in problems of teen-agers and young adults, has seen more than 8,000 people, mostly teen-agers, since its incorporation in 1968. Those who wish to contribute to the clinic's benefit fund may send checks to the Caltech Y, 1201 East California Blvd., Pasadena, CA. 91109..

Baxter Opening to Feature Many Cultural Exhibitions

by Greg Simay

"Through the ages, Man has constructed myth after myth to explain his Self and his relationship with the world. His efforts appear as a kaleidoscoping history of love and intellect, art, and science, the media is the message, and the collage blurs into the infinite.

The opening of Baxter Hall of the Humanities is a promise of future possibility.

We do not expect the ultimate synthesis of art and science; we do expect that an honest encounter between these halves will inspire fresh opportunities for experience and growth of intellectual understanding."

Such are the thoughts behind the Baxter Festival, to begin tomorrow evening at 7:30 p.m. They add up to one thing: Celebration! The event, a joint effort of undergraduates, graduates, administrators, and contributors, will feature a number of visual and musical events.

Hiroshima Panels: The work of Iri and Toshi Maruki, featured in the ground floor of Baxter.

Laser Patterns with Music: Featuring Elsa Garmire's Magic Boxes and a wide range of musical works. Music Seminar Room, ground level of Baxter.

Continuing Exterior Displays

Color Light Projection: Ralph McGee, Greg Simay, Tom Herman, Bob Murphree.

Electronic Music: Gary Demos, Walter Gish, Frank Cortinola.

Fog Production: Tom Mee, Vince Miskowski.

Caltech Student Art Exhibit: Organized by Bob Coleman, located in the Public Affairs Room, ground floor of Baxter.

Art Films: Computer films by John Whitney, 7:30 to 8:15 p.m.; computer films by Gary Demos, 9:15 to 10:00 p.m.; and plastics sculpture films by Robert Bassler, 11:00 to 11:45 p.m.

Poetry Reading with Accompanying Slides: John Bennett debuts "A Child's Zodiac of Verse", accompanied with slides from a collection by Dr. Thelma Moss.

(Events organized and projected by Steve Hoelke, assisted by Gary Lu and Leonard Gray).

Continuing Interior Displays

Artists in Residence Plastics Sculpture Exhibit: Works by Peter Alexander, Robert Bassler, David Elder, and Helen Pashgia will be featured in the exhibit room, basement level of Baxter.

Computer Graphics Display of The Andromeda Strain: Organized by Steve Kelem and located in Room 19, in the basement level of Baxter.

The Baxter Festival is financially supported in part by ASCIT, the IHC, the GSC, the Institute Art Program, Beckman Auditorium, Physical Plant, and Public Relations.

News Briefs

New II-S Applicants Advised to Hurry

The Selective Service System announced today that the highest Random Sequence Number that any local board may call will remain at 125 through June 1971.

The action follows the announcement of Department of Defense that the May and June draft calls will total 20,000, all to the Army. The May draft call had been previously announced as 15,000. The Defense Department has now requested 88,000 through June of 1971, as compared to 99,500

General Daniel James visited campus this Monday and Tuesday. Our skyline reflects some of his activities in those two days, including the interview-discussion which has resulted in headlines in the local press.

The photos were taken by Alan Stein of the Tech staff.

through June of 1970.

The highest Random Sequence Number reached through June of 1970 was 170 as compared to the ceiling of 125 through the first six months of this year, a difference of 45 numbers.

II-S Applicants: Beware!

A draft counselor has warned Caltech that it would be advisable for those students who have recently turned eighteen and have registered for the draft to go to the Registrar's office and ask that a SSS Form 109 be sent to their local boards now.

The new selective service act, presently before Congress in its various forms, may make the date on which the Form 109 was filed critical.

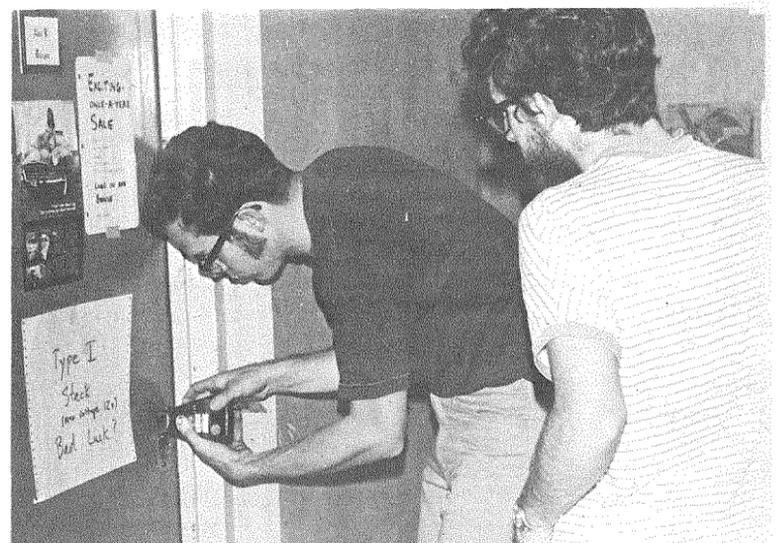
Once Again There Will Be No Totem News Brief
(The editor is asleep.)

Student Publication To Tell About Tech

Plans are now underway for a student publication about Tech to be sent to prospective students. Any students—particularly seniors who do not plan to be here next year—are urged to write about any of their experiences at Tech which they feel would be helpful to incoming people. These essays should be "relatively" short, and be either subjective, objective, or factual in nature. All such items should be directed to Peter Beckman in Page, or left in the Tech office.

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Ditch Day Happened!



"We've tried everything else, maybe this magnet will work." And it did! Thirty seconds later, Page's enterprising underclassmen were inside, busily doing their dirty work.

—Photo by Fish

Editorial

Is There a Moderate in the House?

A perusal of a recent Saturday Los Angeles Times letters page proved both instructive and disheartening. Some representing the "Establishment" or the "Silent Majority" or whatever Vice President Agnew is calling them today, decried such actions as allowing students to honorably make up academic work missed by involvement in political activity.

Perhaps more dismaying than what any of the letters advocated, whether "Right" or "Left," "Liberal" or "Convervative," (whatever those terms mean) is the tone common to all of them. Everyone feels threatened by everyone else: we seem to have reached the state of maximum polarization, where everyone suspects everyone else. All of the writers started from the assumption that their particular viewpoint must be right, and all contradictory ideas must be wrong.

Whether advocating firing striking professors or expanding protest into the community, whether asking massive arrest of students or bloody revenge on the police, the rhetoricians seem to have lost all sense of proportion. The problems involved simply will not yeild to simplisitc solutions. Every action taken has potentially beneficial and potentially malevolent consequences; but in an atmosphere of superheated rhetoric, the rationality needed to ascertain the best answers cannot prevail.

If the "Establishment" feels threatened, perhaps it is. If those who seek a differend society feel repressed, perhaps they are. However, the performance of both groups must be rated D, for dangerous and destructive. Those who remain silent, whether out of fear or simple confusion, find themselves berated by both sides. "Take a Stand" seems the slogan of the times. Yet further polarization is the antithesis of any rational resolution of differences.

As an illustration of this, consider our current position in Southeast Asia. That the United States has the military power to impose any form of government it wishes on any given Southeast Asian country will not be disputed greatly. But that the United States should do so remains totally inobvious. A case can be made for immediate withdrawal; similarly, a case can be made for continuation of American presence. And of course, a spectrum of views exists between the extremes of immediate abandonment of Southeast Asia, and nuclear attack.

The point is that calling someone who disagrees with you a "white neo-fascist pig" or a "Hippie-commie pervert" brings the country no closer to any conclusion to the war. The point seems so simple and obvious, yet it seems totally ignored in most quarters.

Continued on Page Six

Throop Beat

Class of 1975 Is Smaller!

by millikan troll

Just to make it official, the Class of '75 now numbers 222, including 30 women. The total figure may change by one or two in either direction, however. Admission has been offered to 13 on the waiting list, which our admissions statistician tells us is rather unusual.

The Class of '75 will be slightly smaller than its immediate predecessor (228 for the current freshman class, including 30 women), but larger than the year before that (212 brave souls matriculate in the class of '73).

Changing Faces

John Elliott has been on his new job as Supervisor of Campus Security since Monday. His boss is Dr. Walter Wegst (Manager of Safety and Security), who is one slot down in the pecking order from Richard Mulligan (Director of Business Services). Got all that?

Incidentally, for reasons unknown, Wayne Strong is now Director of Personnel, but used to be Personnel Manager. Also in the

personnel office, Nina Neale is the new Insurance Manager, replacing James Bowen who retired recently.

Top of the Week

Debate and associated forensics have been cast loose of the Division of Humanities and are now sheltered by Dr. Bonner's office (Student Relations) ... EQL got its money ... The new office of the Campus Security Supervisor is 21 Business Services (Parkinson Hall to the insiders).

If you plan to live in the student houses next year, remember to get your \$50 deposit in by June 1. Note also that room and board will be yet another \$60 more next year. ... When tempers rise, get a physicist to moderate.

Etaoin Shrdlu Award

This week's Etaoin Shrdlu Award goes to Hanoi government, for not picking better agents, with helping hands from General James and Morgan Kousser. The U.S. Grant award goes to Dirty Dave's office (June 1 is a bit early).

Letters

ROTC Is Alternative to Draft

Dear Sir,

Past issues of the California Tech have dealt in admirable thoroughness with the subject of how to avoid the draft. All possible ways of beating the lottery system have been considered--all but one, that is.

It may seem odd to many to consider enrollment in the ROTC as a form of draft alternative. However, without considering personal political feelings about military service per se for a moment, that is precisely what ROTC amounts to. Who, after all, wishes to spend four years or more at an institution like Caltech only to be drafted and spend two years separated from professional contact in the field of one's specialization? Certainly not me. Taking a scientific education and then merely being drafted cheats both the draftee and the nation--neither can use the valuable tools acquired through so much sweat and work by the student.

How many of us can reasonably expect to have a guaranteed technical job upon attainment of an advanced graduate degree? Or, how many expect to manage multi-million-dollar R and D contracts within our first year in industry or university work? Or again, how many can boast of being paid over \$500 a month to do the same research for the Air Force that he would have been doing at Caltech, earning his degree at the same time, as one graduate of last year's ROTC program is now doing? Are that many of us in the enviable position of being so skilled in some field that the first four years after graduate school are going to make us or break us absolutely? If your answer to any of these preceding questions was personally negative, it would be useful to consider "draft evading" with ROTC.

The commitment is four years of active duty. Personally I only know of one instance when a Caltech science of engineering graduate was denied permission to defer entry into active duty so he could attend graduate school. That is the man who is now getting a lieutenant's salary to do his graduate work. I got an educational delay, and I'm a biology major. The engineering graduates knew they had been approved almost immediately after application.

Active duty is now being served by science and engineering graduates from Washington, D.C. to Hawaii, with many doing their four years'

toil in such little-known places as RAND Corporation, and Aerospace Corporation. Don't these sound like stultifying places to work? One Techer is readying for duty as an astronaut. Just seems that ROTC people stand still and fester, doesn't it? Spend one summer working for any company and tell me you didn't meet any "zeros" hiding in the staff. I'll tell you that you must have stayed at home.

If you think that I might be trying to sell you down the river, perhaps, by all means don't take my word. Stop by the ROTC office some time and read the satisfaction-

poll sheets tacked up on the cadet bulletin board at the back. (The secretary is on the top floor--there aren't even any embarrassing questions or other people to get in the way!) The forms, filled out by recent Tech graduates, with comments ranging from emphatically good to emphatically bad, are all displayed for personal perusal.

That brings us back to the beginning. It is a very personal matter whether ROTC seems like an alternative to you. It's much more than "draft evasion", though. It is national service in research and

Continued on Page Eight

Draft

Get Worried Beforehand

by Mark Peterson

It is of the greatest importance for you to try to deal with your draft status before you receive an order to report for induction. Once you receive the order, you will have only ten days to a month to try to develop information about a physical deferment which will keep you out. Unfortunately, ten to thirty days is usually not enough time. Furthermore, although in the past there were several ways to get more time, recent changes make it extremely difficult to postpone your induction so that you will have enough time.

First, the selective service system has changed their regulations dealing with transfers of induction in order to prevent registrants from transferring their trials to areas where there are liberal judges and in order to prevent men from having sufficient time to develop information which will get them deferred. Under the old regulations, registrants could transfer their inductions if they resided away from the area of their draft board. Such transfers were easy to get and created delays of from one to two months.

No Delays

The new regulations permit any registrant to transfer his induction to another area. However, he must show up and be willing to submit in the other area at least three days before the date on which he was to report at the original induction station. Thus the new regulations eliminate the postponement and, in fact, force a man to report early if he wishes to transfer his induction.

The new regulations also state that if the man refuses induction at the transfer station he will be tried in the area of his local board.

The second change in the draft law resulted from a recent Supreme Court decision that a registrant cannot file for conscientious objection after he has been ordered to report for induction. The court held that the man must submit to induction and then file a claim for discharge with the Army. That decision creates several problems for men who finally decide that they are opposed to war only when faced with the prospect of their own induction. The compromise of beliefs required of conscientious objectors who must join the Army in order to permit a hearing of their contention that they cannot join the Army may force many men to refuse induction. Also, even if a

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THE ASCIT FRIDAY NIGHT MOVIE

THIS WEEK, 2 SUSPENSE THRILLERS:

WAIT UNTIL DARK GAMES

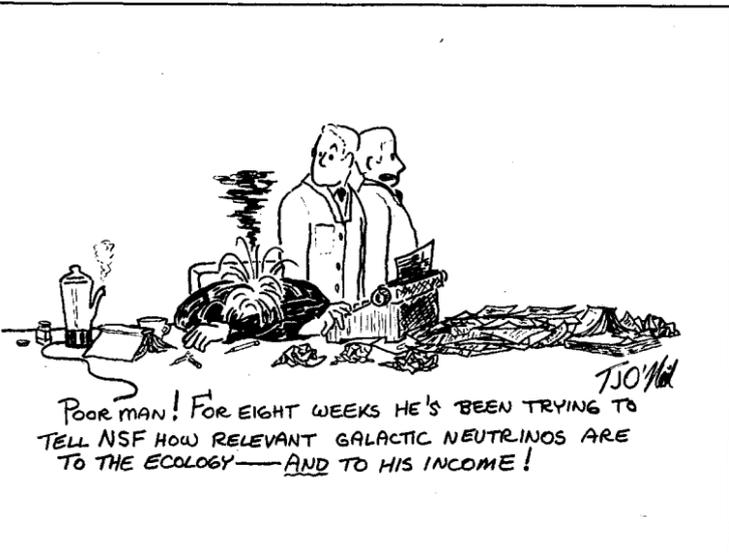
+ CARTOONS FOR TECHERS

7:30 p.m. (GAMES starts at 9:30) in Baxter

Admission 50¢

NEXT WEEK:

2001: A SPACE ODYSSEY



Nixon Congratulates 1971

Class, Etc., Etc., Etc.

To The 1971 Graduating Class California Institute of Technology

The continued success of the American Experiment depends primarily on the qualities of heart, mind and spirit of our young people. As college graduates you have not only the training and idealism, but the opportunity and responsibility to build through further study or through your chosen careers the kind of society which will make further generations proud to identify with your accomplishments.

I know that you will not fail to become part of a positive response to the needs of America: a response worthy of her resources and capacities; worthy of the historic courage and the wisdom and will of her people. Your studies have given you the tools to dedicate yourselves in a very special way to helping overcome some of the most difficult problems we face; and as you become further involved in these

efforts, you will continue to discover more examples of the ways in which the complexities of modern life make it imperative for us to work together.

The destiny of our nation is not divided into yours and ours. We share it. There can be no generation gap in America. We must all keep an open mind and forthright spirit, balance the courage of our convictions with the courage of our uncertainties, triumph over bigotry and prejudice and recapture the unity of purpose that has always been our strength.

Your fresh ideas and candid approach can be a strong deterrent to division and a valuable asset in building the alliance of the generations we so urgently need if we are to advance the cause we share. As I congratulate you on this graduation day, I do so in full confidence that you will answer this need both in your careers and in your daily lives.

Richard Nixon

Systems Engineering

How to Get a Man to the Moon

by Paul Levin

If you were told that you had twenty billion dollars with which to land on the moon, how would you go about it? Today it wouldn't be as difficult a question as it was in 1960 since the U.S. has already gone to the moon, but it is still a monumental problem. On Tuesday night, Dr. George E. Miller, formerly Associate Administrator for Manned Space Flight for NASA, explained just what went into Apollo, the grandest engineering endeavor ever attempted.

All sorts of problems can and did arise as planning progressed. How much danger was there from the Van Allen belts, solar storms, and cosmic rays? Were meteoroids a real concern? What is the lunar surface like? What sort of problems would dust cause? Different measurements yielded different results. New techniques had to be developed to obtain some of the answers, and the meteoroid problem required the launching of three satellites.

What Now?

Debate raged as to the exact manner of reaching the moon. Should one craft go all the way to the moon and back, or should there

be a rendezvous on the way? If there is a rendezvous, where should it take place: in earth orbit, on the way, or in moon orbit? Cape Kennedy was originally designed for a rocket twice the size of the Saturn V, but the larger rocket would have cost more than twenty billion dollars and officials didn't exactly like the idea of fifteen million pounds of explosives sitting on a launch pad.

Even the Saturn V has an interesting history. "Werner von Braun kept on saying, 'You know those four engines (Saturn IV) have a hole in the middle waiting to be filled,' so we put in a fifth engine." The first Saturn V launch went perfectly. In the second one almost everything went wrong. The third Saturn V carried Apollo 8 to the moon.

It Doesn't Work!

Reliability was one of the biggest headaches of the whole project. There were some fifteen million piece-parts in an Apollo capsule, launch vehicle, and ground control equipment. Any finite chance of success would require astronomical reliabilities, so programs such as zero defects were initiated. Still errors cropped up. It was finally

decided to identify the critical events for each mission and then have experts predict the probability of success for each one. This method suggested a 90% chance for success and less than 1% chance of catastrophic failure. "Human judgment, when properly applied, is sometimes better than statistics."

Dr. Miller stated that the future of space exploration lies in landable and re-usable launch vehicles. This could result in savings of 90% or more. In fact, he said, we have gone so far in phasing-out expendable vehicles such as Saturns or Apollo capsules that we've passed the point of no return.

At the beginning of the talk, Dr. Miller had disclaimed "any ability to discuss how aerospace systems engineering can solve the problems of the world." Someone later pressed him to learn if any sociological problem would be amenable to an Apollo-like approach. "The unemployment of scientists."

Next week Dr. Philip M. Morse, Professor Emeritus of Physics at M.I.T., will speak on "Mathematical Methods in Systems Analysis."

Make your summer traveling easier.

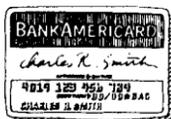
If you're planning to get away this summer, see Bank of America. We have several good ideas that can make it easier for you to travel:



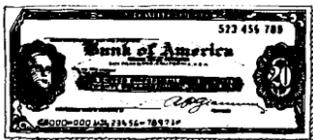
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Hey! Thank You.

The results of our advertisements in The Tech have been nothing short of sensational. Of course, we will continue our ad programs in the future, and we at Dow Sound City are interested in how we might cooperate with you on your school-related programs. If you feel there's a way we can help . . . come on in and talk to a Sound Freak about it.

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Brewing



by Ben Rose
 (In the days of old when men were men and giants trod over the landscape leaving behind various unsanitary reminders for B&G to clean, *The Weekly Retch* unfaithfully butchered the RF's and TS's of life among the savages in the student houses. It is with a sense of unmitigated horror that we resurrect this column of libelous depravity.

- The Editors)

For reasons best left to Ghod or BJ, the House of Lilld didst lay down its much used and marked deks of kards last Friggday and didst maiTai in a grand and glorious manner. Much booz in the form of Fedcal Rhum and Horange Likker along with fruits and other odd and sundry items rand down the throats and craws of the inhabitants (human and otherwise) of said House in a glorioskki mixture that soon had many streaming to and in the bathrooms and other heads.

Added and subtracted were films of the kind usually associated with raunch flick houses with jack-off johns. Every person except those tooready in high spirits got lifted by the sight of FecccccCo's Danish delights and pulsating penii.

This was just a peelude, a sunderture if you will (or won't), to the maine, a Ali challenge rhun through the other six student cages. Contestants (masochists) followed a proscribed rout that resembled, nothing more or less than a semi-random walk. Slogans concer-

O
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O'Neill
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The Critical

Ear



Op. 50; Saga-Drom, Op. 39. *The New Philharmonia Orchestra* conducted by Jascha Horenstien. None-such H-71236

Nielsen, like Ives, has until recently been pretty much undiscovered or ignored. Even through the 1960's, many music texts were published omitting any reference to Nielsen or his works. Due to this exile, his works sound like a breath of fresh pipe organ when heard in 1971, with its accompanying avant-garde.

Both this symphony and the tone poem are typical of this situation. They are both 'modern' works: it would take a lot of imagination to conceive of the symphony as anything else but modern. But there is a large enough dose of the romantic and classical tradition in them to make their present resurgence outstanding and refreshing.

The weakest part on the whole

record is the first movement of the two-movement symphony. Heavily programmatic (which, in itself, is not a fault), the movement attempts to do what the first movement of Shostakovich's Seventh symphony does, in miniature. It is a thematic battle between the sinister theme of the snare drum, with help from the rest of the percussion, and a majestic, optimistic theme given to the rest of the orchestra. Naturally, the snare drum loses.

Musically, the movement isn't as bad as the description might suggest, except for certain sections. The themes are well contrasted and well colored. The moods Nielsen produces are particularly effective. It is just that the movement isn't epic enough for the given conflict, yet it is romantic enough to beg for romantic criticism.

The second movement is excellent. It is filled entirely with strength and resolution, emphasized

by the musical forms of the section. The two fugal sections, one fast, the other andante, lend depth to the movement's strength and act as its thematic crown.

Despite its tone poem form, the Saga-Drom is much more akin to the purer second movement of the symphony than the first movement. It is kind of a virtuoso 'forest murmurs,' combining a forested musical portrait with intricate orchestration and solo parts, including a six-part cadenza. Even with these sections high lighting the piece, it never forgets its forest origin ending as quietly as it began.

E. Gansner

Blue Memphis Suite, by Memphis Slim, Warner Bros WS1899

Memphis Slim plays what amounts to Blues with a slight tinge of Black Power. The album is fair, if you happen to really enjoy Blues. If you don't it can really be a horror to listen to.

Music to Eat, Hampton Grease Band, Columbia G30555

This album is very similar to a Mothers of Invention album. It is very strange that a new group managed to cut a double album especially since the album is not at all impressive.

Peaceful World Rascals Columbia G30462 (2 record set)

Peaceful World is a beautiful album to be cherished and adored by all lovers of Rascal music and to be appreciated by the proletarian masses. The songs are a mixture of varying degrees of Tropical Native music, Latin American, Soul, and the old fashion Rascals style.

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Movies

Woody Allen Uncorks Bananas

The children's classic *Pollyanna* once misquoted Abraham Lincoln as saying that, "If you go through life looking for the bad in mankind, you will surely find it." A corollary of this might be that, "If you go through life looking for the humor in it, you will surely find it." Woody Allen and his new film *Bananas* is the living proof of this.

Bananas takes a semi-serious, semi-frivolous look at the crazy, mixed-up world in which we live. In the space of ninety minutes it makes light of Protestants, Catholics, and Jews alike. It has the ABC Wide World of Sports crew covering a real live political assassination. It even demonstrates the proper technique for provisioning a rebel army, as if you ever wanted to know.

Why call the film *Bananas*?? I certainly don't know. The word was used only twice in the entire film, and it certainly wasn't important. It

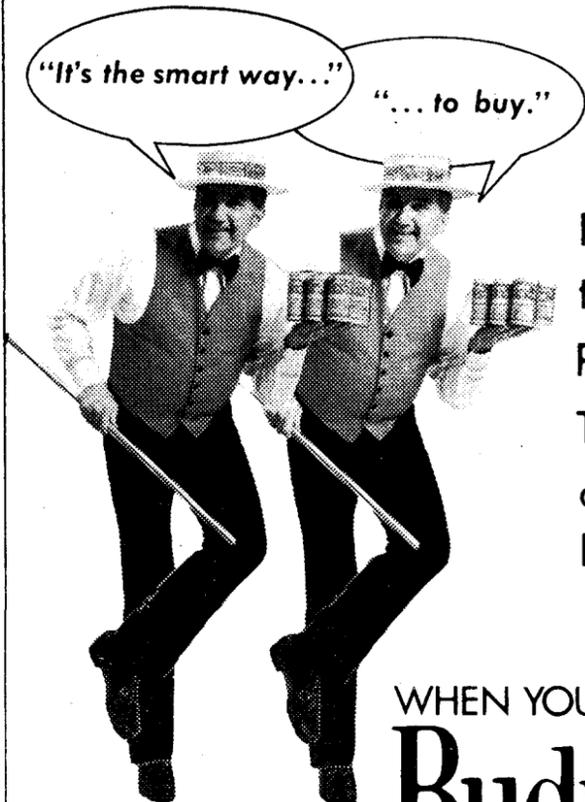
could just as easily have been named Coffee. When asked on the *Tonight Show* why he called the film *Bananas*, Allen answered, "We based it on a quotation from the *Bible*: 'Thou shalt go out into the wilderness and bring with you a banana.' It comes from the book of Numbers, you know, right after the book of Letters."

Except for Woody, his leading lady (Louise Lasser—"You might say I got the part by sleeping with the director.") and the crew of ABC Wide World of Sports, you've never heard of any one in the cast, but that doesn't mean much; many of them (including assistant film editors and members of the lighting crew) had never been in a film before. This in no way detracts from the quality of the film as a hilarious classic. By all means go see it!

- Paul Levin

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*Talk to a Trustee***Glanville Talks About Tech, Business**

by Peter Beckman,
Paul Levin,
and Phil Neches

After the Trustee's national meeting and Baxter dedication last Monday, your intrepid editors arranged to have a breakfast/interview with Jim Glanville, one of the trustees. The interested parties assembled in the Fleming House dining room the next morning for about an hour of conversation, which we are pleased to share with you, gentle reader.

Born in Cooper, Texas, in 1923, Glanville got his BS from Rice in Chemical Engineering in 1944. He came to Caltech as a grad student in the last days of Millikan's ascendancy, receiving an MS in 1946 and Engineer's Degree in 1948 (both in Chemical Engineering).

We started by asking him how he remembered his student days:

"The similarities are more obvious and persuasive than the differences," the complaints and the slang haven't changed. The students are "of a more independent turn of mind," he said, and seem to worry more about academics.

We asked him how he remembered his student days:

The same bars are still on Colorado Blvd., although "they're gamier now than then." ... They have added a lot of grass to the campus, "there used to be nothing but iceplant." ... There were about 600 undergrads and about an equal number of grad students.

"They serve liquor in the Athenaeum now—a positive step." ... The present students are younger—almost all of them were on the GI Bill.

We asked him which faculty members impressed him:

Pauling was one of the stars. ... Oppenheimer was there part-time. ... And of course "Uncle Bobby Millikan." ... Dean Lacey impressed him a great deal: "I remember working (on a problem) all night covering reams of paper—he (Lacey) would have a three-line solution."

The Master of Student Houses was Dr. Goldsworthy, "a math

professor, a retired RCAF colonel, and a great bridge player. He never swore." Well, practically never. During World War I, they used a system of aircraft identification called WEFT (Wings, Engine, Fuselage, Tail), which was, according to The Colonel, "Wrong Every Fucking Time."

Glanville lived in Fleming House for about six months before moving to Arden House, which even then was the Master's domicile. He said of his landlord, The Colonel, "I enjoyed him tremendously." He was very calm: "I never heard him raise his voice."

"The war with B&G was still on then: "One senior class ripped out a patch of iceplant over one night, planted grass, and left a plaque (Gift of the Class of ...). "B&G ripped it out the next day."

We pointed out that during the war years, the California Tech nearly died of apathy:

"Well, you had the navy (in those days)—maybe it was the same thing."

What else did he do for entertainment?

"I went to Scripps every chance I got."

Th object of his attentions, the former Miss Nancy Ellen Hart became Mrs. Jim Glanville when she graduated. They now have four sons.

In view of his personal associations with Scripps, we asked Glanville what he thought of having a girls' liberal arts college in close proximity to Caltech:

"I think it would be a good idea."

Glanville made money as a student doing odd jobs:

"The GI Bill boys had no pressure to get jobs, so they were easy to get." He worked as a waiter in the student houses and at the Athenaeum.

After getting his MS, Glanville went to work in industry. His experiences brought him in closer and closer contact with the business/investment end of the petroleum industry. Eventually he moved

to Lehman Brothers, where he oversees that firm's investments in the petroleum industry, and part of the chemical industry—altogether about a quarter of their business. (Lehman Brothers does about a billion dollars a year business, incidentally).

Investment consultation is a "personal service — The more successful you are, the more you're in demand. I'm on call 24 hours a day, seven days a week.

"My wife accused me of being constitutionally unable to pass by a telephone without picking it up."

Lehman Brothers is "at the crossroads of American business;" the international and U.S. money markets, commodities, equity, etc. come under their view.

We asked him about the foreign currency market, which seemed relevant in light of the new dollar crisis which had just hit the headlines:

"Most operators try to break even, try to hedge. You figure that you'll make money on one transaction only to lose it on another. It's not a meaningful profit source."

On things like currency runs, "by the time the cat's out of the bag it's too late [to make a killing]."

In light of his overview of the economy, we asked Glanville what this portended for Techers seeking jobs:

"You won't have the extremes of opportunity which were once available: the days of 40 job offers are no more. That period is behind us now. Still, Caltech graduates will be in demand," although some may have to settle for less than they might hope.

Why did he accept the invitation to become a trustee?

"There is nothing more they can do for a grad than make him a trustee. ... It's a real opportunity to make a contribution to perpetuate Caltech's excellence."

*The Third Wing***Drugs on the Air****Commissioner Johnson's Minority Report**

"This public notice is an unsuccessfully-disguised effort by the Federal Communications Commission to censor song lyrics that the majority disapproves of; it is an attempt by a group of establishmentarians to determine what youth can say and hear; it is an unconstitutional action by a Federal agency aimed clearly at controlling the content of speech.

Under the guise of assuring that licensees know what lyrics are being aired on their stations, the FCC today gives a loud and clear message: get those "drug lyrics" off the air (and no telling what other subject matter the Commission majority may find offensive), or you may have trouble at license renewal time. The majority today approves a public notice which (1) singles out as "a subject of current and pressing concern: the use of language tending to promote or glorify the use of illegal drugs such as marijuana, LSD, 'speed,' etc." (2) emphasizes the importance of "someone in a responsible position ... knowing the content of the lyrics;" and (3) raises the specter of loss of license unless "pattern of operation" is such that "responsible" employee knows the content of song lyrics played on broadcasting stations.

The contrived nature of this offensive against modern music is demonstrated by the fact that, as the majority itself concedes, "the licensee's responsibility for, and duty to exercise adequate control over, the material presented over his station," is "a basic principle" of FCC regulation; it is so basic that today's action is completely unnecessary. Licensees (that is, owners of stations) simply can't listen to everything broadcast over their stations; they have to delegate responsibility for knowledge of content to their employees; and we can assume under existing regulations that those employees do know

Continued on Page Seven

Earlier this spring, the FCC made a ruling concerned with drug-oriented lyrics. This followed a statement by the head of MGM records that MGM would not release any more records with drug lyrics or drug-oriented groups. These decisions have had a drastic effect on radio stations and on music in general. For this reason, I present in their entirety the FCC ruling and the dissenting opinion of FCC commissioner Nicholas Johnson.

The FCC's Notice

"A number of complaints received by the Commission concerning the lyrics of records played on broadcasting stations relate to a subject of current and pressing concern: the use of language tending to promote or glorify the use of illegal drugs such as marijuana, LSD, 'speed,' etc. This Notice points up the licensee's long-established responsibilities in this area.

Whether a particular record depicts the dangers of drug abuse, or, to the contrary, promotes such illegal drug usage is a question for the judgment of the licensee. The thrust of this Notice is simply that the licensee must make that judgment and cannot properly follow a policy of playing such records without someone in a responsible position (i.e., a management level executive at the station) knowing the content of the lyrics. Such a pattern of operation is clearly a violation of the basic principle of the licensee's responsibility for, and duty to exercise adequate control over, the broadcast material presented over his station. It raises serious questions as to whether continued operation of the station is in the public interest, just as in the case of a failure to exercise adequate control over foreign-language programs. (See Public Notice concerning Foreign Language Programs adopted March 22, 1967, FCC 67-368, 9 R.R. 2d 1901.)

In short, we expect broadcast licensees to ascertain, before broadcast, the words or lyrics of recorded musical or spoken selections played on their stations. Just as in the case of the foreign-language broadcasts, this may also entail reasonable efforts to ascertain the meaning of words or phrases used in the lyrics. While this duty may be delegated by licensees to responsible employees, the licensee remains fully responsible for its fulfillment.

Thus, here as in so many other areas, it is a question of responsible, good faith action by the public trustees to whom the frequency has been licensed. No more, but certainly no less, is called for."

Moderation In Moderation

Continued from Page Two

Our action at Caltech has been different. Students, faculty, administrators, and trustees proved that people of divergent viewpoints could still both hold a civilized conversation and find some points of agreement. Why? Because we chose to explicate rather than to evangelize; to talk rather than to yell, we accomplished much in terms of creating an atmosphere conducive to reasoned attack on the problems of the day.

When the world re-learns a few simple facts, such as the fallacy of simplistic solutions, the uselessness of anger in solving complex problems, and that persons of different opinions from one's own can be just as right (and just as wrong), then improvement can come. But as long as people revile unthinkingly, polemicize irresponsibly, replace debate with name-calling, and bellicosely insist that there is only one "right way" (theirs), the present situation will inevitably continue to worsen.

Is there a moderate in the house?

—Philip M. Neches

—Peter W. Beckman

—Paul A. Levin

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Continued from Page Six

what is being played. We can also assume that licensees are well aware of the Commission's power to prohibit material that falls within statutory prohibitions and beyond constitutional protection. Why, then, this focus on "language strongly suggestive of, or tending to glorify, the illegal use of drugs . . ." - whatever that means-unless the intention is in fact to censor by threat what cannot be constitutionally prohibited?

Moreover, there is a serious question as to whether the majority is in fact really as concerned about drug abuse as it is in striking out blindly at a form of music which is symbolic of a culture which the majority apparently fears-in part because it totally fails to comprehend it. If the majority were in fact concerned about drug abuse, they surely would not choose to ignore song lyrics "strongly suggestive of, and tending to glorify" the use of alcohol, which is the number one drug abuse problem in the country.

It is common knowledge that drunken drivers kill each year nearly as many Americans as have been killed during the entire history of the war in Southeast Asia. There are more alcoholics in San Francisco alone than there are narcotics addicts in the entire country. Kenneth Eaton, Deputy Director of the Division of Alcohol Abuse and Alcoholism at the National Institute of Mental Health, recently declared: "In relative terms, the physical consequences of heavy drinking are far larger and more serious than those of heroin use;" he added that the likelihood of death in withdrawal from heroin addiction.(The Washington Post, Feb. 7, 1971, p.A7, col. 1.) Dr. Robert L. Dupont, Director of the Washington, D.C. Narcotics Treatment Agency, agrees "absolutely" with Eaton:

It's non-controversial. Heroin as a drug is really quite benign compared to alcohol, which is a poison. We have two really serious drug problems in Washington, heroin and alcohol.(Id.)

If the Commission majority were really interested in doing something about the drug problems in this country, why would they ignore songs like "Day Drinking": . . . You know we just stopped in for one short snort Hey we are out on a binge Hey we got no troubles just doing our number Day drinking again Day drinking again I'm starvin' to death We've been drinkin' since ten Food is fattening Ah, but then, booze is happening Day drinking again (T.T. Hall, "Day Drinking" (1970, Newkeys Music, Inc.), Song Hits, March 1971, p. 43) or "California Grapevine": Well I'm

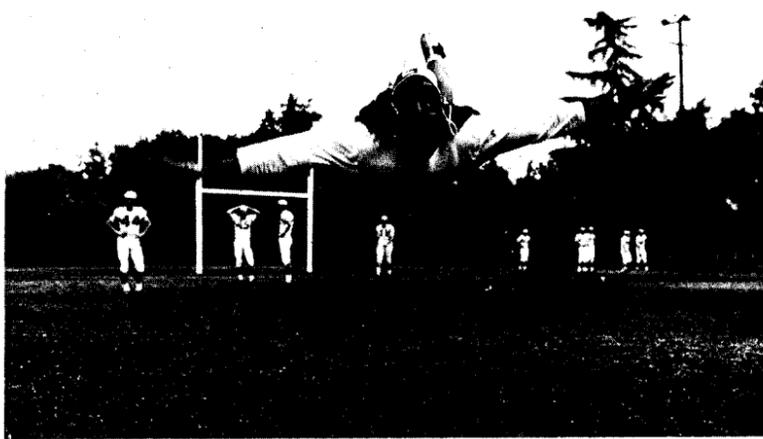
sittin' on a bar stool drinkin' Somewhere way downtown Well my money's all gone and I been here so long I've forgotten why I came to town I want to tell you Son, I know your're gonna find There ain't nothin' any sweeter or wetter than they grow on the California Grapevine (H.J. Joy, "California Grapevine" (1970, Blue Book Music), Song Hits, February 1971, p. 43) or countless other similar lyrics?

And why has the Commission chosen to focus on record lyrics and yet ignore commercials which use language "tending to glorify the use of drugs generally"? In asking Congress for a study of the effects on the nation's youth of nearly \$300 million worth of annual drug advertising on television, Senator Frank Moss of Utah has said: The drug culture finds its fullest flowering in the portrait of American society which can be pieced together out of hundreds of thousands of advertisements and commercials. It is advertising which mounts so graphically the message that pills turn rain to sunshine, gloom to joy, depression to euphoria, solve problems, dispel doubt. Not just pills, cigarette and cigar ads; soft drink, coffee, tea and beer ads-all portray the key to happiness as things to swallow, inhale, chew, drink and eat.(Year of Challenge, Year of Crisis, The duPont Columbia University Survey of Broadcast Journalism 1969-1970, at 88.)

How can anyone possibly justify the FCC's failure to examine the impact of commercials such as the following on television: (Music) Announcer: Leave your feeling of tension behind and step into a quiet world. You'll feel calmer, more relaxed with Quiet World. The new modern calmativ. Each tablet contains a special calming ingredient plus a tension reliever to let you feel relaxed. More peaceful. So leave your feeling of tension behind with Quiet World. The new modern calmativ. (Shown on "To Tell The Truch," WCBS-TV, New York, Sept. 9, 1968, 3:25 p.m.)

This commercial was broadcast over WCBS-TV in New York at 3:25 p.m. to an audience made up primarily of mothers and children. Why do the majority choose to ignore these gray flannel pushers? (It cannot be argued that the illegality of the drugs is the reason behind the majority's action, since the majority says nothing at all about lyrics extolling other illegal activities, such as cohabitation.)

The answer to these questions is simple: the exclusive concern with song lyrics is in reality an effort to harass the youth culture, a crude attempt to suppress the anti-establishment music of the counterculture and the "movement."



Varsity Football Team To Hold Spring Drill, All Are Invited

by Tom Gutman

The Caltech Varsity Football Team is going to conduct a three day Spring Practice session May 25, 26, and 27 at 4:15 p.m. The purpose of the three day pre-season practice is to establish position assignments, give the new athletes a chance to see what Caltech football is all about, allow the coaching staff to observe the team as a whole, and have fun.

Anyone interested or thinking about membership on the football team is invited to participate in these three day practice sessions. Coming to Spring Practice establishes no obligation for membership, just an opportunity to view Caltech football from within.

Monday, May 24, the returning and new football participants are asked to check out equipment at the gym.

promote individual growth, we also need creative artists to divert social disaster. The artists are our country's outriders. They are out ahead of our caravan, finding the mountain passes and the rivers. They pick up the new vibrations a decade or more before the rest of us, and try to tell us what's about to happen to us as a people-in the form of painting, theater, novels, and in music. In order to function at all, they have to function free. When we start the process of Kafkaesque institutional interference with that freedom-whether by Big Business of Big Government-we are encouraging, rather than preventing, the decline and fall of the American Empire: its view of the future, and the fulfillment of its people.

Simply by announcing its concern with the content of song lyrics as they relate to drugs, the Commission is effectively censoring protected speech. The breadth of the regulation is aggravated by the vagueness of the standard used-"tending to glorify." What does that mean? It could include "Up, Up and Away" sung by the Mormon Tabernacle Choir. Some so-called "drug lyrics" are clearly discouraging the use of drugs. Others, while less clear, can most reasonably be read to be opposing drug usage. Many informed people even argue that the programs and public service spots designed to discourage drug usage are often as likely to have the opposite effect. How is the poor licensee to know which lyrics are "tending to glorify"? Will he risk his license over such an interpretation?

In *Burstyn v. Wilson*, 343 U.S. 495 (1952), a statute which authorized denial of a license if the licensor concluded that the film reviewed was "sacrilegious" was held by the Supreme Court to be an unconstitutionally overbroad delegation of discretion. The Commission's action today is bound to be interpreted as a threat that the

Continued on Page Eight

It is a thinly veiled political move. This Administration has, for reasons best known to the President, chosen to divert the American people's attention to "the drug menace," and away from problems like: the growing Southeast Asian war, racial prejudice, inflation, unemployment, hunger, poverty, education, growing urban blight, and so forth. When the broadcasters support this effort they are taking a political stance. Especially is this so when they, simultaneously, keep off the air contrary political views.(See, Fairness Doctrine Ruling, 25 FCC 2d 242,249 (1970); N. Johnson, "Public Channels and Private Censors," The Nation (March 23, 1970) p. 329; N. Johnson, "The Wasteland Revisted," Playboy (Dec. 1970) p. 229; N. Johnson, How to Talk Back to Your Television Set 71 (1970). When we encourage this trend, we are taking equally political action.

The majority's interest in the whole song lyrics issue was substantially increased by the Defense Department's Drug Briefing, which was originally prepared for a briefing of a radio and record executives under the President's auspices at the White House. It is not surprising that the Nixon Administration and the Defense Department, two primary targets of the youth culture, should try to strike back. The fact is that many of the song lyrics singled out as objectionable by the Defense Department have nothing whatsoever to do with drug use, but relate instead to social commentary. Thus, the Defense Department spokesmen singled out a song by the Doors which says, "War is out-peace is the new thing;" and another which says: Itemize the things you covet As you squander through your life Bigger cars, bigger houses, Term insurance for your wife . . . (Transcript of White House Radio Producers Briefing, Aug. 31, 1970, presented in the same form to the FCC, Dec. 9, 1970, p. 4 and lyrics of appendix, p. 1)

Is anything that attacks the values of corporate American or the military-industrial-complex an incitement to drugs?

Beyond the hypocrisy of this blind attach on one aspect of youth culture, this action is objectionable because it ignores the Supreme Court's rulings that the First Amendment protects speech which has any socially redeeming importance.

The courts have frequently invalidated licensing schemes which

give the licensing agency such unbridled discretion, or which are so broad, that a licensee is deterred from engaging in activity protected by the First Amendment. Thus, in *Weiman v. Updegraf*, 344 U.S. 183, 195 (1952), a case involving loyalty oaths demanded of prospective teachers, the Supreme Court condemned the provision, saying: "It has an unmistakable tendency to chill that free play of spirit which all teachers ought especially to cultivate and practice; it makes for caution and timidity in their associations by potential teachers."

The Commission's action today will have a similarly chilling effect on the free spirit of our songwriters, because of the caution and timidity in their associations by potential teachers."

The Commission's action today will have a similarly chilling effect on the free spirit of our songwriters, because of the caution and timidity which today's action will produce among licensees. It will have a similar effect on the record industry, because of the relationship between the radio play of a record and its economic success. (And where, after all, do we get authority to regulate that industry by putting pressure on the move to require the printing of lyrics on dust jackets?) As Mr. Justice Black has written:

(A) statute broad enough to support infringement of speech . . . necessarily leaves all persons to guess just what the law really means to cover, and fear of a wrong guess inevitably leads people to forego the very rights the Constitution sought to protect above all others.

Barenblatt v. United States, 360 U.S. 109, 137 (1959) (dissenting opinion). This danger, inherent in the overbroad and necessarily vague action which the Commission takes today, is compounded when it involves the natural sensitivity of those whose very existence depends on the licensing power of the censoring agency.

We are more dependent upon the creative people in our society than we have ever fully comprehended. "Legalize Freedom" says the latest bumper sticker. Full human flowering requires the opportunity to know, and express creativity, one's most honest-as-possible self. Governments are instituted among men-according to our Declaration of Independence-to promote "life, liberty, and the pursuit of happiness." We seem to have drifted quite away from that goal. Not only do we need creative freedom to

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News Briefs

Records

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nign ancestry(if any), habits, and destination of the denizens of the other houses were shouted with glee by those who had only recently learned the meaning of the virulent phrases which they mouthed.

As luck, or planning, would have it all, the others were semi-undeserted so that little happened. A member of Buttock pleaded, "Please be quiet were taking tests." And Darbites added "Right On" to certain unintimate disgressions on unsanitary passed times.

Only the men of Phage, although few in number, put a strong defense of the sanctity of their barracks against the incomprehensible Lld offslaught.

Afterwards the Llldies didst finish the drink and for sum get the violents ickness the oft accompanies funntimes.

Continued from Page Tun

different places to start off the year?

Not content with this, the Mayans counted in fivies and sixies of moons which worked into a grand and glorious 11960 day cycle which was 405 lunar months and 69 lunar eclipses. This really thrilled everyone. (I guess you gotta do something when you don't got T.V.)

Needless to say, the Mayan civilization collapsed to pieces along with those scholars who tried to decipher this mess several hundred years later. All of which goes to prove that even trying to listen to this "confuses the hell out of you."

Next Monday night at 8:30 No One will speak on "Nothing" at Beckman Auditorium. Anyone who comes will probably have to turn the lights on himself.

Continued from Page Seven

playing of certain song lyrics could threaten license renewals.

Justice Brennan summarized the Supreme Court's concern with actions which have a "chilling effect" on the exercising of rights protected by the First Amendment: To give these freedoms the necessary "breathing space to survive," ... (we) have molded both substantive rights and procedural remedies in the face of varied conflicting interests to conform to our overriding duty to insulate all individuals from the chilling effect" upon exercise of First Amendment freedoms generated by vagueness, overbreadth and unbridled discretion to limit their exercise.

Walker v. City of Birmingham, 388 U.S. 307, 344-45 (1967) (dissenting opinion) (emphasis added). This is a classic case of Federal agency action which is bound to have a "chilling effect" on the exercise of First Amendment rights.

I hope the recording and broadcasting industries will have the courage and commitment to respond to this brazen attack upon them with all the enthusiasm it calls for. Given the power of this Commission, I am afraid they may not.

For all these reasons, I dissent."

Since the ruling was made, radio stations seem to have made only

one major slip-up. It seems that all of the Top-40 radio stations began playing a song by Brewer and Shipley entitled "One Toke Over The Line." Several weeks later, those stations realized that a "toke" was an inhalation of marijuana smoke and that the song was about a person "Sitting" downtown in a railway station, /One toke over the line." In other words, just slightly stoned on grass or something similar.

As soon as the lyrics became widely known, one of the local radio stations smoothly stated that the song was all right, since it was obviously anti-drug. The obviousness escapes me at the moment.

In addition, Commissioner Johnson's comment about songs extolling other illegal activities is interesting in the light of subsequent song lyrics. For example, there is "Timothy," a particularly obnoxious song about murder and cannibalism in a mine shaft. "Brown Sugar," by the Stones, also has some interesting verses. "I Want Your Body," by Tin House is totally out of the question.

In any case, the ruling exists, and stations not following it may be in trouble when their licenses come up for rene I was under the impression that music is considered to be a reflection of the society that creates it. If that is the case, the FCC's action si comparable to trying to destroy an object by painting over its reflection.

Continued from Page One

ASCIT to Hold Elliott Coffeehour

ASCIT will sponsor a coffee hour with Mr. John C. Elliott, the new head of Campus Security, on Tuesday, May 25, at 3:30 p.m. in Winnett Student Center. Punch, coffee, and doughnuts will be served. Everyone is welcome.

Y Continues

Political Entertainment

United States Senator Alan Cranston and Los Angeles mayor Sam Yorty will share the political spotlight at Tech on the 24th [next Monday]. Yorty will speak at one end of the Olive Walk [Winnett-Firestone plaza], and Cranston at the other end [the Athenaeum lawn].

A Fish Story

by Philip Massey

As some of the more observent of you may have noticed by now, there are things other than people in the new Baxter pond.

The primary inhabitants of the pond are Japanese Koi Karp. There are 105 (count 'em) of the friendly little fellows, and they cost about \$50 each.

According to Art Brown of Physical Plant, the person responsible for turnign the plain old water pond into a natural pond filled with little fishes and assorted flora, the fish are currently spawning. This causes the water to be stirred up and accounts for the very poor visibility.

There are quite a few plants in the pond as well. In addition to the water hyacinth there are a number of expensive tropical water lillies.

CALCULATOR ROOM IS NO MORE!!!!!!

At its May 15 meeting the ASCIT BOD decided not to try to reactivate the Calculator Room under Blacker which has been used for other activities this year. The lock has been changed, and the outstanding keys to what was the Calculator Room lock are, essentially, "keys to nowhere."

Collectively, the Calculator Room keys represent a substantial investment which could be recovered for ASCIT by selling the keys back to Physical Plant. Please return Calculator Room keys to Louise Hood in Winnett.

ROTC

Continued from Page Two

development. It is useful and challenging work. It is professional opportunity. With a chance like this, though, there will always be persons who will choose such alternatives as drinking a gallon of axle grease before their physicals or carrying a purse into the Army psychiatrist's office. It seems to me that two years of undergraduate school getting paid a stipend each month, several years of graduate school, and four years as an officer at some Air Force or civilian laboratory is a far more satisfying, and personally more honorable, alternative.

Terrence Jay O'Neil
Ruddock House, CIT

Dear Sirs:

Two days ago as I write this letter I checked out for Xeroxing vol. 35 of the Cold Spring Harbor Symp. Quant. Biol. (1970). On the special request of the librarian, I returned the volume within twenty minutes after I checked it out. However, due to the fact that the librarian did not cross out my name from the sign-out sheets, and because users of the volume did not find the volume on the shelves, I have received two phone calls and have been approached by three persons who more or less demanded that I produce the volume. One of these persons advised me of a possible slight degree of bodily destruction if I didn't find it for him.

Volume 35 is not to be found on the shelves; the biology librarian keeps it in her desk. If anyone wants it, he should ask her for it, not me.

Thomas Yee
(Ricketts)

Draft

Continued from Page Two

man does accept induction and then files for a C.O. discharge, his request will take up to six months to be considered, during which time he is a member of and supporting the work of the Army.

Still No Delay

The ruling also eliminates the second way registrants were able to postpone their induction. Whereas previously filing a C.O. claim postponed a registrant's induction from one to two months, now filing such claim will create no postponement if the induction order has already been mailed.

If you do receive an induction order you may still have enough time to get a postponement for a medical re-examination, if you act quickly. Get a letter from a doctor indicating that you have a medical condition which may serve as the basis for a physical deferment. If you can get the doctor's letter to a U.S. Senator or Congressman at least ten days before the date of your induction you will not be drafted on that date, but rather you will be given a complete medical re-examination. It is important to get all available medical information assembled so that you can bring it to the re-examination, since information obtained later may be of little use.

If It's a Hardship

Perhaps the only other basis for obtaining a postponement or cancellation of your induction order is if you have the basis for a hardship claim. Because there are so few opportunities open after you have received an induction order, you should try to deal with the draft before you receive such an order.

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