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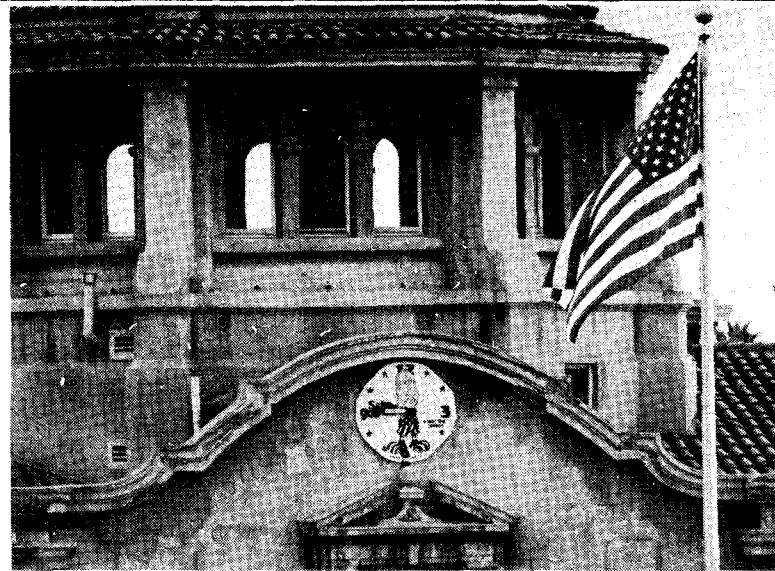
# The CALIFORNIA Tech

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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 Moskate

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

## 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.

Continued on Page Seven

## 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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## NEWS BRIEFS

### Bohr Explains Nucleus

#### 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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#### 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.

Continued on Page Six

### Who's Afraid of Lunar Rocks?

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

explained that NASA called all specimens above a certain size "rock" and those below it "dirt" although most of the specimens, large and small, were made up of the same basic minerals.

#### Looking Into Glass Balls

These samples closely resemble earth's basalts. They were created when a molten silicate mixture crystallized into various minerals. Since some of these minerals rejected certain elements as they formed, these elements were concentrated in portions of the samples. Measurement of the amount

and proportion of certain radioactive elements in these concentrates has been useful in dating the rocks.

Other lunar samples are glass balls and fragments that solidified so rapidly that they couldn't crystallize. These were primarily created by meteorite crashes. Finally, there is breccia, which is made up of welded fragments of lunar dirt.

These samples have given the geologists much information about the moon. The relative abundance

Continued on Page Seven



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 Huttonback. 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

**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-

-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, and 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****Russians Leave With Strange Gifts**

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 *Octopodium 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

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, slosh 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! Awwwww, 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 Tempes-trina 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 unwhiteness 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 milea 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 Kafkac purity; he pulls it off thrillingly in *Finger Meal*.

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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?

## 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. Pereire.

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 Zenos 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. Power-down.

48. One of German nationality.

51. — de testa. (It.).

52. Curare, variation.

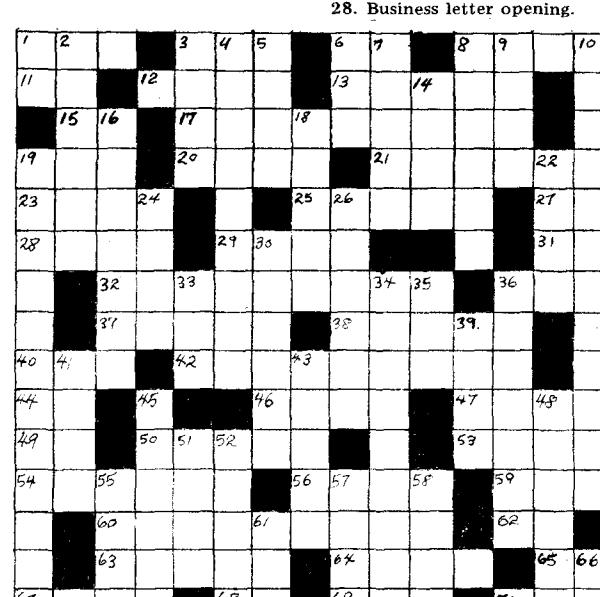
55. Wading bird.

57. Sky sights.

58. Crack.

61. Highway abbr.

66. Address abbr.



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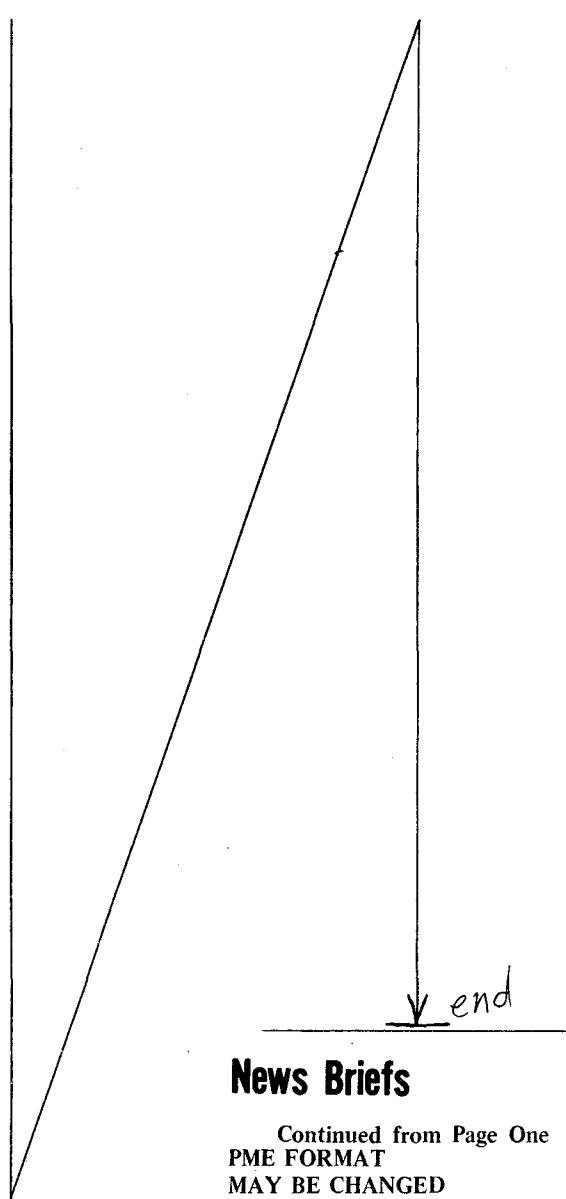
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**Movie Review****News Briefs**

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.

**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.

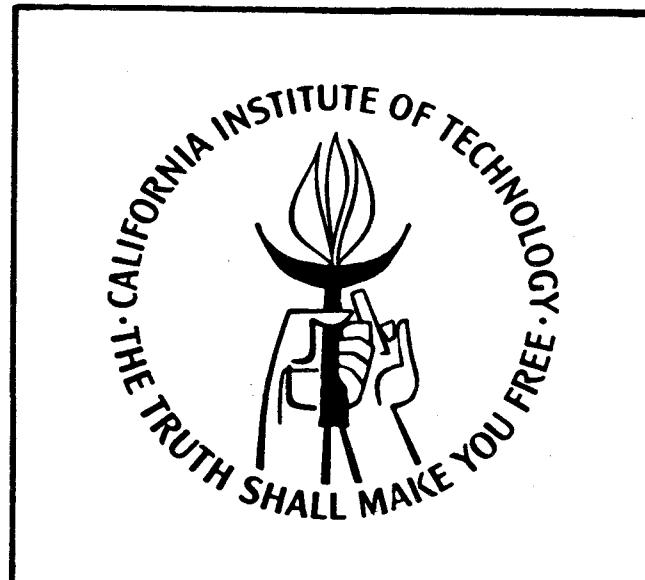
**Rousselot**

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.

**NOTICES**  
 Peace & Freedom Election Night Party. Candidates—Bands—Food—Press. 7:30 p.m.—Nov. 3. Embassy Hotel, 843 So. Grand, Central L.A. \$1 donation.



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

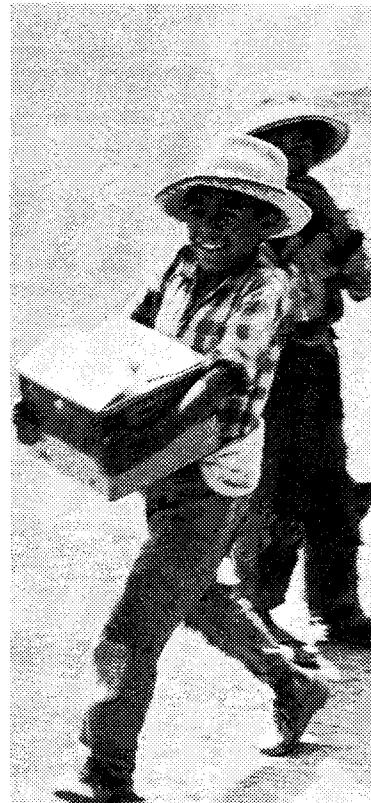
**Levin on Art**  
**Get a New Seal . . .**  
**Or Use the Old One**

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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You, too, can take out ads in the California Tech!!!! \$1.50 per inch plus 20¢ per extra line for Classifieds. Bring ad copy to the Tech office, or phone Caltech extension 2154. O.K.?

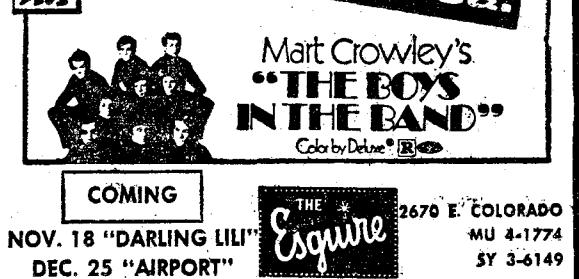
MICK JAGGER IS HORRIFYING, REPELLENT, AND I THINK WE FEEL SOMETHING NEW THAT DRAWS US TO HIM—THE INCREDIBLE STRENGTH AND INSOLENCE WITH WHICH, HIS HAIR LEWDLY SLICKED DOWN, HE SPews OUT HIS BIG NUMBER IN "PERFORMANCE."

... Pauline Kael in *The New Yorker*



Mick Jagger.

And Mick Jagger.

**performance.****Vice. And Versa.**

## Luna(tics) Moonstruck by Apollo Paydirt

### Continued from Page One

of troyleite 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 dandruff 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

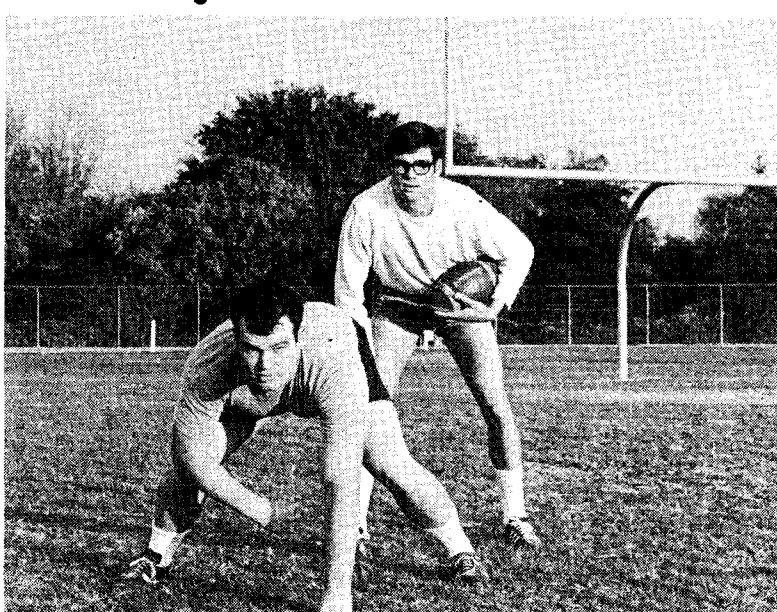
After his Tuesday night lecture, Dr. Doxiadis spent two hours with students in Fleming Lounge expanding and defending his position. Here, he emphasized the depth of the problem between developed and developing nations. He felt a large part of racial problems were economic and emphasized the ideal city 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 de-personalization 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 Teacher'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.

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