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The CALIFORNIA Tech

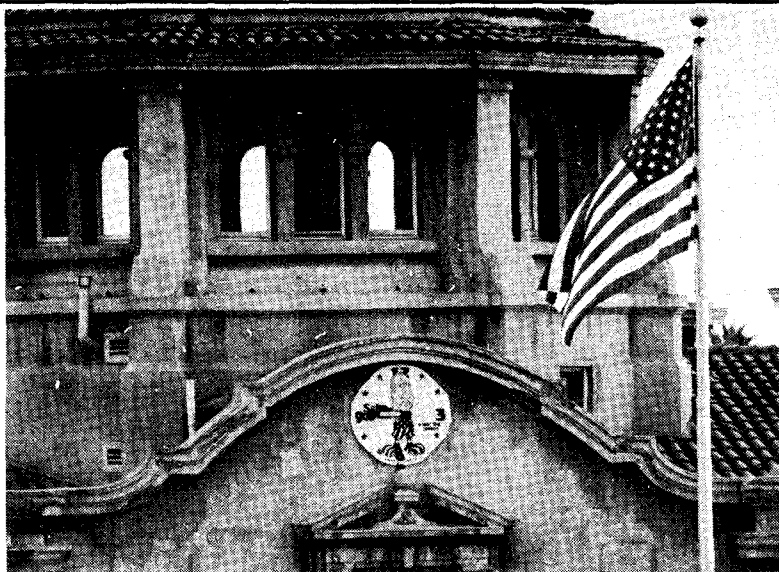
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Buy A Tank

Volume LXXII

Pasadena, California, Thursday, October 29, 1970

Number 6



Our great white father Spiro - a veritable bastion for Truth, Justice, and The American Way. (Who says Techers are apathetic?)
—Photo by Ctein

Defines Pollution

Cook Olive Talk

by Ira Moskatel

Marlow Cook, Republican Senator from Kentucky, spoke Friday to a crowd gathered on Winnett Plaza. Topic of the noon speech was the pollution of the environment.

In a speech obviously prepared for a meeting in San Diego the day before, Senator Cook defined pollution as being any adverse change in the total environment—ecological, economic, and political.

Following the noon's prepared remarks, the Junior Senator from

Kentucky opened the floor to questions. Later in a seminar not open to the press, Cook answered questions about the practical operation of the United States Senate.

Senator Cook has been a member of the Senate since his appointment to fill the vacancy left by Thruston Morton three years ago. Cook's term expires in 1975. Before his election to Congress, the Senator was a judge. He supported Clement Haynesworth, Nixon's first choice to fill the Supreme Court vacancy. He voted against G. Harold Carswell.

Cook does not convey the impression of an establishment politician. He is one of ten senators (Republican) who are supporting Charles Goodell (R., N.Y.) in his bid for reelection. Goodell has been blasted as an opportunist by Agnew, for switching to more liberal views.

"Zap Pit"

by Peter Beckman

Prof. Arden L. Albee added the new term "zap pit" to the Caltech vocabulary during his lecture on "Lunar Rocks-One Year of Study" Monday night. He explained to the near-capacity crowd in Beckman Auditorium that "zap pit" was a term invented by the Lunatics in geology to describe the tiny craters in Lunar rocks that were caused by the collisions of microscopic particles.

From the very first Professor Albee got down to the nitty-gritty of lunar rocks and dirt. He

Tech Environment Meet Presents Facts

by Bill Beranek

The conference on Technological Change and the Human Environment was presented to the Caltech community with quiet, rational voices. Facts about air pollution, heat pollution, water pollution, energy problems, and present systems for regulation were carefully listed. Urban life was examined. Of a more philosophic nature, Dr. Mesthene of Harvard discussed the effect on the goals of man of the change in content of human experience due to technology.

This predictable, but thorough, description of our present environment provided the background for the important question of what is the best environment for man. That the real human biological and psychological needs are unknown was the view of Professor Rene Dubos of Rockefeller University. In the relaxed style of his books, rambling from insight to insight, Dr. Dubos argued for a reorganization of science and technology for goals comparable with human life.

Man is adaptable, but we do not know to what limits. Over the centuries, he has learned to live with and in some sense to enjoy crowded urban life. However, he will not be able to adapt to the noise and chemical pollution. In Dr. Dubos opinion, the attitude of societies today should be more like the self-sufficient Benedictine monasteries of early medieval time. The native environment was changed to benefit the monks but not destroyed.

The opposite viewpoint was eloquently expressed by Dr. Constantino Doxiadis of Athens, Greece in the most entertaining and

most colorful lecture of the conference. Dr. Doxiadis is one of the world's foremost city planners, having designed cities throughout the world, including several renewal projects in cities in the Eastern U.S. He discussed the evolution of today's cities from villages, illustrating the process with essentially a light show. He then pounded home his main theme that we need cities.

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Masters Mansion Near Central Services For Organ Repair

by Philip Massey

Face it, not everybody has a pipe organ in his basement.

Master of Student Housing, Dave Smith, has moved his family to a new house, half a block away on Holliston, directly past the Central Engineering Plant. He has been having the new freshmen over for dessert and a visit.

Commenting on his new location, he pointed out that he had not yet been able to convince the occupants of the Engineering Plant to turn off their lights at night. The lights are extremely bright, and rather annoying. "You can sit out on the back patio and read a newspaper."

The home is only slightly less impressive than a mansion-castle. One of the more singularly interesting objects is a player-organ. The keyboard and console are on the first floor. The pipes and internal workings occupy the major portion of the basement. Descending an iron rung ladder, the freshmen wandered

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by Paul Levin
If you were a Russian Cosmonaut visiting Southern California, what would you want to visit? Disneyland? Yes. The Beaches? Why not? Caltech? Well really now Anyway, that's where NASA took Soviet Cosmonauts Vitali Sevastyanov and (Major General) Andrian Nikolayev Monday morning.

During their two-hour visit they attended a reception/press conference in the Trustees' Room of Millikan Library. After this they were shown the hypersonic wind tunnel in the basement of Guggenheim and the LASERS in Steele's Quantum Electrodynamics Laboratory.

Security was rampant. What with the U.S. Secret Service, the Russian KGB, and Caltech's Campus Security, the group was safe from anything but a determined Techer.

The two astronauts were together on Soyuz 9, one of the longest Soviet space flights. In addition, Nikolayev piloted Vostock 3 in 1962.

As might be expected, Nikolayev and Sevastyanov visited Disneyland. There they were greeted by Mickey Mouse, presented Mickey Mouse watches, and given a simulated flight to the moon at the McDonnell-Douglas exhibit. They

Continued on Page Three

NEWS BRIEFS

Bohr Explains Nucleus

This afternoon at 4:45 p.m. Dr. Aage Bohr, son of Niels Bohr and a distinguished physicist in his own right, will deliver the first C.C. Lauritsen Memorial Lecture in 201 Bridge. The talk is entitled "Concepts of Nuclear Structure."

Dr. Lauritsen, for whom the lectures and Downs-Lauritsen Labs are named, spent 38 years on the Caltech faculty. While here he was a leader in the field of nuclear physics and nuclear astrophysics.

Actor Eric Christmas To Speak at Winnett

This afternoon at 3:00 p.m. in Winnett Center Lounge, Eric Christmas, a member of the Music Center Theater Group, will demonstrate the visual aspects (make-up, etc.) of character portrayal in Shakespearean drama. The word is that he will deal mainly with the characterization of Falstaff.

Caltech Newman Club Schedules Meetings

The Newman Club holds a folk Mass on the second and fourth Sunday of each month in Winnett Center at 7:00 p.m. On alternate Sundays Mass with guitar accompaniment is celebrated at St. Phillips (151 S. Hill). The Masses are followed by short business meetings and social gatherings.

The Tech Will Come In the Fullness of Time

Unless you're an undergraduate, you're probably not reading this until Friday, or Monday, or later. It's unfortunate that half of the announced events are gone by that time, but we can't help it. The entire Tech staff couldn't distribute the paper on time. We will try to announce these items a week in advance, but we usually don't have that much warning.

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EDITORIAL

People Who Still Have Faith

It was learned yesterday that Caltech has received \$650,000 from Mr. Clarence L. Johnson and his wife Althea to establish a chair for applied aeronautics.

Mr. Johnson, currently Senior Vice-President of Lockheed Aircraft Corp., was formerly in charge of Lockheed's "skunkworks," where many of America's exotic military aircraft have been produced. He received his B.S. and M.S. from the University of Michigan, and was named a Distinguished Alumni of that school. In addition, he has received honorary doctorates from UCLA, USC, and his alma mater.

Such generosity from people not directly associated with Caltech is truly amazing, for it shows that in spite of student unrest (or at least the publicity about it), there are still people who have faith in our education system and who are willing to do something about it.

—Paul A. Levin
—Ira D. Moskatel
—Philip M. Neches

Throop Beat

Parents' Day May Change

by millikan troll

Parents and other relatives of 126 out of 220 of the freshmen turned out for Parents' Day, to be greeted by a likeness of a Spiro Agnew watch atop Throop. Dr. Wood informs us that nearly 300 attended the day's festivities, which sets some sort of record (last year's attendance was about 200).

With the event hardly over, the administration's thoughts have turned to what new and unusual could be done with Parents' Day. The trend seems to be away from formalized speech-giving by deans and other such people in Beckman, a practice branded "stuffy" even by some of the participants.

Snowed Parents

Next Parents' Day might well involve short research seminars similar to those given during New Student Orientation this year, if suggestions currently floating around come to pass. Several people have mentioned serving a buffet lunch for students, parents, and faculty, instead of giving the parents a rather atypical "student" lunch in the Athenaeum.

The idea of holding Parents' Day on a Friday, so that parents could attend classes with their students, quickly ran afoul of the real world work week. However, the notion of making Parents' Day more representative of both the lives and concerns of freshmen gains momentum.

State Scholars

Dr. Peter Miller reminds California state residents that their chances of receiving scholarships approach epsilon if they do not apply for California State Scholarships first. Also, a new formula for computing standings in the competition for California State Scholarships has been instituted. SAT and GPA count equally. Total score = SAT-Verbal + SAT-Math + 400*GPA. The maximum possible is 3200 points.

Freshmen will use eleventh and twelfth grade GPA's. College sophomores with Pass-Fail freshman years (meaning us) will have their SAT scores doubled and no GPA used (although this is still somewhat tentative). Juniors will use sophomore year GPA.

Questions should be directed to the Admissions Office. You now have the word.

Millikan Award Dinner

According to some official source, the source of which I cannot remember, the Millikan Award is given when deemed appropriate to an outstanding individual "who has made great contributions to the national welfare through use or encouragement of scientific, engineering, or other scholarly pursuits." The second such award will be presented to former Caltech president Lee A. DuBridge, recently retired science advisor to President Nixon.

A dinner in honor of the event will be held November 24 at the Century Plaza Hotel. (Incidentally, the first Millikan Award went to John W. Gardner, Secretary of HEW under President Johnson, educator, author, etc.).

Top of the Week

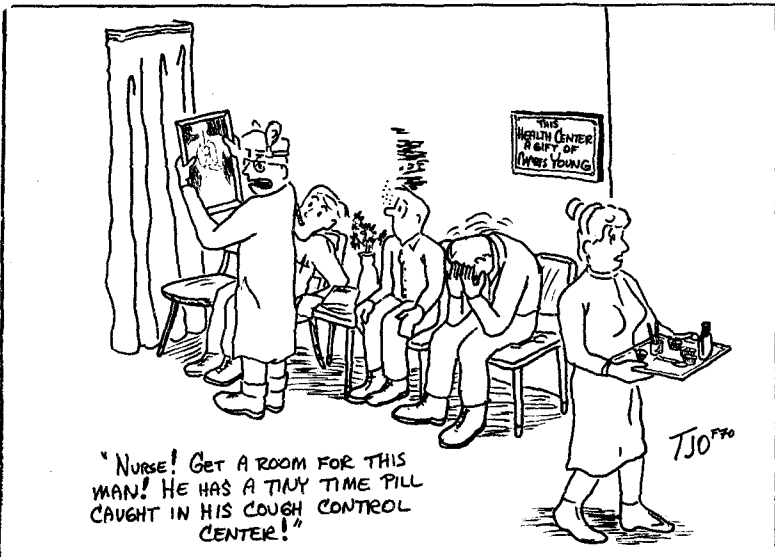
Caltech and the RAND Corporation now sponsor the Southern California Arms Control and Foreign Policy Seminar under a \$285,000 grant from the Ford Foundation. The founders include Drs. Brown, Elliot, and Gell-Mann from Caltech. ... We have yet to hear from Washington regarding the recent redecoration of Throop. ...

The interpreter for the two Soviet cosmonauts who visited campus Monday accidentally called one of your faithful editors "Professor Yariv." Said editor, however, forgot how to blush *parusskie*. ... The Great Pumpkin is coming!

Physics Curriculum

Dissatisfaction with the current

Continued on Page Seven



The Caltech Forum

An interchange of views on any and all topics of interest.

EDITOR'S NOTE — Due to a paste-up error in last week's issue, the by-line was left off the satirical report on Kent State in these columns. The article was written by Morgan Kousser. Our apologies both to him and to our readers.

The Case Against Grading at Caltech

by Elliot Tarabour

The time has come for some serious discussion on the possibility of eliminating grades entirely from the academic environment here at Caltech. There appears to be quite a strong case for such action.

What purpose do grades serve? It is apparent that they exist to differentiate between the performance of students. Now for a moment let us look at how this concept works on the minds of students. It is obviously a cause for great anxiety for the student. He realizes that if his performance is to be measured against other students then he is in competition with them. Therefore, much of his time which he could spend pursuing varied academic and intellectual

areas is actually spent maximizing his G.P.A.

Many students (especially in required courses outside their major) just learn the material specifically for the purpose of getting a grade and then forget it as soon as they learn it. How many times have we all heard "Boy, am I glad I got that course OUT OF THE WAY!" This is what I consider extremely anti-intellectual and creates an attitude of antagonism toward education rather than enjoyment of it.

We all realize that learning can be one of the greatest pleasures in life. It's bad enough that our high schools almost destroy this intellectual curiosity. Let's not kill it off for good.

Haagen-Smit Replies to Lehmann Letter on Proposition 18

Dear Mr. Lehmann:

The Institute is a collection of individualists and it should remain that way. If some of the members want to form an action group that is their business but I would not

like to see the Institute as a whole commit me to an opinion.

By the way, I am for Proposition 18 and was able to move the State Air Resources Board to support the proposition. The Air Resources Board is an organization specifically appointed for action in the field of pollution control and it should take a stand on legislative matters. This is the big difference.

Sincerely yours,
A. J. Haagen-Smit
Professor of Bio-chemistry
Chairman, Air Resources Board

Sorkin Says GET OUT NOW; March Saturday

by Rafael Sorkin

Nixon, like Johnson before him, is a liar. In Cambodia, Kent and Jackson State we saw examples of what he would be doing now had he not been restrained by the nationwide mass demonstrations and student strikes of last May.

But are we out of Cambodia as Nixon claims? No! It is an open secret that our planes carry out massive strikes in support of the Lon Nol government. And if we are not out of Cambodia we are not getting out of Viet Nam. With his "Vietnamization" and "cease-fire" on the basis of presently "contolled" territory (since the Thieu-Hy regime officially claims over two-thirds of South Vietnam as "c-ontrolled territory," this proposal amounts to another demand for

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Friday, Nov. 6

Barbarella

ASCIT of Seita**BOD To Visit Trustees Springs Meeting**

by Alex Seita

ASCIT President Bob Fisher announced the selection of undergraduate representatives to the Trustees National Meeting in Palm Springs on October 31. Chosen by Fisher and Guibas to represent ASCIT were Marc Aaronson, Tom Carroll, Bob Fisher, Leonidas Guibas, and Price Walker. Two objectives of the representatives will be to describe their viewpoints regarding what Caltech is presently like and what Caltech should be like in the future.

Freedoms & Responsibilities

Leonidas Guibas expressed his opinion that ASCIT has an obligation to inform students of their freedoms and responsibilities apropos college. He suggested to the Board that they provide \$200, to be matched with \$200 from the administration, in order to purchase 800 copies of a booklet entitled *Freedoms and Responsibilities of Students in College*. Published by the American Civil Liberties Union, this booklet contains information regarding a student's legal rights and reviews past court cases. The Board, though leaning toward the purchase of a few copies, will consider the matter further.

The Social Side

The Board learned that outside funds for the ASCIT Executive Social Committee will soon be forthcoming. Along the line of entertainment, some of the faculty, who often receive complimentary tickets to shows, movies, etc., will

give their unused tickets to students via Ned Hale, secretary to Dean Huttenback. Also, from the office of the Master of Student Houses, Mrs. Muriel Williams gives word that she will soon provide information about other schools' activities, entertainment at places such as the Music Center or Pasadena Civic, and random social news. She contemplates the use of a strategically located bulletin board to spread the word. The Interhouse Committee has decided that the Interhouse Dance will again be held this year. All of the houses will contribute to the Interhouse by providing exhibits, dances, or other productions that all of the students can enjoy. ASCIT has allocated \$400 in the Executive Social Committee expressly for the Interhouse.

ASCIT Food Service Committee

Doug Duncan (Page), James Kitcham (Dabney), and Terry LaGrone (Page) were appointed to comprise the Food Service Committee which will evaluate other schools' food services in order to find ways to improve ours. A budget of \$100 was appropriated to finance traveling and dining expenses for the committee as they travel to at least 5 schools in the Los Angeles area.

Announcements

Unless a research project is

proposed soon, the summer ASCIT Research Project for 1971 will not exist. The deadline for proposing a project to various foundations is around the middle of December which leaves only a month and a half for an ambitious student. Available in the basement of Culbertson, 1970 ARP secretary Saralee Larson is ready to assist anyone who needs help in typing or preparing a proposal.

After being assured of \$50 each from the IHC and the Alumni Office, The Mudeo will ready for production soon after midterms. By a unanimous vote, Greg Sharp was placed on the Parking Ticket Court as one of the student representatives.

As reported in last week's article, Terry LaGrone is considering proposing a By-Laws change to discontinue ASCIT subsidies to the Athletic Department. However, he'll obtain more student opinion before proposing a change.

At the close of the meeting, some members of the Board indicated a weariness in having weekly meetings. However, it was noticed that such frequent meetings are required under the ASCIT By-laws (that's life).

The next meeting of the ASCIT B.O.D. will be held at 7:30 p.m. Thursday, October 29, in Winnett Clubroom II.

Malcolm Handte**Rousselot Is Atypical**

by Malcolm Handte

To the amazement, and in some cases chagrin, of liberal students and faculty members who heard him speak on the 19th, Congressman John Rousselot turned out to be something other than what they had thought was the typical John Birch Society member. Attired in a dark green business suit (sorry, no white hood) he was not once heard to utter the phrase "dirty-commie-hippy-jew-faggot." On issue after issue his opinions were at least reasonable and in some cases laudable.

On the other hand, Rousselot did, somewhat predictably, accuse the Russians of wanting to bury us (which was ironic considering that the Chinese now accuse the Russians of deviating from the Marxist-Leninist doctrine of world domination and of seeking to "coexist with decadent Western imperialism"). He also identified communists in general as being at least partially responsible for violent confrontation within this country, stating flatly that the Black Panthers receive financial support from communist organizations.

Befitting a complex situation, Rousselot's views on the Vietnam War are difficult to place within any one of the usual political pigeon-

holes (Right, Left, Conservative, Democratic, etc.). Although he regards the war to be basically moral (the United States defending a small country against aggression, at that country's invitation) he nevertheless considers the war to be both ill advised for military and political reasons (he cited MacArthur's warning against involvement in Asian land wars) and illegal because it began with so-called "executive commitments" which were made without the consent of Congress. In his speech Rousselot stated that during his earlier term in Congress (1960-1962) he voted against the appropriation bills for the first major buildup of U.S. forces in Vietnam.

Against this background Rousselot nevertheless expressed support for the Cambodian incursion, which he described as being tactically expedient and necessary for the protection of American lives. On the other hand, he found immediate withdrawal (which it seems would also protect American lives) unsatisfactory because the Vietnamese are at this time unable to defend themselves without American aid.

During the afternoon Drop-In Seminar, Professor John Benton rather gently accused the Congressman of moving toward the center in an effort to attract votes. While it is entirely possible that Dr. Benton is correct it should be noted that many of the fundamental beliefs of the Right are shared, curiously enough, by the New Left.

Rousselot is opposed to the draft on the basis that it is inconsistent with the idea of individual freedom. Furthermore, he advocates the release of persons now held in jail for refusing induction. He considers such people to be basically responsible citizens who are doing their best to get an unjust law changed.

He favors the development of the SST, but not without proper control of atmospheric and auditory pollution, nor at public expense. In addition, Rousselot urged that the federal government divest itself of its business operations, which the congressman described as being responsible for deficits of forty to fifty billion dollars per year (detailed figures available from his office).

Other reforms supported by Rousselot include increasing congress' control over the military and the CIA, modifying the seniority system to allow competent younger men to serve as committee chairmen, and eliminating farm subsidies which keep food prices artificially high by paying farmers to produce nothing.

Rousselot was defensive on the subject of crime control. He supported the concept of no-knock entry, but insisted that it can only be used if a judge (who must issue a warrant specifically allowing no-knock entry) feels that evidence might be destroyed by forewarned occupants of a room or building.

One problem that has occupied a good deal of Rousselot's time is tax reform. He feels that even though the steeply graduated income tax scale puts an unfair burden on those in higher income brackets, the great

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POSTERS

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Peterson on the Draft**What to Do If You Are Not II-S**

by Mark Peterson

If you are not making normal progress in school or if you have stayed in school longer than the time in which you were supposed to graduate, you are not eligible for a 2S student deferment. Nevertheless, you should not ignore your draft status under the assumption that there is nothing you can or need do.

There are two ways to prevent your induction even though you have lost your 2S. First, if you have never had a 1S(C) deferment, you cannot be drafted as long as you are a full time student and have not received your bachelors degree. If

you are given an order to report for induction, that order must be cancelled and you must be given a 1S(C) deferment. There are several difficulties with the 1S(C) deferment, since it can be given to you only if you have been ordered for induction, and you can be given a 1S(C) deferment only once, for at most one year. You have little control over when you will be given an order to report for induction so that you must be careful to stay in school continuously. If you are given an induction order when you are not in school, you can not be given a 1S(C). Also, since you can have a 1S(C) only once, you may wish to save the deferment for later use.

Appeal!

The second way to avoid induction is to exercise your appeal rights. If you lose your 2S and are reclassified 1A during 1970 and your lottery number is 195 or less, you should use your right to the draft appeal procedure to prevent your induction. National Defense Director Tarr recently announced that those men who have had a deferment for any part of 1970 and whose lottery number was called this year will be subject to priority induction during the first three months of 1971. This means that there is a very good chance you will be drafted between now and March 31, 1971. You cannot rely on the fact that there will be

low draft calls during the rest of this year, since you will be subject to the draft under next year's high, post-election calls.

The draft appeal procedure consists of a personal appearance with the draft board and an appeal to the state appeal board. You cannot be drafted while you are using that procedure. To start that procedure you should mail a letter to your draft board requesting a personal appearance and an appointment with the government appeal agent. Your letter requesting these must be postmarked within 30 days of the date stamped on your notice of classification that you are 1A. To stretch out the procedure for as long as possible, the letter should be mailed on the 29th or 30th day. The draft appeal procedure will be described in greater detail in a later article.

Cosmonauts

Continued from Page One

were even shown around JPL. What a way to spend a weekend!

Part of the "icing" of the campus tour was when Lisa Anderson, one of Caltech's freshmen, put in her usual appearance. She told them that she hoped to be an astronaut, and while KTLA's camera rolled the Cosmonauts wished her the greatest success for her ambition.

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The Tech



About Town

Pasadena Art Museum Photographs before Surrealism 50 pics, through Dec. 13; the Rowan Collection of Contemporary American Art, Chinese snuff bottles, prints from the Frank Lloyd Wright Collection. **UCLA** "Ceramics, Form and Technique," continues - honoring Prof. Laura Anderson? Selections from the Cordea and Grunwald Graphic Arts Foundations, through November 25. **Occidental College** "Variations," paintings and sculpture by four artists, through Nov. 3. **Cal State Fullerton** Judy Chicago - paintings, sculpture, photos, atmospheres (Breathe man, Breathe!) through November. **Scripps** Potpourri from Scripps collection. A really random gathering, through Nov. 17. **L.A. Art Assn Galleries** Group show, traditional realism, through October 31. **sb, Calif. Museum of Science & Industry** "Paintings with a Beat," "California That Was," "Ideas in Clay," "Pals and Gals," "The Feminine Eye," and "Birds I View." Through Dec. 13. **Downey Art Museum** "Man and Machines" a complicated IBM version of Ken-

ner's "Spirograph." Ice House Chuck Mitchell, Keith Barbour, the Great American Entertainment show. **Immaculate Impulse Coffee-house** poetry, IHC women, food, IHC women, musci, IHC women, and IHC women. **The Lighthouse** features Jimmy Smith and other big names. **Shelley's Manne-Hole Zoot Sims**, Al Cohn and John Klenmer opening on October 25. **Troubadour** Gordon Lightfoot(very heavy), Dee Higgins and John Denver. **Westward Ho** offers the scintillating Bill Williams Trio. Go Westward young man! **Whisky A-Go-Go** The ever popular Mungo Jerry. **The Playboy Club** Marlena Shaw, Gabe Kaplan in the Playroom, with Vic Ceasar and the Third Eye in the Living Room. **Beckman Auditorium** with: **Gilbert D. McCann** lectures on "Science Through a Fly's Eye" November 2. Fists in the Pocket first run flick from the Cannes Festival, November 7. William T. Jones "Science and the Arts" November 9. Dr. Jekyll and Mr. Hyde; Cat and the Canary silent films November 10. Virtuosi Di Roma noted Italian Chamber Music Ensemble, November 13. Baroness Jane Godall "My Life Amongst the Wild Chimpanzees," November 14. Karl Kohn second in the Coleman Chamber Music Association Series, November 15. **Donte's** Would you believe: The Willie Bobo Octet, Bob Jung - The Big Band, the Walter Bishop, Jr., and the Bud Shank Quintet. **Century Plaza** Dick Jensen, Julie London, the powerful Billy Eckstine. **Company Theatre** "Children of the Kingdom," "The Emergence" and "The James Joyce Memorial Liquid Theatre." Avant garde theater at its most vigorous. **Ivar Theater** "Ceremonies in Dark Old Men."

-RWM

Third Wing View of Proposition 18

Continued from Page Two
manufacturers. The problem with this is, the cost would be merely passed on to the consumers.

Basically, almost everyone has finally admitted that air pollution has to be abated. The money, though, has to come from somewhere. If (and again I say "if") mass transit is to be a reality in California, the money for that, too, must come from somewhere. The idea behind Proposition 18 is that the cost should be distributed proportionately according to the amount of gasoline used by an individual or company. In the case of pollution, this does seem fair, since photochemical smog is formed largely from automobile exhaust gases.

One basic issue remains concerning Proposition 18, and that is, could the money be better used to build and maintain roads and highways? There is some disagreement over this, since it could form a trend throughout the state. If the proposed highway system projected through 1985 is to be completed, the full amount of the gasoline

taxes is needed. This system includes a finished freeway grid for Los Angeles county that might take some of the strain off of certain overloaded freeways now sinking under the weight of cars. However, it also includes some freeways scheduled on the basis of population trend predictions that never materialized, some of the freeways already eliminated by the state legislature.

Proposition 18 presents the voters of the state of California with a very serious decision. Which is to be more important, ease of travel or ease of breathing? The choice is not all that easy, especially for anyone whose livelihood depends upon travel or trucking. In fairness to those often called the Highway Lobby, they are indeed fighting for their way of life, an must be forgiven for fighting like cornered wolves, for cornered they are. Should Proposition 18 pass, the strength of the Lobby will be diminished, and they will lose money.

Whichever way you feel, vote as often as you are eligible next week.

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Dave Miller

by David Miller

Let's imagine, just to make things interesting, that an alumnus has given the Institute a few million to build the Arthur Deutschland Laboratory of Biochemical Engineering, and that the trustees, in order to save on the price of land, have decided to build it on top of the chemistry and biology complex on the northwest corner of the campus. And let's imagine that in a few months, when nobody thinks it's funny any more to talk about "Deutschland über Alles, Kerckhoff, and Church," somebody discovers a way to produce large quantities of ethodion from cultures of *Octopluvium ethodens*. Ethodion?? Let's say it's odorless, colorless, tasteless, and that unactivated ethodion has no known effect on the human body. But rising from the lungs of anyone who has been given ethodion is activated ethodion - ethodion complexed with a collection of hormones, neurohumors, and such other chemicals as affect one's emotional and psychological state. In a closed room with an ethodion-breather, you will start acting like him.

In Coffee?

So shall we imagine the consequences of putting ethodion into the coffee of the physical plant department workers? Remembering of course that Dr. Haagen-Smit has a gadget which will remove and purify organic chemicals from the atmosphere, so it's not actually necessary to have an ethodion-breather near you.

Would it really come as a great surprise if someday the Tech carried the story of how our 360/75 had been fixed by a customer engineer so that its disk files would work on vinyl as well as magnetic oxide and occasionally returned the lyrics of the Monkees' greatest hits instead of something useful? Or a card reader that only took canasta hands?

Soviet Ethodions

In fact, the idea of collecting ethodion from the atmosphere around certain types of people is far too good an idea to keep at Tech. There is a spirit here which should be disseminated, so let us imagine



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Russians Leave With Strange Gifts

that the cosmonauts were dosed with ethodion from the student houses (it was given to you in the hamburgers at lunch last Thursday), and they get small flasks of certain selected essences to take back to Russia with them.

After they have properly treated their fellow cosmonauts with the same thing they got, we can imagine visits to Moscow: "Yuri, have you ever wondered before how they keep the Kremlin warm in the winter?" "Great Lenin, Gregor! Steam tunnels!" Perplexity in commissars' offices: "Do we have a cosmonaut named Sergei Krakov?" "No." "Well, he just ordered 127 sets of lockpicks from the People's Security Suppliers." Occasional technical misunderstandings: "What do you mean, this stuff wasn't made by Deutsches Eisen-Industrie?" and some disruption of cosmonaut training programs: "Aleksandr, you are to rest before the centrifuge test!" "Not now, I've got eleven flags and the special lit, and it's only the second ball. If the left flipper doesn't stick again, I'm going to get infinite replays."

B&G Ethodion!?

But what of the essence of B&G that the cosmonauts took back with them? That will appear in a moment. Meanwhile, it is worth mentioning that Monty Hall got some ethodion so that the spirit of "Let's Make a Deal" went to Russia, and eventually was found at a Russian-Chinese summit conference: "Okay, Chou, baby, I have in my pocket a treaty which gives back to China everything the Czar took in 1854, including the Sluzhba River. Now you can have that, or the box Alexei is holding over there. You want the box, okay, Alexei, tell him what he got." "He got . . . roller skates! These beautiful skates, made by Soviet Plastics, have inflatable wheels; no more sloshing around in rice paddies all day, sloosh down the terraces on Soviet Plastic Skates, along with everyone else in South China . . . 250 million pairs of skates, and to blow up the wheels, a gas plant! Of course you can do a lot more with this modern, fully automated fac-

tory which will turn out up to 2500 gallons of liquid helium per day, reduces coal tar to methane and has a little gadget on the third floor which makes ice cubes . . . And to power it all, our very own Liquid Carbon Breeder Reactor and thirty metric tons of uranium enriched thorium. Total cash value of your deal, 86,372,946,117 rubles and 32 kopecks f.o.b. Kiev."

"Now, you can take that, you wanna take that? It's either that, or what's behind the door." "I'll take the door." "You're sure? you don't have to." "I'm sure." "Open the door, Alexei! Awwwwwww, you got a zonk. Well, Mr., uh, EX-Minister, you'll be the only man in your concentration camp with a plastic bust of Chairman Mao that glows in the dark and plays 'The East is Red' when you squeeze the nose which is. And thank you for playing."

Salt Ethodion

We can imagine that after awhile the ethodion got into some rather strange places, such as the Strategic Arms Limitation Talks, where a dumpy looking character in a uniform marked KG&B walked over to a wall, muttering "The frammis has to be replaced," and proceeded to beat on the wall with a rake handle until he had broken away the plaster and the little wire things imbedded in it, replaced them, and repaired the wall with a soft, lumpy plaster which left white marks on the clothes of everyone who touched it.

Later that day, one of the Russian diplomats announced at dinner, "It is time for the Page House White Wolf and Troika Peoples' Cooperative to strike again!" So he laid a caviar knife beside his coffee cup, built a ramp of funny-looking red books up to the table level, marched up the ramp and poured vodka in the general direction of his cup, holding the bottle over his head. And as Leonid seemed to be paying more attention to the arms of Tempestina Blastov (*Party* magazine's Comrade of the Month) than to the armament of the United States, a recess for the talks seemed a good idea.

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Postmortems

19 Necromancers Packs
Mind-Jarring Impact

by Jonathan Post

19 Necromancers from Now, edited by Ishmael Reed is a blockbuster. This is true both in the sense of jarring emotional/cerebral impact, and of the iconoclasm of the Black Literature monolithic single-mindedness myth. Eclectic in the extreme, this collection maintains the illusion of unity through the mutual un-whiteness of the Black, Afro-American, Chinese-American, and Indian authors, and by the common core of imaginative power and counter-cultural insight.

Flawed only by the disappointingly sophomoric play *Legacy* by Charles Patterson, the anthology ranges with occasionally asymmetric brilliance through the mileaux of Satire, Fantasy, Theater, Poetry, Realism, and (O! joy!) Miscellany. Frank Chin is Fitzgerald, Updike, and soy sauce; Victor Hernandez Cruz, holographic infancy. Ronald L. Fair vividly scintillates with an admixture of Ghetto, Depression, Childhood, Adventure, and Nostalgia. William Melvin Kelly seems to pack a greater density of invention per word than anyone since Joyce, but I'm uncertain—I am still rereading his 5 page masterpiece *Jest, Like Sam* and have lost count of levels. Calvin Hernton is uncut verbal Acid.

There is the traditional chunk of LeRoi Jones, down-and-out grit by Paul Lofty, Clarence Major's brutal antithesis of Catch-22 flippancy. Ronald J. Pringle attempts a juxtaposition of Strindbergian pseudo-causality, Ionescoid atmosphere, Eliotish symbolism, Ibsenesque message, and Kafkaic purity; he pulls it off thrillingly in *Finger Meal*.

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—JACOB BRACKMAN, Esquire

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by Dan O'Neil



The Critical Ear

Ormandy Does Bolero, Flip Side

Ravel's **BOLERO**; performed by Eugene Ormandy and the Philadelphia Symphony Orchestra; Columbia MS 7673.

If you like "Bolero" you will probably like this version, regardless of the fact that it is somewhat affected by Eugene Ormandy. If you don't like "Bolero," the record is already half lost. The other half is made up of Massenet's "Le Cid" and some dances by Falla. They are sort of a classical flip-side. I'm sure that there are better versions of this group of selections, but if you get it for free, don't turn it down.

EXPRESS YOURSELF; by Charles Wright and the Watts 103rd Street Rhythm Band; Warner Brothers 1864.

The title song of the album was recently released as a single, which is why the album is being reviewed just now, well after the original release date. The album has but seven cuts, most of which follow the general style of the title song, a sort of rhythm and jazz number. The group has expanded somewhat, adding more instruments and versatility. The group is getting smoother, and their writhing is good. I wish the vocals were a little better, but no group is perfect. "Express Yourself" is a nice album, and a good addition to a record collection if you like the group at all.

SUPER ROCK; by various parts of the Columbia stable of rock artists; Columbia g 30121.

This album is Columbia's answer to the Warner Brothers albums of mixtures and to the Whitman's Sampler. "Super Rock" contains a

little from each of the best groups and individuals recording for Columbia, including Santana, Poco, Blood Sweat and Tears, Laura Nyro, and others. It's a double album, four sides and twenty cuts. I liked all but two or three of the twenty songs, which is unusual for a mixed album. This one is really good.

—Nick Smith

Mahler Symphony No. 1 in D, "The Titan", — Columbia Symphony, Bruno Walter — Odyssey Y30047

"The Titan" is not really an appropriate programmatic title for this symphony, especially in the modern sense of "titan." It would fit better with Mahler's Second or Eighth Symphony. However, if by "titan" we infer the characteristics of the mythological characters, we have come much closer to describing the symphony. For the work is much more a combination of

cunning, intelligence, rebelliousness, spirit and strength than an example of strength and power alone.

The symphony is more melodic, in general, than his later symphonies, particularly in the middle two movements. But Mahler never lets the themes get in the way of proper, and in these cases, very unique, development. I've yet to figure out how he gets away with the themes he uses in the third movement, the Funeral March. Yet he does, and impressively, especially the canonical development of the first theme.

Bruno Walter is probably the best interpreter of Mahler. Therefore, disregarding a couple of slight mistakes and one Mahler freak's comment that certain sections were played too slowly, Walter's is probably the best performance of the symphony. However, this album

on the Odyssey label is a bargain copy of the original issue by Columbia (MS 6394), remastered. And if all the copies contain the recording flaws that my copy does, it would be worth your money to get the original, finer recording. But despite the flaws, Mahler and Walter still come through well enough to make the record buy-able.

—E. Gansner

Sweet Apple by the group of the same name Columbia

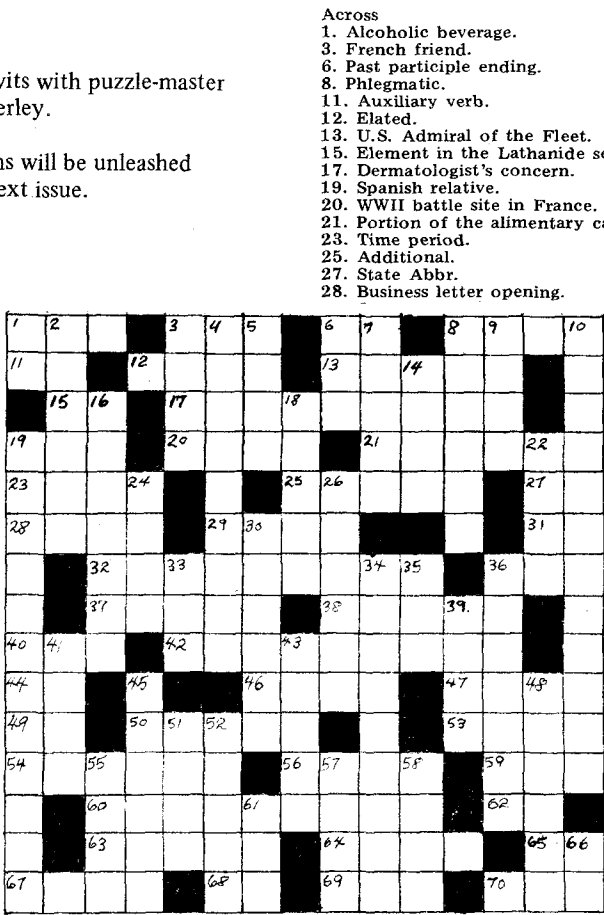
This album is not bad despite its lack of spark which I feel is necessary for a good soul album. It is a bit too "production oriented," but the musicians do have talent. Most cuts are fairly mediocre soul songs with the only outstanding cut being "Sweet Apple Jam," which reminds one very much of Herbie Hancock's "Fat Albert Rotunda."

—Elliot Tarabour

A Crossword Puzzle in the Tech?

Match wits with puzzle-master Glenn Ierley.

Solutions will be unleashed in the next issue.



- Across
1. Alcoholic beverage.
 3. French friend.
 6. Past participle ending.
 8. Phlegmatic.
 11. Auxiliary verb.
 12. Elated.
 13. U.S. Admiral of the Fleet.
 15. Element in the Lanthanide series.
 17. Dermatologist's concern.
 19. Spanish relative.
 20. WWII battle site in France.
 21. Portion of the alimentary canal.
 23. Time period.
 25. Additional.
 27. State Abbr.
 28. Business letter opening.

29. Chinese coin.
31. Blood factor.
32. Puerile.
36. Holy—.
37. South American omnivore.
38. Abrupt recovery.
40. Peregrine.
42. Abatement.
44. Indefinite article.
46. Skills.
47. Total attendance.
49. State Abbr.
50. Future plant seed.
53. Fencing sword.
54. Periodical supervisor.
56. Exclamation of disgust.
59. Total.
60. Admonishment (2 wds.).
62. Diminutive ending.
63. Inactive.
64. Norse mythological figure.
65. Conjunction.
67. Assay.
68. Latin abbr. meaning "That is."
69. Group.
70. Termination.

- Down
1. Blood type.
 2. Wound.
 3. Mountain range in Europe.
 4. Chew.
 5. Icon for one.
 6. Yale student.
 7. Extinction.
 8. Prepares eggs.
 9. Prefix meaning loosening.
 10. With 19-down an explanation for Zeno's paradox (6 wds.).
 14. U.S. tennis pro.
 16. Sec'y of Commerce Stans.
 18. Perch.
 19. See 10-down.
 22. Unit of area.
 24. Nevada city.
 26. Condition requiring slaking.
 30. 37-across for one.
 33. Not near.
 34. State of exhaustion.
 35. See 6-down.
 36. Part of a nerve network.
 39. Theater section.
 41. Girl's name.
 43. See 41-down.
 45. Powerful.
 48. One of German nationality.
 51. — de testa. (It.).
 52. Curare, variation.
 55. Wading bird.
 57. Sky sights.
 58. Crack.
 61. Highway abbr.
 66. Address abbr.

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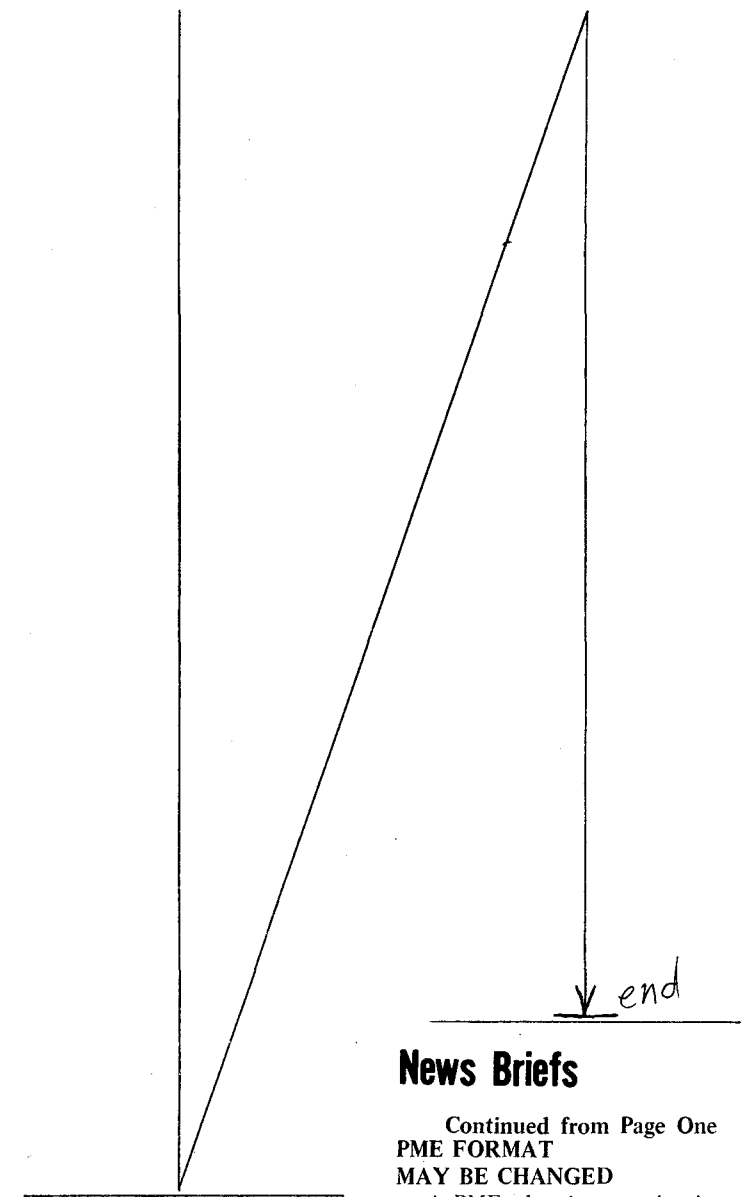
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Movie Review



Master's New House

Continued from Page One

around for more than an hour as the organ played a roll.

The pipes are directed inward towards the house. It would be difficult to predict how many miles the organ could be heard otherwise. Being in the basement while the organ is playing is a rather ... interesting experience.

The evening was a lot of fun. After all, it's not every day that one sees (and hears) a pipe organ.

Rousselot

Continued from Page Three

complexity of tax laws and the numerous loop- holes and exemptions frequently work against the "little man." His solution is to eliminate both by instituting a simple system based on equal or nearly equal rates for all income levels. Eventually he hopes to work toward complete elimination of income taxes.

Rousselot tends strongly towards isolationism in the area of foreign relations. In fact, when he was asked about giving Mainland China a seat in the U.N. he said, "Fine, give them ours."

The point of this rather lengthy exploration of Rousselot's political philosophy is to show that Birchers, or at least this particular one, are not (as it seems is popularly supposed) trying to help rich people get richer by robbing the poor. In fact they are working to establish a system of laws which they honestly believe will treat all citizens equally and fairly while reserving to each the greatest freedom of action which is consistent with the protection of the rights of others.

News Briefs

Continued from Page One

PME FORMAT MAY BE CHANGED

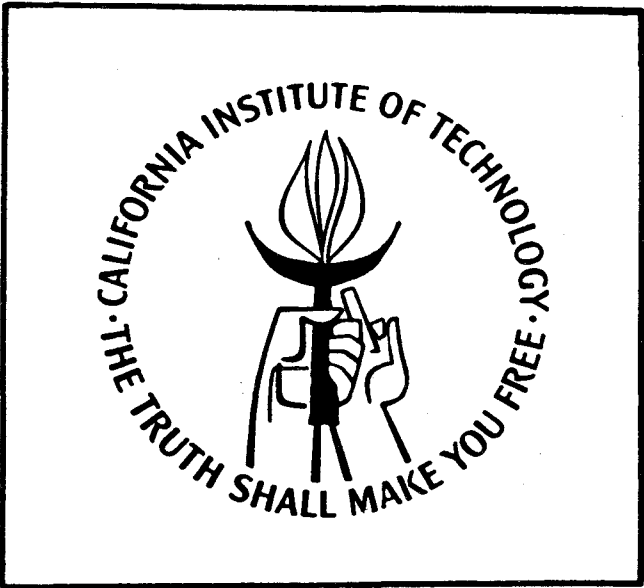
A PME planning meeting is going to be held this coming Tuesday, at 7:30 p.m. in the Y Lounge. The meeting will be especially concerned with a possible change in the PME format. The meeting is open to anyone interested, including freshmen who might not have the vaguest idea what PME stands for.

THIS IS A SHORT BRIEF

The Asian Religions Study Group meets tonight at 8:00 p.m. Check at the Y for the location.

U.S. IMPLICATIONS TO BE DISCUSSED

There will be a meeting of anyone concerned about the recent Canadian situation and the implications it may have for the U.S. tonight at 7:00 p.m. Check at the Y for the location of the meeting.



How about holding a design-a-seal contest? Page House already has an entry!

Levin on Art

Get a New Seal . . . Or Use the Old One

For years Caltech has survived without a reasonable Institute seal. Our present seal is no better than the other two with which it has co-existed or (supposedly) has superseded. For example, why don't the class rings use the present seal? Why wasn't the "official" seal used on the program for the C. C. Lauritsen Memorial Lecture? Why?

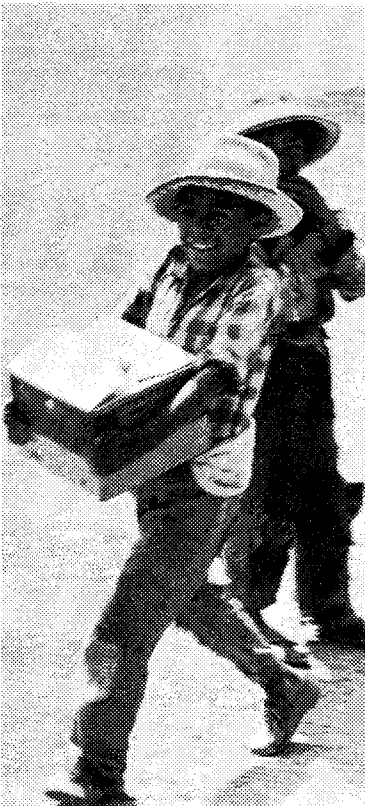
For years Caltech has survived without a reasonable Institute seal. It would really be nice to have a seal. We probably won't get one for a long time; designing a new seal costs money, lots of money, but we can keep on hoping for one.



THERE ARE SMILES AT BOTH ENDS OF UNICEF; "TRICK OR TREAT"



Fred Gluck of Elizabeth, N.J., and his black cat Spooky are among the millions of American children who enjoy Halloween Trick or Treating for UNICEF and the less fortunate youngsters of the developing countries who now smile because of aid from the United Nations Children's Fund.



Young refugees from last spring's Peruvian earthquake smile as they carry UNICEF relief supplies. Trick or Treat funds enable UNICEF to respond promptly to emergencies.

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Luna(tics) Moonstruck by Apollo Paydirt

Continued from Page One

of troylite and one form of apatite show that the moon had no free oxygen or water when the rocks were formed. The rocks have been found to be as old as 4.4 billion years, and the ages of the rocks from Apollo 11 and 12 are quite close to each other although they come from two parts of the moon previously thought to have been quite different in age. Finally the close, but not exact resemblance to earth rocks lends support to the belief that the earth and the moon were created at the same time.

Scrub-A-Dub-Dub

Before the samples were examined, it was necessary to clean them of the microscopic particles of Lunar dust that clung to their surfaces. This was accomplished in different ways depending on how the specimens were to be analyzed: one common method was to wash the specimens in acetone. It was also necessary for the geologists who examined the samples to be absolutely clean since a speck of dirt or dandriff could ruin an

experiment. For this reason the samples were studied in a "clean lab" which could only be entered after certain procedures had been followed.

The Lunar material was examined in many ways. One method of identifying minerals was to photograph thin sections of rock in transmitted, reflected, and cross-polarized light and to identify each mineral by the optical properties it displayed. Another useful instrument in analysis was the electron microprobe which gave a quantitative analysis of the elements present in a point on a specimen only one micron across.

Professor Albee's lecture was illustrated with slides of the lunar rocks and the results of their study. The vivid coloration and hue of some of the samples was exceeded only by the apache scarf worn by geology head Eugene Shoemaker who introduced Professor Albee.

Next week the lecture series will continue with "Science Through a Fly's Eye" by Professor Gilbert McCann.

Environment Conference

Continued from Page One

After his Tuesday night lecture, Dr. Doxiadis spent two hours with students in Fleming Lounge expanding and defending his position. Here, he emphasized the depth of the problem between developed and developing nations. He felt a large part of racial problems were economic and emphasized the ideal city would offer choices to all its citizens. Dr. Doxiadis bid the Flems goodnight with the benediction that people want progress and we are servants of the people.

To summarize, the sense of the conference was that our environment is in bad shape, and getting worse, but not a crisis situation yet.

We can either pause now and reevaluate where we are headed or we can proceed ahead with all deliberate speed, holding faith in technology. The choice is ours.

Cities provide people many more experiences than villages especially in exposing them to others of similar and of different interests. And historically, people have concentrated themselves. The depersonalization for which contemporary American cities are criticized is caused by the invasion of the machine, notably the automobile. The cities Dr. Doxiadis designs are cities for people. Reason, foresight, order, and technology will answer the problems of the coming megalopolis in the United States.

Players of the Week



Freshman John Steubs and Junior Bruce Johnson are this week's Players of the Week. Next game is Sat., Oct. 31, 7:30 p.m. at Pomona. —Photo by Fish

Throop Lives On

Problems Worked Over

Continued from Page Two

physics curriculum can be overheard not just from rooms of freshmen taking quizzes, but also from their graders. Some physics T.A.'s think that there might be a better way, although no formal action is afoot.

Possibilities for revamping the current system include making Physics 2 optional, or at least having two different courses in place of Physics 2, one for physics majors and another for the rest of the world. Also, a one-year course for non-majors and a two-year course for majors has been proposed.

Just keeping you posted.

Object lesson

According to Ken Charles, head of Campus Security, a theft from the Student Houses has been solved by a stroke of good luck. Some students noticed three suspicious off-campus people in one of the rooms in the Student Houses. They drove the intruders out of the

House, but did not notify Campus Security. Fortunately, one of Charles' staff noticed the trio, and apprehended them in possession of a Techer's recently stolen wallet.

Charles reminds members of the Caltech community to notify Campus Security of any suspicious persons hanging around, especially in the Student Houses. (Note: peddlers and solicitors in the Student Houses must have authorization from the Master's Office).

For the Curious

Be it announced once and for all time that (millikan troll) = (phil neches). Now you know.

Plans for informal exchanges of students between other colleges and the Institute advanced another step. The plan passed the Academic Policies Committee, and now goes before the Faculty Board.

Historical note: The first walk-out by American college students occurred in 1655 at Harvard. The issue? Long hair.

Caltech Forum

Continued from Page Two

NLF surrender), he is only once again buying time at home to continue the slaughter abroad. The war will end only when all U.S. forces withdraw, and this will happen only when the pressure of independent action by large masses of Americans forces it to happen.

This weekend we will have two opportunities to maintain this pressure. Friday night Nixon is coming to Anaheim—check local papers for further details.

Saturday there will be a national series of demonstrations to demand Nixon GET OUT NOW! Sponsors of the demonstration include Noam Chomsky and S. E. Luria of M.I.T.; Clergy and Laymen Concerned about Vietnam, Detroit; Chicago SCLC, John T. Williams, Vice President Local 208, Teamsters Union (Los Angeles); ... The L.A. March assembles at noon in Pershing Square (6th and Hill) and proceeds to City Hall for a 2:00 p.m. rally.

If you were to ask Nixon, "If I were to ask you if you are ending the war in Southeast Asia would you say yes?" he would say "Yes." Let's make him into a Truth-Teller in spite of himself.

THE CALTECH FORUM is an interchange of opinions on any topic of interest to the Caltech community. Take advantage of this unique open forum, which reaches more members of the Caltech community faster than any other medium: write an article!

Copy received by Monday at 9 p.m. can run in the Thursday issue. We prefer to have copy typed double-spaced for ease of proof-reading and typesetting.

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REG. CO-OP PRICE

Miracord record changer complete \$140.00 \$76.00

Garrard record changer complete \$53.00 \$30.00

Koss stereo headphones \$25.00 \$13.00

Pro stereo headphones \$50.00 \$25.00

Concord 8 track stereo tape deck \$70.00 \$35.00

12" 3 way speakers, walnut enclosure \$130.00 \$65.00

70% OFF ON TAPE

Scotch lo-noise tape 2400' 10 for \$22; 1800' 10 for \$20; Scotch No. 150 tape 1800' for \$17.

Lifetime guarantee American cassettes: C60 10 for \$7, C90 10 for \$11.

AND MANY OTHER DEALS WE CAN'T LIST BECAUSE OF FAIR TRADE LAWS:
EVERYTHING GUARANTEED!!
COME AND FLIP OUT!!

UNIVERSITY STEREO CO-OP

W. LA CHAPTER
Back door of pink garage at:
3378 S. Overland, LA 34
839-2216

S.F. VALLEY CHAPTER
Garage in alley at rear of:
Ho-Toy's Restaurant at:
4626 Van Nuys Blvd., Van Nuys
981-1731

3 bks. S. of S.M. Fwy.,
Overland exit
1 blk. S. of Ventura Fwy.,
Van Nuys exit

MON-FRI 1-9 P.M., SAT. 10-5, CLOSED SUNDAYS

BRING OUT THE BEAR IN THE OLD MAN



Next time your man goes off hunting or fishing, do Smokey a little favor.


When you cuddle close to say goodbye, whisper softly in your favorite ear: "Remember dear, only you can prevent forest fires."

Advertising created for the public good



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Reg. 3.95

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