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# The CALIFORNIA Tech

Proof by Induction

Volume LXXIII

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Number 2

## McGovern Advocates Full Amnesty for Vietnam Expatriates

by Phil Neches

Presidential hopeful George McGovern advocated full amnesty for persons who have left the country in preference to facing the draft due to Vietnam at a press conference last Thursday. Upon questioning by a group of student editors at the Los Angeles Convention Center, Senator McGovern stated that the amnesty should be extended to deserters from the armed forces currently living in neutral nations.

Asked what he envisions as the future of the current Saigon regime, McGovern replied, "If the U.S. blinked one eye, Thieu would be through." He stated that Thieu depends 100% on American support. "I cite as witness number one General Thieu."

### Western Europe

Asked how many troops the United States could safely pull out of Western Europe, McGovern replied, "I support Senator Mansfield's resolution to withdraw 50% (of our forces there)." Some of the west European economies are stronger than ours, he said, and they can easily supply their own manpower.

Turning to the Middle East, McGovern declared, "The cornerstone of American policy should be

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## Car-Pool-In

# More People/Car - Less Smog

by Ann Haviland

Some people think we can get rid of smog. Within the next week, Caltech staff and students have two opportunities to do something about smog.

Friday the Environmental Quality Lab is holding a Car Pool-In from 2:00 to 5:00 p.m. in Dabney Lounge for discussion of city-wide car-pooling and to give Techer's who live in the same areas a chance to become acquainted and plan carpools. Music, fruits, cookies, coffee will be featured.

### Share Rides

The EQL affair comes just before a county-wide "Share a Ride" effort sponsored by two citizens groups, Stamp Out Smog (SOS) and Operation Oxygen (OO). Wednesday October 6 is the day for the carpool effort whose slogan is "The Ride You Share Will Clean the Air." While they last, stickers will be available at Dabney Friday. (They are available at no cost from O.O. Their Pasadena phone is 351-9818).



Mrs. Ma Hale

## Ned Hale Retires

by Phil Neches

"I'd like to introduce to the house two people who need no introduction - Mr. and Mrs. Ma Hale." With those words, generations of freshmen got their first look at Ned Hale, who is retiring this month after over twenty-five years as secretary to first the Master of Student Houses and then the Dean of Students.

In the words of Richard Stanford ("Doc Stanford" to many student house residents), "No matter what else she was doing, she always thought the students came first. . . . She always took the time to help students whenever they needed it."

She had a "great affection for students [as well as] a reservoir of common sense," according to another of her bosses, Dr. Huttenback.

### Since the Colonel

Ned started in the Master's office just after World War II, when Colonel Goldsworthy reigned. "Kids just liked to talk to her - it made the job of Master much easier." When Dr. Huttenback moved to the Dean of Students office, Ned went with him. According to the Genial Dean, "she made a major change in the Dean's office . . . made it much better."

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## Freshmen (and Women) Assert Power At Catalina

by Paul Levin

This year's freshman camp provided the incoming students with many opportunities to assert their power. Even as early as the boat ride to Camp Fox on Catalina, they learned that there is strength in numbers. When the Hawaiian music got to be too much a petition to have it stopped was circulated; within ten minutes fifty signatures had been obtained - and the music was stopped.

After a short stop at Avalon, the boat took everyone to the camp, run by the Glendale YMCA. Nestled between some cactus-covered slopes, it promised to be a geologist's paradise. Before long Drs. Silver and Sharp, prospective geology majors and others were undertaking expeditions to study the various formations and disorganized areas.

The cactus covered slopes also gave a group of mischievous freshmen something to do. One of the most prominent features was a group of rocks arranged to spell YMCA. After the first night they had been rearranged to "E=mc<sup>2</sup>" and twenty-four later it said "DEI."

Calling this year's camp unstructured is a bit of an understatement. Only two out of the forty-six hours were devoted to speech-making. This left plenty of time for such activities as chasing girls, swimming, boating, fishing, and hiking. In addition there were volleyball and football games.

Compared to the daytime, nights were very bleak. The biggest activities at that time were the card

games. Rumor had it that one freshman finished \$40 ahead; rumor also had it that Dean Huttenback was the big loser. While the camp was "dry," the same rules were not applicable to the three sailboats. Hence droves of people in rowboats were heading out in the direction of the moorings.

Food was perhaps the biggest complaint. Since frosh camp did not fall on a weekend, the YMCA was unable to get its summer help to come back for the event. Instead it stripped its professional staff of secretaries and instructors and anybody else it could find. They were really hurting for experience. Still they struggled valiantly, and nobody died of starvation or botulism.

The crowning blow came on the final morning of camp when Drs. Wood, Huttenback, Miller, and other assorted "brass" awoke to find themselves trapped in their rooms. Someone was going to have to jump out of a window, but the landing site had been cushioned with a luxuriously thick bed of the same cactus which infested the hills. Peter Miller finally made a heroic jump over the landing area and then undid the ropes. For his heroism he received an award later that morning.

After two days everyone reluctantly climbed aboard some boat (the three sailboats accounted for about twenty) and headed home prepared to do battle with classes, rotation and initiation. It was a great vacation, but now it's time to get down to business.

## Beat This Dealer? Never!



Ever wonder where the Dean of Students' slush fund money comes from? "Madam" Ma Hale was the big dealer at the Fleming House interhouse gambling casino a few years back.

The Jet Propulsion Lab has had a

Continued on Page Seven

**Throop Beat****Throop Still Standing**

by millikan troll

Perhaps one of the less earth-shaking items in the news is that Throop is still standing. The moving date is still floating, and may anchor sometimes this year or next, but nothing is positive, as no detailed moving plans have been formulated. And since there haven't been any earthquakes, Throop is still here.

The roadwork which currently has San Pasqual resembling a minefield will result in a new storm drain to replace surface drainage provided by Michigan Ave. Since Michigan Avenue will be replaced by the new behavioral biology building, the new drainage must be installed before work on behavioral bio can begin. The storm drain project was rushed through to avoid midwinter problems, such as storms without drains. The work supposedly should be finished Friday, but may take a few days longer.

**Buildings for Sale**

With the drainage problem soon to be solved, the way will be clear to take bids on behavioral bio in late winter, possibly around March. Groundbreaking should occur early in the spring.

Concurrently, the Institute proceeds with plans for the new geology building. Culbertson will be demolished just after the first of the year to make room for Shoemaker's building, and the bids will be taken about the same time. Ground-breaking is projected for sometime around March.

**Top of the Week**

Physical Plant has a new head in the person of Philip Rector, . . . Any Darb who wants fluorescent light fixtures in his room similar to those in the other old houses can have them installed for a modest fee by seeing Mr. Gang. . . . The new proposed parking rules include a formal parking ticket appeals procedure.

Don't forget the Art Program. Classes in painting and drawing with live models will be offered in the new studio (25 Baxter) under the instruction of Lukas van Vuuren, Caltech's Artist-in-Residence. Stop by the studio almost any afternoon at 1 p.m. to enroll.

Ellen Kennedy, formerly of the Public Relations office, is the new secretary in the Dean of Students office.

**letters**

For those of you who don't know me, I am Carroll Boswell and live in 138 Ruddock. I am a Christian, and I'm writing this article because I want to communicate part of what a relationship with Christ is about. I met Christ only three years ago so I'm not a scholar trying to defend the Christian faith, but I do want to try to express part of it.

It is apparent to me that one of the basic assumptions we work under at Caltech is that science and the scientific method is able to solve any problem that may arise. So then, when we start seeing smog, we get worried about ecology and immediately turn to science and technology to solve the problem. We even look to genetics and biology to produce a fundamental improvement in the human race. But the assumption that we can look to science and technology for the solutions to our problems seems rather irrational when examined closely. After all, it was just such technology that caused many of our problems, from pollution to nuclear war. Why then do we return to science as the answer?

Where else can we go? That's a good question. On the assumption that science is a cure all, or even the best cure available, we have tossed out other possible cures. Even faced with the fact that technology has not solved our problems in the past, we still look to it for the future. Such an irrational choice must have a reason and I believe the reason is a dishonest intellectual pride. Science is the product of human rationality and insight, and we wish to believe that men, or at least men's creation, is all that is needed and God is no longer even a "necessary hypothesis". It is our pride that restrains us to man made solutions.

In passing, I want to point out that there are only two possible actions based on the above assumption. We can either go on with the irrational hope that the method that has failed in the past will succeed in the future, or we can give up all hope entirely. Based on the above assumption, there really is only one place we can go for solutions: science. Once we give up hope in science we are left with roundly nothing.

But I want to say a little about a solution I have found in Christ. Because of a personal relationship with God through Jesus Christ, I am no longer confronted with a choice

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**\$3E6 Program****Washington Science Internships**

Washington - A new program of Presidential Internships in Science and Engineering was announced recently by the White House. The one-year internships are expected to open more than 400 training opportunities in federally-funded laboratories across the country. Recipients will be matched to tasks where high degrees of specialization can provide innovation and new insights in meeting pressing national problems.

Dr. Edward E. David, Jr., Science Adviser to the President, said "we would hope to expose the trainees to both the problems and the capabilities of government research and development and put them in positions where they can best benefit the nation and themselves."

**\$3 Meg**

Labor Secretary J.D. Hodgson, whose department is funding the \$3 million effort from its Technology Mobilization and Reemployment Program, said "the internships greatly strengthen the nation's effort to hold onto its pool of trained scientists and engineers."

David, whose Office of Science and Technology developed the program, said "these people provide a unique pool of skills and resources, much of it developed at taxpayers' expense in colleges, uni-

versities and various laboratories. They represent a vital national resource."

He pointed out that the internships should be particularly beneficial for unemployed younger scientists and engineers who hold advanced degrees. Those under 30 are among the hardest hit by the current job squeeze; they have an unemployment rate of 5.3 per cent according to a recent National Science Foundation survey.

**Social Concern**

The fields in which they would have the greatest impact, David said, are those of current social concern. These include pollution, trash disposal, management and integration of large projects, and the nuclear field in areas as diverse as new power systems or criminal and medical laboratories where nuclear techniques are making major contributions.

The internship program was the second Administration initiative this month aimed at enhancing the utilization of scientific and engineering techniques through existing manpower programs.

On Sept. 1, Dr. David called his first formal meeting of the governors' science advisers here and outlined an employment program under which states, counties and

local governments could hire scientists and engineers under Federal matching programs.

**Science Expertise**

That effort had a double goal: reemployment of scientists and engineers and the seeding of technological specialists into the mainstream of those governmental units which have not, until now, been able to afford such expertise.

Under the new program candidates may apply directly to federally-financed laboratories for one-year, non-renewable internships

Continued on Page Eight

**Film, Videotape Workshop To Be Sponsored by Y**

by Claude Anderson

All students are invited to join a new group to learn to produce film and videotape. The Humanities Department has purchased the necessary equipment for the workshop and has appointed professional instructors, one for each field.

The workshop has two main purposes: to allow students to make their own films or tapes, individually or in teams; and to give them a chance to meet famous producers who will show their works and discuss their techniques. At some of the meetings, students will show their own work. The meetings will be held on Tuesday evenings at 7:30 in the audio-visual room, 125

Baxter, throughout the first term.

Each student may work with the medium and subjects of his choice. The workshop is set up to help you to express yourself through these media and to make available to you the necessary equipment. Instruction will be on an individual basis.

Membership will be limited to the first thirty who sign up. The membership fee is \$10.00 and registration begins at 12:30 on October 4, in the Y.M.C.A. office, 218 Winnett Center.

If you have an interest in film or videotape, you are welcome, but don't sign up unless you plan to attend the meetings and to work to make your own production.

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**McGovern**

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to press for negotiated settlement." Despite that stand, he makes "no apology for the sale of U.S. jets to Israel." "Israel must make adjustments for the Palestinians," he continued.

**Africa**

When questioned closely on what policy he would pursue with respect to apartheid governments in Africa, McGovern replied that he would not break diplomatic relations even with "obnoxious governments," but would use "every reasonable means in protesting (racist) policies." He said that he would consider economic sanctions.

But when asked if he would become involved in "struggles for liberation," he stated that he would not intervene either on the side of the government of the insurgents. He cited the parallel to the current situation in Viet Nam to justify his position.

Turning momentarily to domestic issues, McGovern was asked to react to Senator Muskie's statement that a ticket which included a black running mate would lose the election. McGovern disagreed,

stating that the only requirements "would be those in the the Constitution." Challenged to name three blacks he would consider for running mates, McGovern gave the names of Carl Stokes (mayor of Cleveland), Rep. Conyers of Michigan, and Shirley Chisolm, Democratic Representative from New York.

Commenting on the two vacancies on the Supreme Court, McGovern pointed out that with one more retirement, Nixon will have named a majority on the court, which could change "political and social interpretation." He thought that Nixon's court appointments could be the most significant part of his administration. Asked if he thought the Supreme Court too powerful, McGovern replied no, that the Court has been a "constructive, liberated influence, generally on the side of justice." He later stated that he would appoint a woman to at least one of the vacancies.

**Bussing for Fun**

"The Supreme Court has ruled that some busing is necessary to achieve integration . . . that ends the issue as far as I am concerned." McGovern stated that he considered equality of education in black and Mexican American schools a more important goal than busing. "The

same parents (who oppose busing now) didn't mind it when it was used to promote segregation."

McGovern called for a "massive shift in the financing of education" in the direction of 50% federal funding. He said that this includes colleges and universities, and that aid to college students should be in the form of direct aid to students rather than to institutions.

**And Profit**

McGovern labeled action on environmental issues the "number two domestic priority after the elimination of poverty." On the issue of birth control, he advocated a "massive effort led by the President," but said that he would not support laws which would impose sanctions, economic or otherwise, on larger families.

Asked what he saw as the role of the U.S. space program in the '70s, McGovern stated that scientific objectives, not prestige, should be the major criterion.

*This has been the first in a series of reports on press conferences between student editors and the candidates. The editor would like to thank the student government of Cal State L.A. for arranging the series. Watch for the next report in an upcoming issue of the California Tech.*

**News Briefs**

**New Football Schedule**

There has been a slight change in the football schedule this year. The University of Redlands, being in dire straits a la Caltech, is filling up their varsity with frosh this year. Because of that, there won't be any frosh to play Saturday, October 9.

So, the University of California at Riverside frosh have been scheduled twice -- on the ninth, at Riverside, and on the 23rd, for Homecoming.

**Newman Community Sponsors Guitar Mass**

The Caltech Newman Community is sponsoring a guitar mass at 7:00 p.m. on Sunday, October 3 in Clubroom 1, Winnett Center. All are invited.

**Christians To Meet**

The Graduate Christian Fellowship will meet every Wednesday at noon in Clubroom Two. Graduate students, faculty, and staff members are welcome.

**Totem Meeting This Tuesday**

Preparation for the first of this year's Totem continues. There will be a meeting of all persons interested in working on the literary magazine Tuesday evening at 9:45 in the Coffeehouse. Anyone wishing to

submit material may do so by bringing it by the meeting, sending it to Philip Massey in Ruddock, Gesine Lohr (temporarily Page), or bringing it by the Tech office in Winnett.

**Dance in the Streets**

The annual Simchat Torah "Dance in the Streets," in support of Soviet Jewry, will be held on Saturday night, October 9, from 8:00 to 11:00, at Fairfax High School, Los Angeles. Take the Pasadena Freeway to the Hollywood Freeway northbound, exit at Melrose, and go west on Melrose to Fairfax. There will be singing and dancing, for free. To arrange rides, please show up (with or without a car) at 7:00 at the north side of Winnett.

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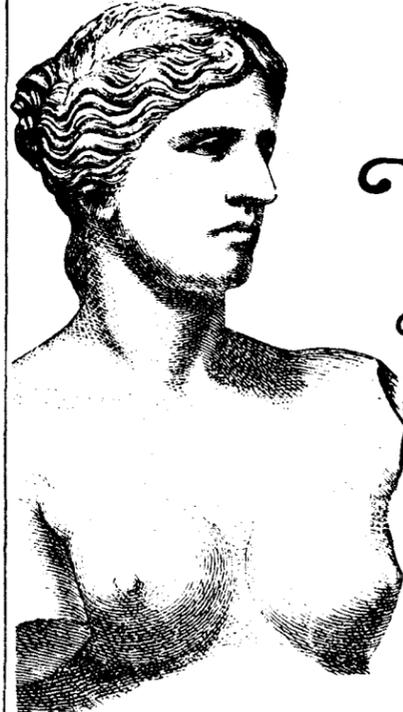
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## Good Music Abounds

by E. Gansner

With the coming of Fall, the Los Angeles area again blossoms forth another music season. Despite slowly dying rumors, Los Angeles is a major music center. Offerings range from the maturing LA Philharmonic, which does have its high points, especially with certain composers, to the myriad recitals and chamber music concerts offered every week at Caltech or one of the score of colleges in this area.

Two particularly fine series coming up are the Encounters Contemporary Music Series and the visit of the New York City Opera Company.

### Encounter Encounters

The Encounters Series, sponsored in part by Caltech, yearly presents several of the most important modern composers in a seminar-lecture-concert format. The composer is there to discuss his works and his theories; his music is there,

played definitively by the composer himself or by his close colleagues and major interpreters. In the past, the series has presented such composers as Stockhausen, Boulez and Messiaen.

Keeping with past traditions, this years composers include Lou Harrison and the world premiere of his puppet opera "Young Caesar"; Japan's leading composer, Toru Takemitsu; Gyorgy Ligeti, most widely known for being one of the three composers whose works were used in "2001" (no, he neither wrote 'Zarathustra' nor 'The Blue Danube'); and Leon Kirchner, one of the leading composers from the LA area.

### Cheap and Not So

The concerts are normally on campus, well-done and worthwhile and interesting, and, to top it off, cheap.

Not at all as cheap (not even close) but equally as worthwhile is the New York City Opera Company's almost traditional trip to the West Coast. This year it will be in LA in the latter half of November and the early part of December. The repertoire for this year includes "Giulio Cesare", by Handel, "Tosca", "Carmen", "La Traviata", "Il Barbiere di Siviglia" and several other operas, equally as great. With the cast, the music and the production, these will probably be magnificent performances. If you can scrape together the money and the ride, try to see them.

### In Mind

Several other possibilities to keep in mind: Beckman normally offers one or two fine classical artists a term; the Coleman Chamber Music Series presents several outstanding concerts during the year in Beckman; having seen the list of performances, I can highly recommend this year's set of Dabney Concerts (held free in Dabney Lounge) for both choice of pieces and performers.

By taking time to look for these concerts and making a point of attending the, that dread and easy slide into cultural oblivion can be avoided. And, after the concert, the place to go for that late night snack is the Caltech Coffeehouse, boasting good food, good atmosphere, and cheap prices, open 9 p.m. to 2 a.m. ("Conflict of interest? Who? Me?")

## All Hale!

Continued from Page One

She was an inveterate gambler. Drs. Huttenback and Stanford have lost many a quarter to her, and she was known by name by many Las Vegas pit bosses. "I shall miss playing blackjack for dimes," said Dr. Huttenback, although he may retain quite a few dimes in the future.

And she was a natural cook. Any student who looked undernourished was likely to get a meal to remember at the home of George and Ned Hale. Doc Stanford tells of a dinner at Ned's when he ate so much, "I was still full when I got up the next morning."

### Just Like Ned

Once Ned bought a trunk at an auction which she somehow managed to convince herself was full of gold. Three students loaded it into her car, and she felt sure that someone would follow her all the way home to rob her of it. Of course, when she got it home and opened it, it was full of nothing but rusty chains.

Perhaps Dr. Huttenback best summed up Ned Hale's long association with Tech and Techers by saying, "I cannot conceive of life here for the last 25 years without her." We'll all miss you, Ned!

# The Best Things In Life

by Peter Beckman

One of the most civilized customs associated with having special dinner guests in the student houses is the half-hour or so before dinner that is given over to conversation with the guests. Not only does it give everyone a small chance to get acquainted, but it helps place everyone in a nice mood for whatever inedibles Canteen Corp. will foist upon the poor students.

Traditionally, the primary beverage served at these get-togethers is sherry, a fortified wine, originally from Spain, with an alcoholic content of about 20 per cent.

Today, California produces sheries equal to all-but-the-finest Spanish sheries as well as a few types that skid-row bums might find distastful. The finer types are produced from the juice of the palomino grape, the same type from which the original Spanish wine is made.

### To Stomp or Not to Stomp

Mechanical processes have replaced the traditional Spanish foot stomping in the California wineries. Instead the juice is fermented in the normal manner, racked and fined to remove the sediment, then, when the alcoholic content of wine has reached about 15%, the "flor" yeast (*Saccharomyces beticus* to you biology trolls) is added. This yeast imparts the nutty flavor for which good sherry is noted. Finally, when the wine has reached the correct degree of dryness, brandy is added to stabilize the wine and to bring it up to the correct alcoholic content.

Most California sheries are blended. (In fact, the only vintage California sherry that I know about is Ingelnook 1965). This process occurs in a solera which consists of several tiers of barrels. Matured sherry is taken from the lower row a third or a fourth of a barrel at a time. Then the barrels are refilled from the row above and so-on until newly fermented sherry is added to the top row. This allows a continuous mixing of old and new sheries and thus

helps to produce a standardized product which is consistent from year to year.

### "How Sweet It Is"

California sheries are roughly divided into three classes which depend upon the amount of residual sugar in the wine. Dry sherry contains almost no sugar and are generally a pale amber color. Golden Sherry (occasionally just labeled "Sherry") is darker in color and contains a small amount of sugar. Cream sherry is definitely sweet and is generally a dark amber color. Today, dry sheries are more popular before meals than the sweeter varieties since they provide a better compliment to non-sweet hors d'oeuvres or nuts that are usually served. Many people (including myself) prefer to sip cream sherry before dinner since they like its

sweet richness.

Most of California's palomino grapes are grown in the central valley between Lodi and Fresno. The hot climate closely resembles that of the Jerez area in Spain where Sherry originated, but many of the best brands are produced by the North Coast wineries that also produce the finest table wines. The grapes are shipped up to several hundred miles to the wineries where the wine is fermented. This is due to each winery's desire to remain competitive by producing a full range of table and fortified wines. This is one reason why the location of the winery says very little about the quality of its sherry. It is the winery's methods and knowledge that are important in determining the quality of the final product.

## Frosh Disoriented at Calapina

by Channon Price

In what is threatening to become a regular feature of the orientation of Frosh, the entire class of '75, some official Caltech staff and other assorted, lucky toads were dumped on the island of Catamaran or Catalpa or something like that for forty nine hours of fun and games and get-acquaintanceship.

The tents all had a great view, and the staff in the lodge all had a great view-but not of the same things. Of the friendly (?) fauna that made appearances, the Eager Beaver Upperclassman and the somewhat rare Silver Crested Cactus Hurdler were the most notable. The Energetic RF'er also left his mark upon the camp.

The (ughh) food still put Food Service to shame-but so did the Topless Waiting Society.

## Ch 3 LIVES!

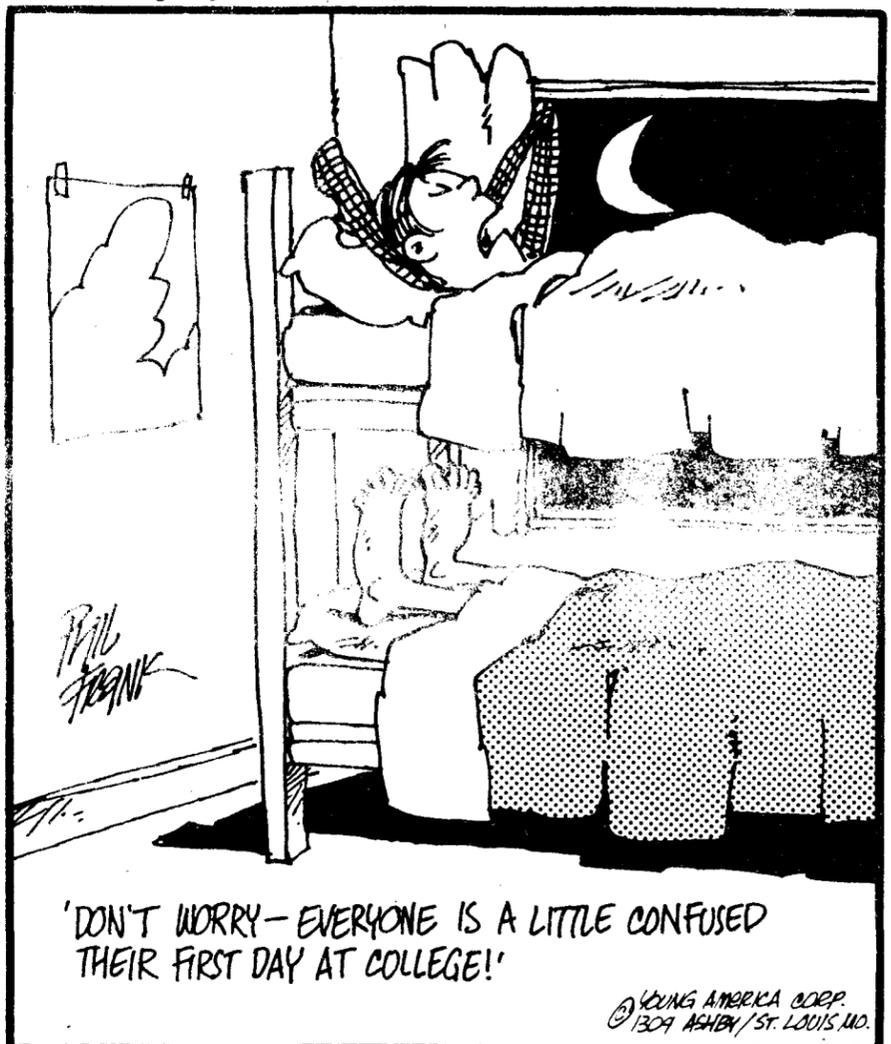
by Philip Massey

Although most upperclassmen, would have difficulty knowing how to direct people to it, frosh chem lab does indeed exist.

When the future of Gates Laboratory became uncertain, the future of freshmen chemistry lab became clouded as well. Several alternatives were proposed, such as class demonstrations and dry runs. However, the matter was cleared by moving the freshmen into small niches in labs in Spalding, Kerckhoff, Keck, Crellin and Noyes. This solution allows about a hundred freshmen to take Chem 3 at the same time, with it offered all three terms.

The experiments will be about the same as last year's and preceding years', with the option of going into such well-remembered projects as ACAC. Dr. Gordon stated that there would probably be one required acid-base titration followed by a few choices.

## frankly speaking . . . . . by Phil Frank



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**AT BECKMAN**

## Y Silences Films

by Claude Anderson

If you have the idea that silent films are nothing but jerky action, terrible action and plot, and poor photography, the silent film seminar offered first term may open your eyes and change your mind. Nearly all techniques in modern films stems from the silent movies, and the history of film-making will be explored from this viewpoint.

The sessions (held Mondays from 7:30 to 10:30) will consist of a short introduction to the films, showing of the films, and a discussion of the films.

Topics to be covered include:

1. D.W. Griffith - Origin of the film vocabulary.
2. The Russian Film: Eisenstew, Pudoovkin, Theory of Montage.
3. Slapstick Comedy: Sennet, Chaplin, Keaton, Lloyd, Langdon.
4. The German Film: Expressionism, Murnau and the moving camera.
5. Beginnings of the American Western.
6. The French and Scandinavian Film: Gance, Clair, Dryer.
7. The American Film: Robin Hood, von Stroheim, Von Sternberg.

Sign up in the Y office in Winnett Center by October 1. The seminar begins October 4. There will be a \$5.00 fee to cover the cost of film rentals.

## The Tech



### About Town

For those of you who did not read their *little t's* there are really things to do around this area and in Los Angeles. This column informs you of those things, particularly non-continuing musical events.

This week, we begin with the various rock and folk clubs in the area:

**ASH GROVE**, at 8162 Melrose in Los Angeles, is probably the best pure folk and blues club in the L.A. area. Admission is in the vicinity of \$2.00 per person. They have ads somewhere telling who is there and where to call for reservations.

**THE ICE HOUSE**, at 24 N. Mentor, is one of the best folk-rock coffe houses in the L.A. area, and is within walking distance of the campus. Admission is either \$1.50 or \$2.00 depending on whether it is a regular or special feature. Right now they have the We Five until this Sunday. Call 681-9942 for reservation or information.

**McCABE'S GUITAR SHOP**, at 3103 Pico Blvd. in Santa Monica, is a nice folk club for someone who has a car. Rick Ruskin and Harold Oblong are there this Friday and Saturday. Call 828-4497 for reservations.

**TROUBADOUR**, at 9081 Santa Monica Blvd. is a folk-rock club, and tends to get many of the top entertainers at a decent price (about \$4.00 per person including admission and drinks). Kris Kristofferson is there until Sunday. Dave Mason starts next Tuesday. Call 276-6168 for reservations.

**WHISKY a GO GO**, at 8901 Sunset Blvd. in Hollywood, is a rock dancing and eating emporium. You can get food, drinks and teenyboppers at reasonable prices there. Call 652-4202 for information.

In addition to the various clubs, there are pop concerts of various kinds in the near future. Classical concerts are listed on nearby bulletin boards, so I will forego those this week.

Ike and Tina Turner are appearing at the Greek Tehatre now until October 2. Poco and England Dan & John Ford Coley are at the Santa Monica Civic on October 1. Sly and the Family Stone and Rare Earth are at the Forum in Inglewood also on the 1st. The student coffeehouse at Long Beach State College has Albert Collins in concert the same day. The Allman Brothers Band is at the Santa Monica Civic on the 7th. Go to it.

Nick Smith



**"ORGAN POWER!!!"**

## Virgil Fox Plays Bach's

by Jeff Mallory

Virgil Fox, the "king of instrumentalists" and world famous organ virtuoso, will be coming to Beckman Auditorium for two performances of "Heavy Organ" Friday and Saturday, October 8 and 9. The all Bach evening will be highlighted by Pablo Light's fantastic light show environment, surrounding Fox with a dynamic pattern of visual sensations.

The Fox-Pablo combination has been acclaimed as a magnificent new interpretation of Bach and his music. The Decca recording of "Virgil Fox (Bach: Live at Fillmore East)" became an immediate best seller from coast to coast. They have won standing ovations and SRO audiences at nearly every performance.

Fox is universally accepted as the organ's foremost living virtuoso and innovator. He has developed a style and tonal spectrum over his many years of playing that have given the organ new dimensions and popularity. For 19 years he played the organ at the great Riverside Church

in New York (he played a 5-manual, 10,561-pipe model designed especially for him and rated one of the five greatest in the world). His repertoire of over 200 concert pieces is annually combined to produce as many as 70 recitals per season. His digital expertise and flair for showmanship have earned him solo performances with the New York Philharmonic, the Philadelphia Orchestra, the Boston Symphony, the Paris Opera, the Thomaskirche in Leipzig, ad infinitum.

The well known organist will be performing at Beckman on the colossal Rodgers Touring Organ, a mammoth instrument weighing over 2 tons. The Rodgers Organ Company of Oregon built the organ from designs provided by Fox. He has produced the closest electronic equivalent to the pipe organ that the music world has ever heard.

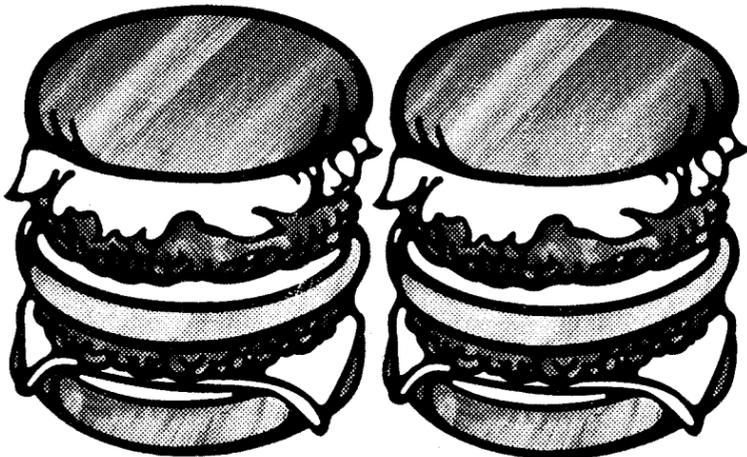
The organ in itself is somewhat sensational. It has three full manuals (six keyboards!), 102 stops, and is capable of simulating more than 20 instruments, including a variety of

Continued on Page Six

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# Rights & Wrongs At Attica

by John Tristano

The controversy over Attica emphasizes the growing political factionalism within this nation. On one side there are the radical liberals led by William Kunstler who want to recall every politician (and police officer) all the way up to President Nixon. Their claims include prisoners being selectively executed and prison authorities deliberately treating prisoners with excessive malice since the Attica incident.

On the other side there are "law and order" rightists including Spiro Agnew and George Wallace. Agnew stated that the radical left followed their predictable course causing first

confrontation, then violence. He also complained that the liberal press did not emphasize that all the prisoners at Attica had criminal records. Wallace stated that the "bleeding hearts and the courts" are responsible for Attica. With all these different people blaming everyone else it is easy to realize why a person can easily lose sight of the real issue.

Even though what exactly happened at the prison is still not known with certainty (due in part to a partial news blackout), the facts do allow one to at least basically figure out what happened. The prisoners did take over part of the prison, seizing prisoners and destroying part of the prison.

The guards did attack the prison with weapons, after filling the prison with tear gas. The tear gas used at Attica causes anyone who breathes it to keel over with intense stomach cramps within three seconds. All of the hostages as well as most of the prisoners died of gunshot wounds and only the invading police were armed.

Without question the prisoners were wrong in seizing innocent captives and destroying public property; however, were the prison authorities justified in their actions? The facts indicate that the prisoners

Continued on Page Eight

## Foxy Organ

Continued from Page Five

little known ones.

Both the organ array and Fox will float in an incredible sea of light patterns and symbols created by Pablo Light's. The Pablo light show fills a full 800 square feet of screen with gyrating, pulsating, prismatic displays of light and color effects. The group has backed such famous groups as "The Fifth Dimension", "Iron Butterfly", "Creedence Clearwater Revival", "Jimi Hendrix Experience" and such exciting personalities as Ed Sullivan.

Tickets for the performances of "Heavy Organ" at 8:30 on Friday, Oct. 8, and Saturday, Oct. 9 can be picked up at the Beckman Ticket Office for \$4, \$5, \$6 for Tech or JPL staff, \$4.50, \$5.50, \$6.50 for general public, or \$2.50 for students.

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## Grid Squad Hopeful

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"It Looks Like A Very Good Year" (First in a series of articles analyzing Caltech's athletic teams.)

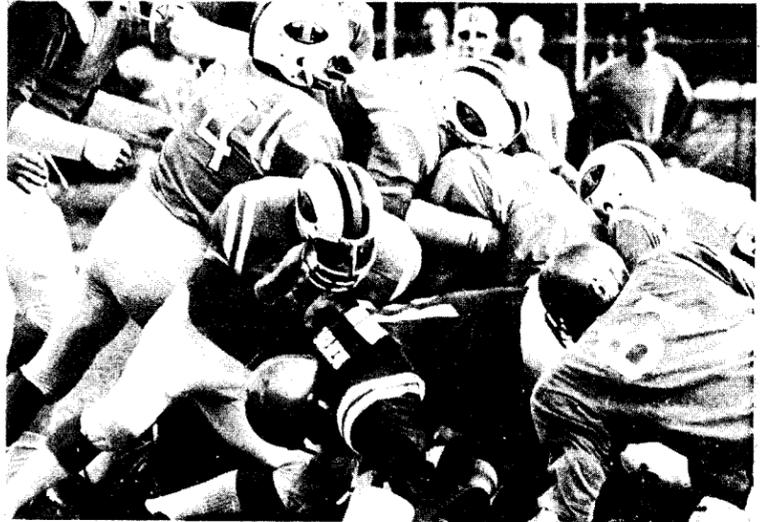
by Gavin Claypool

One victory in three years is not enjoyable.

This year's football squad plans to do something about it (haven't they all?) -- but it looks like this week Coach Tom Gutman might double his Caltech record.

Last year's record of no wins, five losses and two ties proves to be very misleading. Three losses were by fourteen points or less, and the other two were mismatches (U. of San Diego, 69-0, and Pomona, 42-7). Needless to say, those two are not on the schedule this year.

Why is Caltech ready this year? Says Coach Gutman: "There are five main reasons for our anticipating success this year. First, the overall improvement of our returning players. We had an influx of better than average freshman to fill out our thirty-man squad. This year we scheduled more equal opponents --



Cal Poly Pomona, and Azusa Pacific. Also, we plan to balance our running and passing attacks more.

"The changes we are making are subtle, but we think they will be the difference between a successful season and last year. Another thing is that the team is hungry this year, and thirsty, too. They want victories."

(One win in fifty-one tries has that effect.)

The team showed good form against the La Canada Ducks, a semi-pro team, beating them in a scrimmage 7-0 Saturday. Steve Bisset (HB, '73) averaged almost six yards a carry, and Gary Stormo (E, '72) caught five passes, including the lone TD toss.

Workouts started this year on September 10, featuring the one- and

two-a-day variety. Players to watch this season will be team captain Russ Pinnizzotto (G, '72), Bob Bales (QB, '73), Bruce Johnson (T, '72), Craig Broskow (G, '73), Lee Morris (DE, QB, '72), and Frank Hobb (G, '74).

Coach Gutman feels that the football program is definitely on the upswing. However, the support of the Caltech community will determine how long, and if ever, it will take to reach the program's fullest potential. He commented, "The games will be interesting. We'll go for the big play, and to the sidelines. Whether we succeed or not depends in part on the students faculty and staff of Caltech."

Tomorrow, against Whittier's JV team, will tell.

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**Sports Briefs**

**Win A Gutman**

**Football "Sweepstakes" Announced**

Coach Gutman has announced a special football contest, open to any member of the Caltech community.

What's the contest? It's quite simple. Draw up your favorite football play, sign your name, and submit to the football office for each week's contest. The coaching staff will pick each week's winner, and the play will be run at least once during that week's game. The author of the play will be announced during halftime.

The only restriction is that the play be logically developed and look somewhat feasible. The prize? Well, if the play works well enough, you may get to participate in a bonfire.

**Interhouse Sports Begins Oct. 8**

The first sport this year's interhouse competition will be softball, with practice starting October 4. Games will begin October 8 and continue through the 22nd. Further details may be obtained from your House athletic managers.

whelmed and we may lose the close games. And with only three frosh out for the team, many of our varsity starters will have to play the better part of two games every Wednesday and Saturday."

By the way, the team still needs a manager, so if you'd like to fulfill your P.E. requirement (and get a varsity letter, too) by keeping score of games for four hours a week, come down to the pool and talk to Lawlor.)

**THE SPORTS BEAT**

by Gavin Claypool, Sports Editor

You may be wondering what this column is all about. At any rate, that's probably why you're reading it.

Well, there are a lot of items that aren't long enough to warrant a whole news article. They'll be here. There are some that are more editorial than anything else. They belong here. And there will be things somewhat irrelevant, too, but I'll want to write them anyway. So here we go...

First, concerning intercollegiate athletics: Caltech, because of the massacre that would result, does not compete in the Southern California Intercollegiate Athletic Conference (SCIAC) in football, but rather operates as an independent on its own level. That's why JV and Frosh teams play our varsity. The other sports compete fully along with Claremont/Harvey Mudd, Occidental, Pomona, Redlands, and Whittier.

Another reason that this column is so weird is that I didn't have time to

sit down and write a nice, journalistic column. With the exception of water polo, all the articles on these pages were gathered, sorted, composed, typed, and checked by yours truly. In other words, I need HELP! (Don't we all) There's no way I can go to every game or meet that happens, which may account for the sudden demise of sports editors around here. So, come on out and get your G&C privileges. Girls are definitely included.

**Short Stops**

... Does anyone really believe the Dodgers-Giant race this year? It's got to be the most exciting in years, 1969 notwithstanding.

... Was Bruce Geller (creator of MISSION:IMPOSSIBLE) a Caltech alumnus? He must have gotten that idea somewhere...

Well, that's all for this week. Next week will feature either (a) "The Saga of Milt Family" or (b) a list of the various ways my life would be terminated if I included (a).

**Water Polo Hits Hard**

by Bob Kieckhefer

After three weeks of hard conditioning (while normal Techers were soaking up the sun, meeting frosh at Catalina, rotating, or just plain flicking) the 1971 water polo team is ready for its first games this weekend. After a trip to Santa Monica Community College tomorrow afternoon, the tankmen will host Chapman College Saturday morning at 10.

Hit hard by graduation (the loss of three all-conference players), this year's team will be captained by Steve Sheffield (who, as all little t scholars know, also received all-league recognition last year). Helping him on offense will be seniors Tim Hight and Tom Coates, both of whom are good scoring threats. Goalie Virgil Shields has improved greatly over last year, but with only one other member of last year's starting team back this year (junior Jim Jakway), the defense will lack the experience necessary to be a well-functioning unit early in the

season.

**Scrimmage!**

The full squad (now down to ten players, due to injuries and illness) has had only two scrimmages so far this year, one with an excellent P.C.C. team and the other at Santa Ana Junior College, which is also known for its swimmers. Although both times outclassed by faster or stronger swimmers, the Techers hung together and by the ends of the scrimmages they were moving the ball well. While half the team was at frosh camp last week the other half went down to L.A. Harbor College, where, bolstered by a few Harbor substitutes, they played a close game with a team about the caliber of their SCIAC competition.

Coach Lawlor Reck's major concern at the moment is the team's lack of depth. "While our starting team should be able to give all our opponents a good fight, if anybody gets injured or gets into foul trouble our substitutes may be over-

**Soccer Team**

**Ties One, Loses One**

In early season action, the Caltech soccer team has posted an 0-1-1 record against Rio Hondo Academy and Pomona.

John Rogers made his second goal of the evening with 15 seconds remaining to give the Beavers an overtime 6-6 tie against Rio Hondo on September 18. After staying in front most of the game, Caltech had a 5-3 lead disappear when Rio Hondo scored twice to tie the game in regulation time.

Bad breaks and a depleted squad (all the frosh were on Catalina) handed the Techers their first defeat last Saturday from Pomona, 7-0.

The cross country team makes its debut against Whittier tomorrow in an away meet. The Pasadena College meet scheduled for last Friday has been changed to October 19.

**EQL**

Continued from Page One

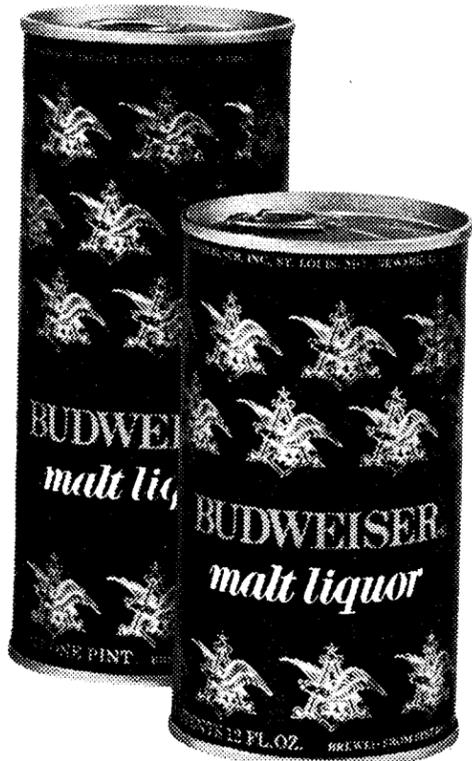
EQL administrator.

It is assumed people cannot be pried out of their one-man private cars," Braly said, "but EQL maintains that there is more public interest in this than is supposed.

EQL's effort so far has focused on preparation of lists of Caltech employees and grad students by neighborhoods. These are being mailed this week to the some 700 on-campus Techers who indicated definite interest in car pooling in a survey handled and compiled by EQL research aide Patti Horne.

Others wanting the lists can leave their names at the car-pool event, put a note in campus mail for Patti Horne (104-44, box outside 308 Thomas), or reach Patti at 2795. (Since EQL is moving from Thomas to Labney, it might be somewhat difficult to reach her).

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letters . . . . .  
 Continued from Page Two  
 between an irrational assumption and despair. I have learned that science need not be the complete solution to the things we can all see wrong in the world. Nor is any human solution a complete solution to any problem I may have personally. By seeking the complete solution Jesus offers, I am delivered from despair as well as from a forced irrationality. Jesus shows me the true nature and cause of all my problems, which is a real moral guilt before a real God who created me. Jesus also shows me the solution, which is His death and resurrection, in space and time, which frees me from moral guilt. This is a part of my faith that continually excites me which I pray may also excite all who read this.  
 Carroll Boswell

### Attica

Continued from Page Six  
 were in no condition to offer resistance to the invading officers after inhaling the tear gas. The free use of guns during the attack is therefore an example of overkill and caused the high loss of life at the prison. Therefore the prison authorities are directly responsible for the tragedy.  
 Overreaction from both sides, first by the prisoners and then by the law enforcement officials, is responsible for tragedy that occurred at Attica this past summer. If either side used moderation in their actions the tragedy would have been avoided.

### Internships

Continued from Page Two  
 which will be administered by the National Science Foundation, Veterans and those from high unemployment areas will receive preference.  
 The laboratories will be allotted \$7,000 for each intern and must match that amount with either cash or research support.

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