

FIRST OF ALL, I want to thank Dabney House for sending these brownies . . .
Photo by Ray Feeney

Coming:

A Winter's Totem

Caltech's literary-art magazine, *Totem*, is busy wallowing its way towards an early eventual completion date. "Er, yes, with any luck at all we should be really with it, as they say, by run-offs," an editor replied to careful questioning. "We're hoping to make this a really . . . issue," he added, "but we can't do it without."

Rumor does have it, however (see the last forty-seven news briefs), that *A Winter's Totem* will contain short stories, prose, poetry, photographs, art work, and other things that appear in the office during paste-up week.

Contributions Acceptable

It also seems likely that it's not too late to contribute. "We'd prefer cash, of course, but we'll take . . . anything." Anything would include the above items and things of a graphic creative

nature, done by anyone at all vaguely connected with the Institute.

Sign-up sheets have appeared in whatever houses did not have them, and there is one in Louise Hood's office in Winnett. *Totems* are given free to ASCIT members (and a few other people), but anyone who wants one ought to sign up on one of the sheets so there will be enough to go around. "We'd like people to, er, sign them," the editor continued. "That way, you see, there'll . . . well, we only have a couple of *Valerons* lying around. If you see what I mean."

Contributions ("don't forget the cash") should be directed at Phil Massey (Ruddock), Gesine Lohr (Dabney), Gavin Claypool (Ricketts), or Bob Coleman (Ruddock), or brought by Winnett and left with the *Tech*.

News Briefs

Northrup Represents U.F.O.'s

John Northrup, co-founder and ex-president of Northrup Aircraft, Inc., will be speaking on the subject: "U.F.O.'s—Yes or No?" at 2:00 p.m. on Tuesday, January 23 in 153 Noyes.

Pirates of Penzance Cast Announced

After listening to some twelve hours of auditions, the producers and directors of the Caltech production of Gilbert and Sullivan's *Pirates of Penzance* have tentatively decided on the following cast:

Major-General Stanley—Bruce McLaughlin, Understudy—Tim Erickson; The Pirate King—Jim Hugg, Understudy—Jack Bacon; Samuel—Steve Aley, Under-

study—Steve Gluckstern; Sergeant of Police—Bill Derrick, Understudy—John Teich; Mabel—Wendy Wright-Dirkson, Understudy—Judith McClellen; Ruth—Lorraine Broderick, Understudy—Kristie Harmon; Edith—Judith McClellen, Understudy—Kathleen Potter; Kate—Kristie Harmon, Understudy—Marie Beall; Isabel—Marie Beall, Understudy—Andrea Harth; General Stanley's Wards—Pauline Ho, Ann Clemmens, Anne Huntley, Brenda Grant, Francis Janssen, Andrea Harth.

Ay 30 Class Meets Tonight

The *crème de la crème* of the astronomy option, Ay 30, will meet tonight at 7:30 in the home

That's Him On The Left

The Return of the Moon-Darb

by Jim Ogg

Dr. Harrison (Jack) Schmitt, one of the Apollo 17 astronauts, spoke informally to Caltech geologists last Saturday night at a discussion held at the Athenaeum bar. The session mixed slides, science, and beer for an intriguing two hours. The main topics discussed were the various EVA stations and their geological features.

"The mission was something like an ordinary geology field trip, with the main difference in the methods used to reach the field area," Schmitt remarked. When the lunar rover lost a fender early on one of the excursions, Schmitt used a clamp

and a geo-survey map as a replacement. ("Try to do that with a land rover.") Mounting the rover was a process of "leaping backward, hoping to come down on the right part of the vehicle." The lunar dust created, according to Schmitt, "the most abrasive environment I've seen next to Tech." The dust had the penetrability of graphite, but exactly the opposite effects. "By the time we were ready to leave the moon most of the external moving parts on our suits had just about quit moving."

Words, Words, Words

Schmitt explained that while on the lunar traverses the

astronauts concentrated on observing and verbalizing rather than on remembering. They devoted their mental energy to recording via photographs, samples, and vocal communications — something unique in geology. Even the events surrounding the discovery of the orange soil were vague to Schmitt later.

"Everything I say is prefaced by 'we still don't understand it,'" said Schmitt as he reviewed some of the more unusual features including the apparent stratigraphy of the lunar hills, dike-like material found in one boulder, the track made by a boulder that rolled obliquely

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The CALIFORNIA Tech

Volume LXXIV

Pasadena, California, Thursday, January 18, 1973

Number 14

ASCIT Meeting Bears Resemblance To The Weather

by Peter Beckman

Braving the disgustingly bad weather, the ASCIT Board of Directors met Tuesday afternoon in Winnett Lounge to conduct what little business is left in these closing days of their administration.

Dave Peisner opened the meeting by reporting on ASCIT finances. The organization currently has about \$2000 in cash and all outstanding bills have been paid. Beyond this there is no reserve fund, and last year's yearbook money has been used to pay current bills. A dues check for around \$7000 will be coming soon, but this money will be needed to take care of ASCIT's liabilities. After Dave ended his report he was officially commended by the BOD for the excellent job he has done with the ASCIT books.

Pay and Promises

Due to the Country Joe fiasco, the BOD decided to cancel the February concert by

Continued on Page Three

Oliver Announces His Candidacy

Dr. Robert W. Oliver, associate professor of economics at the California Institute of Technology, has announced his candidacy for the Pasadena Board of City Directors, an elective office. Dr. Oliver was born in Los Angeles, California, where he received his early education. In 1943 he graduated, *magna cum laude*, in International Relations and Economics from the University of Southern California.

Since becoming a member of the Caltech faculty in September 1959, he has conducted courses in elementary economics, urban problems, international economics and economic development. During the years 1961-63 he administered a special faculty-graduate student seminar on the problems of technical assistance in underdeveloped countries. He was employed by the International Bank for Reconstruction and Development as a research historian in the summer of 1961. He traveled in East and Southern

Africa in the summer of 1962 as a co-chairman of a Caltech Research Team.

During 1964 he was chairman of a Pasadena Citizen's Bond Committee. In 1965 he was elected to a four-year term on the Pasadena Board of City Directors (the Pasadena City Council) from which office he retired in 1969 without seeking reelection. In 1970-71, on leave from Caltech, he was employed in the Economics of Urbanization Division of the World Bank in Washington, D.C. He participated in Bank Missions to Indonesia and Taiwan.

He is a member of the Pasadena Planning Commission and president of the Pasadena Beautiful Foundation. He is a past president of the Michillinda Park Association. He has been a member of the World Trade Committee of the Los Angeles Chamber of Commerce, the Board of Directors of the East

Continued on Page Five

Orange War/Soil Theory



SECOND OF ALL, I want to ask you, Gene Shoemaker, why you flicked in a wondrous Geology field trip just to see me?
Photo by Ray Feeney

of Dr. J. B. Oke, 1855 San Pasqual Street. Students are asked to bring their preliminary outlines for their paper on the nutritional values of various commodities.

Fibonacci Club Meeting Saturday

The H analysis group of the Fibonacci Club will hold a seminar in Clubroom 1 on Saturday, January 20. Preliminary subgroup reports will be discussed. Attendance will be restricted to members. Time: big hand on twelve, little hand on eleven.

Slide Rules vs. HP-35

Tomorrow is Add Day.

Editorial

Give Enormously

Next week the Caltech Y will hold its annual fund drive. Students will be given cards with which they may pledge amounts to be placed on their next term bills or which they may return with cash donations.

Students generally contribute between \$3000 and \$3500 to this annual fund drive. This represents only a small fraction of the Y's operating budget, most of which comes from outside donations, but the student contributions are very important since a generous fund drive response impresses outside donors and helps to convince them to also give generously.

The Caltech Y performs many functions and services that Tech students would otherwise do without. It is by far the most active organization on campus, and Tech would be much poorer without it. Show your appreciation of and support for the Y. Give generously.

Peter W. Beckman
Gavin D. Claypool

Schmitt—

down a hillside, and the orange soil. Schmitt hypothesized that the latter was a pyroclastic block ejected from the adjacent crater. The thin layer of gray dust on its surface he termed as probably the youngest formed material found on the mission.

Drink, Drink . . .

Throughout the presentation, a continual barrage of questions was thrown at Schmitt by the geologists in front. (At one point Schmitt commented, "There is the grand-daddy of lunar stratigraphy, stretched out on the floor, drunk again.")

The astro-Darb also gave details of the mission's major experiments. In reference to one called LACE he said, "I should have told Houston that it detected arsenic." Schmitt also stated that the study of lunar geology will give an understanding of lunar history, and predicted that in a few years there will be a working hypothesis of the moon's evolution.

. . . And Be Merry

After the discussion, Schmitt commented on his days as a student at Tech. For frosh initiation he drank a quart of beer with a straw. The "Ride of the Valkyries" wasn't the tradition it now is; each house had its own finals theme — Dabney's

was a funeral march.

"What science needs is trained management. Caltech should train science managers in addition to researchers. Otherwise science and research funding will remain subject to the whims of non-scientific people and politics," said Schmitt. As an example he cited the termination of the moon program and the reduction of other NASA projects.

He closed the evening with this piece of advice for Caltech students: "Science is too oriented towards narrow specialization. It is good to experience this in working for a degree, but then one should back away and look at the bigger picture . . . remain a generalist, don't stay confined to a special niche."

ASCIT

Nominations for the offices of President, Vice-President, Secretary, Treasurer, IHC Chairman, Director for Academic Affairs, Director of Student Life, two Directors-at-Large, Social Chairman, Activities Chairman, Athletic Manager, *California Tech* Editor(s), and Secretary of the BOC are still open.

Nominations will remain open until Tuesday, 23 January.

THE ASCIT FRIDAY NIGHT MOVIE THE OMEGA MAN

Starring CHARLTON HESTON

This Friday in Baxter Lecture Hall
at 7:30 and 9:30 p.m.

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

NEXT WEEK:

KUBRICK FESTIVAL

THE CALTECH FORUM

Master Key Policy Rapped

The master key policy of this campus is very bad. The fault lies partly with the Board of Control and partly with the Administration. I will first deal with the Administration policy and then with the Board policy.

Because of the key policy of the Administration, the students need master keys to enter the classrooms and libraries in the evenings. It is fair to say that the students have as much right and reason for access to the libraries — including the chemistry library — as anybody else. It is also fair to say that they should be able to use the classrooms in the evening. The noise and other distractions in the Student Houses gives them good reason to want to study in the classrooms.

Therefore, the Institute should issue keys to each student for most building entrances and for all libraries. If there is any reason to lock the classrooms at night, the Institute should issue keys for the classrooms; if there is no reason, the lock should be removed from the classroom doors.

After such action on the part of the Administration, unauthorized possession of master keys by students should be against the honor system.

Because of the erroneous belief that they own the campus, students use their keys to get into places where they have no right to be. Added to this, they have the bright idea that they are privileged and competent to use and repair anything. Their privilege is usually non-existent; their lack of competency is shown by the locks in the Student Houses and much of the interhouse damage.

Continued on Page Five

Student Locksmith Opposes Restrictions

A lot of political hogwash has traveled around the *California Tech* concerning master keys. I, as a member of the organization of campus locksmiths, have another opinion to throw into the arena.

First of all, as has been noted in previous letters, the master key prohibition will not help the "unauthorized entry problem" at all, since anyone who has a master knows where to get more. What it does is keep students from making full use of the facilities they pay to use. This is an obvious rip-off of the rights of the students.

Second, master keys have, in my experience, been not only a convenience but vital in some cases. Any emergency (a fire, for instance) involving a locked room requires rapid access to a master key. Responsible students should have masters as a public safety measure. [There are at least two recent cases known where undergrads have put out fires and saved property in locked rooms in Tech buildings — Ed.]

Third, in conversations with several campus security guards, I have been told that in most rip-offs, employees, ex-employees, ex-students and outsiders are almost always suspected over students. With this in mind, a more sensible board ruling would be that a fine be imposed on students found to be giving masters to outsiders. Probably unworkable, but certainly fairer.

The campus locksmiths have a long-standing policy to issue any master to a student showing a reasonable degree of responsibility (in their judgement, of course) and need for it. Other students have asked for instruction [in locksmithing], which we honor with the philosophy that

Author Upset About Article

I find in questionable taste your printing of an article I wrote over a year and a half ago for *Engineering & Science* magazine about the scaling of Caltech Peak. At the time that I wrote it I was not in full possession of my faculties. Fortunately at that time the editors of *E&S* took pity and did not print the abortion. I had then with profound relief forgotten the incident and proceeded to mend my ways.

Now, to my chagrin, I find that you have printed the damn thing. It's not even funny! Have you no taste?

— Dave Brin

knowledge need never be withheld from a Techer.

I violently oppose any effort of an artificial organization to control the lives of the people it is supposed to protect. The BOC might impose a curfew on campus with the same intent to protect the Caltech community! Rules governing the innocent and responsible should not be imposed by ASCIT committees, and an attempt to do so violates the trust its members place in it. If this action is not in fact unconstitutional under ASCIT, I urge the students to support a general effort to make it so. We

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FRANKLY SPEAKING

by Phil Frank



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Caltech Y

Programs Still to Come

by Etaoin Schroedlu

What do Art Galston, Alan Watts, Julian Bond, Anais Nin, Shirley Hufstедler, Baba Ram Dass, Dick Gregory, Ralph Nader, Leon Silver, Ralph Hornbeck and Virginia Carlson have in common? That's easy — they're all on line to be featured in future programs of the Caltech Y.

Dr. Galston, American scientist who visited Communist China in 1971 and 1972, is speaking at a series of seminars today, sponsored by the Y's Leaders of America program. Daytime seminars are "Education and Science in China", the Athenaeum Luncheon Forum at noon (by reservation), and a biology seminar, "Organization of the Universities in China," in 168 Church Lab at 2:00 p.m. At 7:30 p.m. Dr. Galston will speak in Baxter Lecture Hall on "Life in a Chinese Commune."

Good Earth?

Tomorrow Dr. Galston will speak on "Aspects of the Scientific Community in China," at noon in Clubroom 1 (by reservation with the Caltech Chinese Student Association), and will hold a drop-in seminar in Winnett Lounge at 2:30 on "Impressions of the Life and Leaders of China."

Other confirmed Y visitors are novelist Anais Nin (12 February), Alan Watts (22 February), and black political leader Julian Bond (12-13 April), another Leader of America. A confirmed but dateless guest is Judge Shirley Hufstедler, regarded as one of the leading jurists in the West, and a possible future Supreme Court nominee.

Negotiations are still underway with Gregory, Nader, and Baba Ram Dass.

Silver Threads

Dr. Leon Silver, Caltech professor of geology, will speak on "Some Humane and Inhumane Aspects of the Apollo Program," January 23 at noon in the Y Lounge. Dr. Silver was in charge of the geological training given to America's moon-shot astronauts.

On Wednesday the 24th the Y Luncheon Forum presents Dr. Ralph Hornbeck, superintendent of schools in Pasadena from February 1969 to August 1972. This period included the storm of controversy over school integration, and the Pasadena Plan. Dr. Hornbeck will speak on "Integration — Is It Worth It?" The talk will be in Clubroom 1 in Winnett, and buffet lunch will be available for \$1.60.

Mrs. Carlson, superintendent of the California Institution for

Women in Corona, will speak on "The Educational Focus for Women of California's Department of Corrections," at another Y Luncheon Forum, February 7.

The Y's annual fund drive will begin the week of January 22-26. Anyone interested in helping to support the Caltech Y's programs with contributions, please get in touch with the Y offices at extension 2163.

What Does Excom Do??

Among recent Excom projects has been a report on student life at various other campuses and an investigation into possible discounts for Tech students at local businesses. Excom also functions as a clearinghouse for student complaints. In this function it has recently proposed that any change in student house architecture and/or area design included a check with the students. This proposal arose after it was discovered that the proposed relandscaping plans would make it quite difficult for autos to use the Olive Walk.

Magic Ballot Boxes?

Excom has also called for a system of ballot-box watchers after the magic Dabney House ballot-box mysteriously disappeared during a recent by-laws amendment referendum, thus voiding the results.

A gleam came into Dave Drake's eye as he explained the official function of the ASCIT Executive Committee or Excom, being chairman of that organization. "The BOC may interpret the By-Laws (of ASCIT) one way, but we have the final say."

But, alas, such judicial power is rarely used, the chief business of Excom dwelling in the mundane but sometimes exciting realm of a sounding-board for ideas, any ideas. Drake relates, "We usually just get together and throw out student suggestions or ideas involving students. Then we either tear them down or build on them and push the good ideas at BOD meetings."

Continued on Page Seven

Is W. Shakespeare Finger-Pickin' Good?

by Marc Donner

Clifford David and Mariette Hartley will bring love to Caltech this Saturday in a production known as *Love from William Shakespeare*. Shakespeare is the guide on this tour through the games that men and women play in the cause of love — with two experienced and versatile actors as interpreters. Romeo and Juliet, Lorenzo and Jessica, Hamlet and Ophelia representing individuals of high ideals lead into the more mature and lively games of Beatrice and Benedict, Hotspur and Lady Percy, and Katherine and Petruchio. The performance will be at 8:00 p.m. in Ramo and the tickets are \$5.50-4.50-3.50.

The last Tuesday night at the Silent Movies with organist Chauncey Haines is coming up soon. This Tuesday, January 23, at 8:00 p.m. will be Comedy Night. Presented for your hilarity will be such classics as *Sherlock, Jr.* with Buster Keaton and *The Rink* with Charlie Chaplain. Haines prepares very carefully for each movie in order to be able to play music to fit the action (we all know it when it doesn't) and he does an extremely good job.

"Momma! Daddy!! The Circus is coming!!" "What?" you might wonder as you hear that insane cry. Yes, indeed, the Caltech Circus will be here on January 27 (that's a Saturday) in Beckman at 11 a.m. and 2 p.m. It will be accompanied by a movie in Ramo and a model display and lithograph exhibit in various places around campus south of San Pasqual. The same attractions will also be open (on slightly different hours) Sunday.

Guitar Music

In order to prevent the lynching of the Beckman ticket office people a few weeks hence, notice is formally given to all those anxious lovers of guitar music out there that there will be a big schedule of guitarists this season. Not only that, but Techers are being offered super-special rates on tickets.

On Saturday, March 3, Carlos Montoya will bring glory to Beckman with his flamenco

guitar. One of the best renowned and most gifted of guitarists, Montoya brings his guitar to life with the traditional gypsy themes which are the spine of flamenco. On March 15, a Thursday, Julian Bream, master of guitar and lute, will appear in Beckman. He revivifies the neglected music of the Elizabethan and Jacobean eras.

Saturday, April 14, will bring Pepe Romero back to Beckman; this time in the company of Neville Mariner and the Los Angeles Chamber Orchestra. Pepe, along with his father and brothers, thrilled an SRO crowd in Beckman only a month or so ago. Last (and, as the cliché goes, not least) will be Christopher Parkening, who will perform in Beckman on Tuesday, April 24. Parkening, still in his twenties, is praised as America's first important classical guitarist. He has studied under many of the greats in guitar, among them Celedonio and Pepe Romero.

Series Tickets

The ticket office is offering fantastic rates on these four concerts; they have 84 series tickets for Techers at \$4 (that's right, four) for the whole shebang. After these run out they have 84 more for Techers at slightly higher rates, Montoya—\$2; Bream—\$2.50; Romero—\$2.50; and Parkening—\$1.50. I suggest you H-U-R-R-Y!

BOD Meeting

Continued from Page One

Mike Nesmith and the Dillards. It is still unclear how much of the deposit money will be returned. The BOD also approved a payment of \$160 to Rik Krueger for work he did over the summer.

The last act of the meeting was a report by Jim Hugg on the formation of an Ad Hoc Committee on Undergraduate Student Life. This faculty-student committee will explore and report on such topics as humanities, admissions, independent study, undergrad research, and the need for an undergrad school at Tech.

Persons interested in serving should contact Jim Hugg in Page House.

PUBLIC POLICY

For the college graduate who wants to play a part in shaping social policy and social change.

**Two Year Professional Degree
Master of Public Policy
Offered by the Graduate School of
Public Policy
University of California, Berkeley**

Growing numbers of college graduates are seeking the skills and training that will enable them to help solve pressing problems in areas of public policy, such as health care, the environment, education, and the like. Governmental research and community organization are coming increasingly to recognize an urgent need for trained analysts to help design, implement, and evaluate new and effective domestic policies and programs.

The field of the applicant's undergraduate major is not critical for admission; we welcome applications from engineers and scientists as well as from those with degrees in the social sciences and humanities. The applicant should have serious interest in making a career in the area of public policy.

If you are interested in learning more about the program, contact your Placement Center immediately for an interview with Prof. Bart McGuire of the School, who will be on campus Jan. 25 from 2:00 to 4:00 p.m.

Please send me the brochure and an application for the Graduate School of Public Policy, U.C. Berkeley.

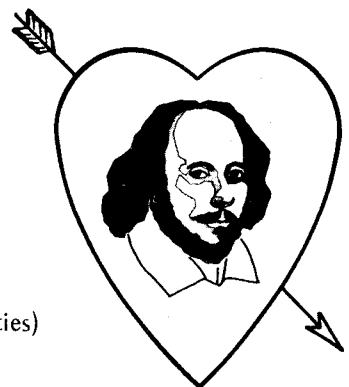
Name

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Saturday, January 20/8:00 p.m.

Clifford David and Mariette Hartley in "LOVE FROM WILLIAM SHAKESPEARE" directed by Murray Barnett with music by Morris Mizrahi



RAMO AUDITORIUM (Baxter Hall of the Humanities)
Caltech prices: \$5.00-4.00-3.00
(Caltech students: \$2.00, or \$4.50-3.50-2.50)

Two fine performers with wide backgrounds in stage, television and film work, bring a program of different perceptions of love as seen by Shakespeare. Mariette Hartley and Clifford David bring to the intimacy of Ramo's stage Romeo and Juliet, Hamlet and Ophelia, Lorenzo and Jessica, Beatrice and Benedict, Hotspur and Lady Percy, and Katherine and Petruchio. Renaissance lute music and Shakespeare's sonnets bridge these encounters.

The Critical Ear

Live at the Ice House, Tim Morgan

One reason why Tim Morgan has never really achieved star status is probably that most of his appeal is in seeing him live. His music is good, his renditions of popular songs easy to listen to. He is just not spectacular enough vocally to be a star.

In person, Tim Morgan is much better, for he has good audience rapport, and is clearly having fun on stage. He jokes with his sidemen and the audience, and puts everyone at ease.

This album, the 42nd music or comedy album recorded at the Ice House, puts Tim in the best recorded light possible. He sings good songs well, and benefits from a friendly audience. He comes across well on this album, and it is unfortunate that more people won't hear it on the radio or something. In any case, if you get a chance, listen to this one.

For the Roses, Joni Mitchell, Asylum SD 5057

This album, Joni Mitchell's fifth, contains some of her most beautiful lyric work. "Judgement of the Moon and Stars," a tribute to Beethoven, ranks with the best pop-music poetry. "You Turn Me On, I'm a Radio" is fast and free, a popular song from the start. "Blonde in the Bleachers" is her version of "Superstar", the song of a groupie of one kind or another.

The music of Joni Mitchell does funny things to you when you listen. Sometimes you feel a little guilty for listening a little too hard to someone's thoughts. Sometimes the music gets inside of you and you feel the fire and chill tearing at you from the inside. Sometimes you fall into the song, and become the one sung to, or turned away from, sensing the beauty and pain of the music. Sometimes you can only stand and watch as the song goes on without you, and you feel sadness. And sometimes, just sometimes, you sit there watching the words flow past, and when the last one does you lean back and say, "That was good," knowing your words were totally insufficient but having to say them anyway. Always, *always*, you are a little sad that there isn't more to listen to than there is.

DAVID CLAYTON-THOMAS TEQUILA SUNRISE

including:
Yesterday's Music One More Time Around
Down Bound Train Nobody Calls Me Prophet
Bread n Butter Boogie



Tequila Sunrise, David Clayton-Thomas, Columbia KC 31700

This album is D C-T's second or so since leaving Blood, Sweat & Tears, and the first worth listening to. The background musicians actually sound as if they rehearsed, and DCT sounds as if he means business when he sings these songs.

The music largely consists of Clayton-Thomas' own writing, which is acceptable. "Nobody Calls Me Prophet" is actually pretty good. The best songs on the album, however, are "Down Bound Train," an old Chuck Berry song, and "The Face of Man" by people I've never heard of.

I still think that the best music that David Clayton-Thomas ever did was with B,S&T, but at least this album isn't bad.

- Nick Smith

Cuna Indian Art, Carib in Baxter

by Eric Eichorn

An exhibit of Cuna Indian art and artifacts is open in the gallery in the basement of Baxter from now until January 23. The exhibit is the result of a vacation trip by Roy and Helen Wildman. As part of a tour around the Carribean they stopped at the San Blas Islands, the Cunas' home, expecting to stay for a short time. They found themselves so fascinated by the people there that they stayed for a period of nine months. During that time they collected art, tools, photographs, and sound recordings from the community. Three of the Cunas returned with them to visit the United States, and are living with them.

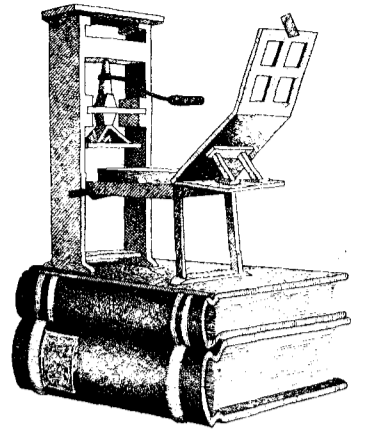
The exhibit is divided in three parts. The first part, the one visible on entry to the gallery, consists of art inspired by the injection of other cultures into the Cuna society. It includes depictions of commercial products which have found their way into the lives of the tribe members, TV test patterns, and objects made for the expressed

purpose of selling to tourists.

Another section of the gallery, that to the left of the entry hall, contains art and tools from the daily lives of the tribe. The predominant medium here, as in the rest of the exhibit, is the *mola*. This is a picture or design made by attaching small pieces of cloth to a large cloth base. They are made to be part of a woman's garment, and some of them have been used for that purpose. Also shown are wooden toy dolls, tools, and jewelry.

In the back of the gallery are works depicting tribal rites and spirits. The ceremonies shown include the "coming out" party given to young women when they are considered ready to enter society. The spiritual representations are those of the demons who are believed to cause illnesses, the healers who chase away these evil spirits, and the souls who are passing from one world to another.

The exhibit is open from 10:00 a.m. to 5:00 p.m., Monday through Saturday. There is no admission charge.



BOOKS

On December 18, 1972, W. H. Freeman and Company published *From Stonehenge to Modern Cosmology* by Fred Hoyle. In four essays, one of the great intellects of our age demonstrates how astronomical knowledge is a main index of human culture. If we accept the strong evidence that at least the first builders of Stonehenge, some 4500 years ago, intended one of its uses to be the prediction of solar and lunar eclipses, then Hoyle's investigation of their probable methods demonstrates how remarkably sophisticated their astronomical knowledge was. Hoyle also offers evidence of Stonehenge's possible influence on the development of modern culture. It may have contributed to the origin of the game of checkers, the "luck" and "unlucky" associations of the numbers 7 and 13, and the seven-day week!

In the third and fourth essays, Hoyle explores the concept of a declining gravitational "constant" and what confirmation of such a phenomenon would mean for modern cosmology. Professional as well as amateur anthropologists, astronomers, and physicists (as well as many readers with other interests) will be intrigued and enriched by this volume.

invariably come in screw-cap bottles. They are good, ordinary wines, generally superior to their European *vin ordinarie* counterparts.

The Caltech Wino

Generic Generosity, Red, White and Otherwise

by Peter W. Beckman

California wines are generally divided into two categories — varietals and generics — based on grape types. A varietal wine is made primarily from one type of grape, and it is labeled under that name. A California generic, on the other hand, is generally named after a European wine type it supposedly resembles, and may be made from any number of grape varieties.

Varietals undoubtedly represent the acme of California wine making. Since they are made from the most expensive grapes and given the best care, they naturally tend to be the most expensive and famous of the California wines. Unfortunately, they overshadow their generic cousins to such an extent that

many persons automatically assume that a California generic must be a cheap, ordinary wine.

This is not necessarily true. While many California generics are nothing to brag about, those produced by some of the premium coastal wineries are excellent buys. They test, in many ways, each winemaker's ability to blend a group of grapes into a wine that is both pleasing and reasonably inexpensive.

Beaulieu vineyards, which has traditionally produced one of the finest Cabernet Sauvignons in California is also far ahead of the field in the quality of its generics. The winery's *Burgundy* (\$2.00), made from Gamay and Mondeuse grapes, and *Chablis* (\$2.25), made from Pinot Blanc, Pineau de la Loire, Melon de

Bourgogne, and Colombard, are both excellent table wines, although their price tags place them with many varietals.

On a less expensive level, Louis Martini's *Mountain Red Wine* (\$1.59), and Oakville Vineyards *Our House Wine* (\$1.49) are fine, light reds that should go well with any red meat.

Finally, there are the vast bulk of ordinary generics produced by California's larger wineries. Most of these taste pretty much the same, having been blended, sterilized and filtered into obscurity. They generally contain a little more sugar than California varietals, and they

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Dr. Oliver—Standing Still

Oliver Runs

Continued from Page One

Pasadena Youth Center, the Human Relations Committee of the City of Pasadena and the Pasadena Chamber of Commerce, the Pasadena Recreation Commission, and the Southern California Association of Governments. He has been a director of Pasadena Beautiful Foundation, the Pasadena-Foothill Urban League, the Foothill Area Community Planning Council, and the Pasadena Job Development Corporation. He is a member of the Tournament of Roses Association, the Pasadena Art Museum, the Pasadena YMCA, the NAACP, and the San Gabriel Valley Planning Council.

He is chairman of the Faculty Nominating Committee and the Faculty Committee on Programs. He has been chairman of the Graduate Student Housing Committee and is currently a member of the Caltech Faculty Board, the Special Laboratories Committee, the Freshman Admissions

Committee, the Administrative Committee on Relations with the Community, and the Board of Directors of the Caltech YMCA.

Following are excerpts from Dr. Oliver's statement of candidacy for the Board of City Directors.

I have decided to seek election to the Pasadena Board of Directors to represent District 5.

Four years ago, with regret, I declined to seek reelection to the City Board. At that time it seemed to me necessary to accept an invitation to work for a year in Washington, D.C., with the Urbanization Division of the World Bank. Today I am again able and willing to serve the people of Pasadena if they wish me to do so...

Property values are unnaturally low. Too many high-density apartments are being built. Too many houses are deteriorating. Downtown development is being emphasized at the expense of residential improvement. Too many city decisions seem to be made in secret. City government has moved away from the people, and school and city people do not work well together for the public good.

We must maintain Pasadena as a prime single-family residential community. We must control crime in our streets, beautify our homes and public parks, rewrite the R-3G ordinance which permits high-density apartment construction, and enforce our housing codes. We should oppose a substantial population increase which will choke our streets and pollute our air. We must seek ways and means of reducing taxes on owner-occupied homes. We must work constructively for

quality public education, and that includes maintaining proper standards of conduct on the school grounds. We must do whatever is necessary to reverse the flight of white children away from our schools. In general, we must support our new superintendent of schools as he works to solve the extraordinarily difficult problems of education in a multi-racial community...

The incumbent director from District 5 has served four years, as I did. He has spent many extra hours on city business, as I did. Both he and I believe in a progressive Pasadena and have been willing to work for such a city. But he is more representative of development than of residential interests. He has supported the variances, the rezoning, and the apartment developments which are undermining Pasadena as a single-family residential community. He has not brought harmony to the City Board, nor has he gone out of his way to stay in touch with the people of his district. He sometimes seems to be more concerned with representing clients and special interests than the people of Pasadena as a whole.

I would be pleased to serve the people of Pasadena again, to do my part of make us justly proud of our city. I believe in the city where my children attended public schools and where my wife and I will continue to live and work. And I expect in the forthcoming campaign to meet the people of my district and to speak out on the issues of the day. I shall welcome offers of support. This will be a difficult campaign, but I believe it can be won.

Grand Funk on TV Friday

by Eric Eichorn

Grand Funk fans are hereby alerted to a televised concert to be given by the group. It was taped before a very live audience in Madison Square Garden, and will be shown on KABC-TV (channel 7) on Friday from 11:30 p.m. to 1:00 a.m. The sound portion of the concert will be simulcast in stereo on KLOS-FM, 95.5MHz. Blackgrass appears with Grand Funk Railroad, and Freddie King spells them for one segment.

This concert surmounts a common difficulty of such shows taped from a live audience event: cutting in and out in the middle of songs. All numbers are presented in their entirety. It

does tend to lack continuity, however, due to the too frequent commercial breaks.

One very worthwhile break in the concert is a filmed interview with the staff and residents of Phoenix House, a free drug treatment center. Grand Funk has taken a stand against hard drugs, and donated all their proceeds from the sell-out Madison Square Garden concert to Phoenix House.

Grand Funk is headlining the first of a biweekly series of *In Concert* programs simulcast on ABC-TV and -FM stations across the country. The series is shown on alternating Friday nights, as a part of the *ABC Wide World of Entertainment*.

Key Policy

Continued from Page Two

To be more specific about the misuse of master keys, I will consider the labs, the student shop, and the porters' rooms. I know that there have been entrances into and breakage in locked labs by students who had absolutely no right to be there. Some of the instances were made worse by attempts to repair the damage.

Non-members of the student shop have entered and used the tools of the shop. The use of the tools is for members checked out on them only. I have seen students with master keys that did not know what to do with them. As they entered the covered walkway next to Fleming, they were so hot to use them that they opened the

porters' room on the northwest corner of the House. With insane desire to use their magical keys, students wander in places where they have no right to be.

As another objection to master key is that many professors resent students having a key to their offices. They consider their offices — where they keep important and personal things — private. They expect their offices to have the protection of private rooms. In civil law, buying of keys to a house not your own is regarded as conspiring to enter.

Why should students be allowed to have a key that fits private offices, labs, and other rooms that they have no right — and often no reason — to be in.

— Pete Mayer

[Ed. note: This letter is reprinted from the February 4, 1960 *California Tech*.]

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Basketball

Garble Tom, Part 2

Beavers Top LABC

Friday night Caltech evened its season basketball record at 3 wins and 3 losses with a 70-66 decision over the L.A. Baptist Mustangs. The win also represented a sweep of this season's home and home series with the Mustangs, as the Beavers had posted a 68-62 decision at L.A.B.C. before Christmas. It was sweet revenge for the senior-laden Beaver squad, who before this year had never tasted victory over the Mustangs and once last season were beaten by more than 60 points.

Fast Start

The Beavers, who never trailed in the game, were led by senior forward Mark Bleck's game-high 24 points. The total represented a varsity career high for Bleck, who also led the game for Caltech in rebounds (8) and assists (6).

Caltech, shooting well for the first time since the Christmas layoff, opened a 7-0 lead in the opening minutes and lead by 10 to 13 points for most of the first half, though the Mustangs cut the lead to 9, 36-27, at the half. In the second half, L.A.B.C. continued to employ a full-court zone press and the Caltech guys went strangely silent for a time. Even though their defense remained good, the Beavers' lead began to disappear.

After about five minutes, it had dwindled to 37-32, but then the Beavers found the range, as Bleck, captain Jerry Feely, Don Keenan, and Durwin Wright began to score. The Caltech lead remained about 6 points until the last 2 minutes

when it was cut to only 3 by some hot L.A.B.C. free-throw shooting. However, two pressure free throws by Keenan, 3 by Chris Cooper, plus a fast-break basket by Bleck, all in the last minute of play, maintained the victory for Caltech.

Good reserve performances were turned in by John Schroeter, filling in for starting center Bart Locanthi who also was in foul trouble much of the second half, and by Mike and Mark Bandhauer.

EXCOM

Continued from Page Three

Excom meetings are amazingly short considering the bureaucracy Excom operates in. Drake says that meetings usually last about a half-hour and "in that time we generate as many minutes as the BOD does in one of their meetings."

More questions regarding Excom, impetuous person? Then see Dave Drake in Ricketts or any of the other members, listed in your *little t*. Next Excom meeting is January 24.

Locksmith

Continued from Page Two

do need a certain amount of self discipline to maintain a workable system. We do not need rules telling us how we must act, or an organization to control us. Power to the students!

Chuck Nichols,
Dabney O.C.

It's True-- Dormammu Eats It!

by David Miller

"What's happened? Are we moving? Where are we going?" asked Garble Tom Headweak, rushing back into the control room. One of the televisions, if that was what it was, had a diagram of concentric circles with a line cutting across several of them. Darwin Millstone looked at it, and said, "At the moment we're just beyond the orbit of Jupiter. Hey, Al, go close to Saturn. Ricener and Feebly want to take some pictures." Turning back to Garble Tom he said, "We're in kind of a hurry because we're running off the emergency generators in the steam plant, and they burn diesel fuel, and all the air we have is what's trapped under the field bubble. Also, it has come to my mind that Sergeant Wildly isn't going to be too pleased with the situation, even if we do put the Institute back without breaking anything. I know the Air Force wasn't happy with us, even though we didn't borrow their SR-71 for very long. They talked a lot about Russians, so I told them the only Russian we had was Noseycough, and he was harmless. I'm sorry to say he proved he wasn't by putting the Air Force men in the shower, but they decided he wasn't the kind of menace they were worried about. Never mind that now, we're coming to the temple of Apollo Disgruntulus."

"What?" It certainly looked like a mammoth Greek temple in the sky, with a colossal statue of the god of music standing before it holding an electric guitar at arm's length and looking disgruntled.

"You have to understand that Apollo is 72 feet tall, and strong in proportion. So in order to make a guitar big enough and strong enough for him, well, I'm sure you've heard of steel guitars, and that one really is. It's 48 feet long, made of quarter-inch Cor-Ten plate, and the strings are half-inch re-bar. It would produce infrasonic frequencies if it worked, but it doesn't work."

Someone else in the control room, who seemed to be called "Schlepper," said, "The priests in that temple are always *really* disagreeable. That's why they call it the surly temple."

Just then, the statue looked around, and saw them flying by, and flung the guitar at them. Al looked very unhappy, but he twiddled a lot of controls in a great hurry, and the guitar flew past, missing the protective bubble field by what looked like no more than inches. "You didn't tell me it was the real Apollo," said Al reproachfully.

"Yes, you should Apollo-gize," said Schlepper.

"Well, I'm sorry," said Darwin Millstone, "I thought it was just a statue, too." Garble Tom Headweak was beginning to wonder if this pandemonium shadow show had been created by some bizarre hookup of television sets and video tape. Darwin Millstone was meanwhile saying, "Looks like that little evasive maneuver blew a fuse on this. I hope that's all that happened. Humphly will kill me if any of this stuff gets broken. All we need now is for Surtur the Fire Demon to throw an asteroid at us."

"You mean like that?" said Al. The being on the screen certainly looked like a fire demon, being covered with fire, and having an asteroid in its hand, which it proceeded to throw.

"Oh, fine. How far away is that?"

"Several miles. We have maximum magnification on that screen. I think we can dodge it." At that moment the asteroid was soundlessly but spectacularly smashed by the speeding guitar.

"Well, that takes care of that," said Darwin Millstone. "Now, where are we?" He typed something on the computer keyboard. In a moment one of the screens lit up with a new set of lines and circles. "Hmm. With all that running around, we seem to have gotten around on the other side of the sun from Saturn. I guess we won't be getting any pictures tonight, we've got to be going back. This has turned out to be a slightly wilder ride than I anticipated."

Nothing happened for several minutes. Then Al said, "Mr. Millstone, what is *that* supposed to be?"

"I don't know, Captain Kirk, I - Gaaaah. Mr. Headweak, does it look to you as if there is someone in a furtrimmed jumpsuit whose head looks like a burning marshmallow walking through space somewhat faster than we are moving?" It certainly looked like that to Garble Tom. "Then we are being attacked by the Dread Dormammu. As he doesn't even belong in this universe, I doubt if anything so merely physical as a whirlcrazy field will stop him. We might as well go meet him and see what is on his mind." When they got to the door of Looseleaf House the Dread Dormammu was already striding up the walk. "Hail the Dread Dormammu."

"How did he know we were here?" whispered Garble Tom to Schlepper.

The Dread Dormammu heard him and replied, "Aspects of the axial nexus are under my vision and control," in an evil, crackling voice like a hot breath from a

Continued on Page Eight

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Fencing

Foil Team Foiled; Brin Skins His Teeth

by Errol Brynne

After a very successful meet against Cal State LA and LA Valley last December, the Caltech Fencing Team went up to UC Santa Barbara last weekend to have it out with UCSB and Cal State Northridge.

Although it had been expected that the Northridge team would be strong, no one on the team expected it to be completely invincible. By the end of the afternoon the Tech Swordsmen had found out better. Not a single individual bout out of the nine each in epee, saber, and men and women's foil was won by Caltech against the powerful CSUN teams.

Faring better with UCSB only by a differential, the Caltech women won two victories; one each by Janet Wainwright and Marie Beall. This made their loss to UCSB a 2-7 drowning.

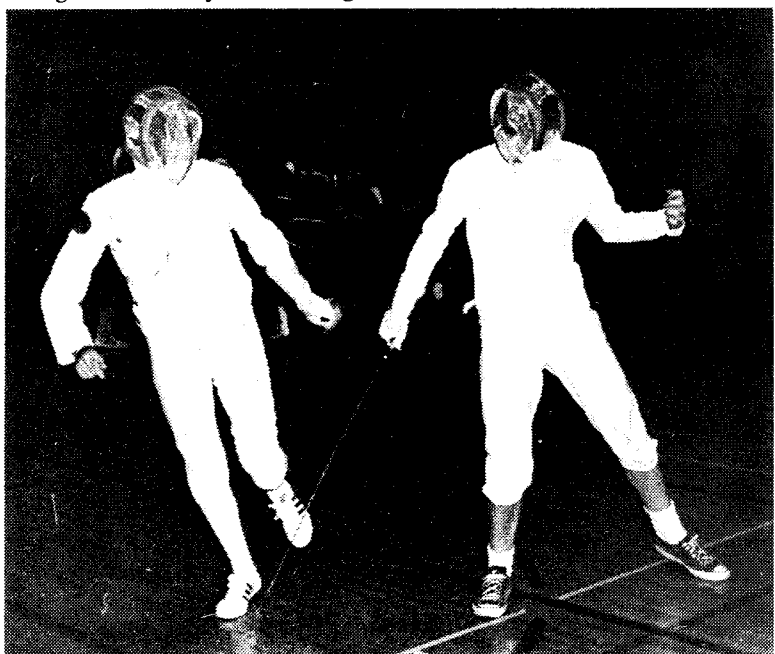
Team Captain Larry November let out a well remembered blood-curdling shriek about three in the afternoon and frightened his opponent into giving up the only win the foil team was able to glean all day. This bright

moment made their bout with UCSB a one to eight "moral victory".

The promising novice epee team made a brave but futile attempt against a much more experienced team from UCSB. Said their coach, "It was like sending puppy dogs against full grown wolverines!" Steve Gillet "almost" won three of his bouts.

The only bright point of the day was a seven to two victory by the Caltech Saber team over UCSB. Observing November's winning technique, the "toad choppers" screamed and hacked their way to their third win this year. Since Northridge, the highest rated school in the division, is the only team to have defeated them, this year's saber team has a good chance of coming in second and going to the Western Championships if things continue to go well.

Dave Brin won all three of his bouts in skin-of-the-teeth decisions. Saber team captain Darrell Peterson won two victories and led the team in points. Mark Puryear also won two out of three bouts.



TWO CALTECH FENCERS (guess who) tread softly on little cats' feet as basketballers from Matador College practice quietly in background. Photo by R.F.

Wrestlers Win First SCIAC Meet; Redlands Is Sick

by H. P. Schnurrd

Four Redlands wrestlers called in sick Tuesday, and pins by John Baker and Vince Fratello combined to give Tech a 33-18 victory in wrestling.

Ken Walker, who appeared a bit emaciated after battling to lower his weight to 142, outclassed his opponent and won by a decision.

Baker's victory brought his record for dual meets to 7-0. Also of note concerning Tuesday's match is that 40% of the opponents were "sick" just when two injured wrestlers returned to action.

Swimmers Take First Big Win In Early Season

by I. M. Wett

The Caltech swimming team cruised to an easy 1-0 victory over Whittier College last Friday, evening their season record at 1-1. The biggest winners were the Caltech Torpedoes, who were able to work out that afternoon instead of having to watch the Techers swim in a meet.

Tomorrow afternoon Occidental's strong team will be at Tech for a meet at 4:00. Coach Lawlor Reck is so certain of a win over Oxy that he is not even giving his swimmers a day off this afternoon!

Garble Tom (cont.)

Continued from Page Seven

wood stove. "You shall take me to Zdrubshnk Vlygg, that I may unblock the continuum portals."

"Well, fine, but you'll have to tell us how to get there," said Darwin Millstone.

"The first transinfractional nexus node is such an obvious sky-mark..."

"That we can't see it at all, or at least don't call it by that name. Would you mind waiting a moment, though? This sounds like it might be a long trip, and I want to go into the kitchen and get some coffee, and a sandwich or something." This seemed like a good idea to Garble Tom, although it seemed a little strange to be thinking of food at a time like this. Schleppey let them into the kitchen with a key he had, and then Darwin Millstone turned on the coffeemaker and took everything out of the refrigerators, including the salad dressing, looking for sandwich fixings. Once he had everything he was looking for, he uncouthly left everything sitting around on counters and carts. The Dread Dormammu meanwhile launched into a long discussion of where he was going, and what he intended to do, which was almost totally incomprehensible, and suggested rather confused and contradictory notions of time, space, energy, and other basic things. Garble Tom Headweak was busy wishing he knew a spell or incantation for exorcism. As a minister he should certainly be able to cast out this loathsome whatever-it-was. However, as he had never expected

the problem to arise, he wasn't prepared for it at all. Darwin Millstone was doing a good job of pretending to understand Dormammu's tirade, so the apparition followed him around the kitchen. Suddenly, as they passed the cart on which the salad dressings had been left, there was a sudden Shflurtzasp! as the Italian dressing grabbed the Dread Dormammu, quenching his head, which caused him to crumple to the floor. Millstone saluted the empty bowl, saying "Alas, noble Italian dressing! It gave its life for the sake of humanity!" Schleppey looked disgusted at this, and went to tell Al he could land.

Garble Tom looked at Darwin Millstone, and said, "You purposely let the Italian dressing kill this... this..." and then he stopped, seeing that the body was no longer there.

"You can't kill Dormammu," said Darwin Millstone, "The best you can do is get rid of him for a while. Like cockroaches, he always comes back. Ah, we've landed. I'm sorry the trip was a little wilder than we planned, but that's what happened. I'll tell you the next time we make a test flight, if you're interested."

"Well, I certainly am, but I have already made plans to visit the Matador College archeological expeditions over the next few months, so I'll be traveling all over the world." As they walked through the courtyard, Garble Tom noticed a large piece of plastic over one of the windows, almost like a rear-projection screen. It might have been over the window he had looked out of. "What's that?"

"I don't know. Something left over from Interhouse, maybe." He had absentmindedly brought a bowl of vegetables from the kitchen. "Cheer up, it's the holiday season." He spilled a few vegetables on the ground. "Let there be peas on earth."

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7:30 p.m.	Wrestling	Pomona-Pitzer	Away
Saturday, January 20			
6:30 p.m.	JV Basketball	Claremont-Mudd	Home
8:15 p.m.	Varsity Basketball	Claremont-Mudd	Home
Wednesday, January 24			
6:30 p.m.	JV Basketball	Occidental	Home
8:15 p.m.	Varsity Basketball	Occidental	Home
Friday, January 26			
4:00 p.m.	Swimming	Claremont-Mudd	Away
7:30 p.m.	Wrestling	Cal State LA	Home
Saturday, January 27			
6:30 p.m.	JV Basketball	Southern California College	Home
8:15 p.m.	Varsity Basketball	Southern California College	Home
10:30 p.m.	Pizza	Roma Gardens	

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