Tech Environment Meet Presents Facts

by Bill Beraneck

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 more philosophical nature, Dr. Kenneth Harvard discussed the impact of the goals of man on 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 René Dubos of Rockefeller University. In the colored style of his books, rambling from insight to insight, Dr. Dubos argued for a reorganization of society on more direct goals comparable with human life.

Min 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' view, urban societies today should be more like the self-sufficient beneficent monasteries of early medieval time. The native environment was changed to benefit the monks but not destroy them. The opposite viewpoint was eloquently expressed by Dr. Constantinos Duxiados of Athens, Greece in the most entertaining and colorful lecture of the conference. Dr. Duxiados 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 pounced 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, nobody 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 Mission, directly past the Central Engineering Plant. He has been having the new freshmen over for dinner and a visit.

Commenting on his new location, he pointed out that he had not yet been able to come into contact with the occupants of the Engineering Plant to turn off their lights at night. The lights are extremely bright, and when angered, “You can sit out on the back porch and read a newspaper.”

The house 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.

Continued on Page Six
Parents' Day May Change

by millikan tol.

Parents and other relatives of 126 out of 220 of the freshmen turned out for Parents' Day, as was to be expected, in light of the Arizona 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 form of unusual could be done with Parents' Day. The president's usual speech to the formalized spree-tri-ing-due by geans and other such people in Beckman, a practice branded "un-" even by some of the participants.

Sourred Parents

Next Parents' Day might well involve short research seminars similar to those given during New Student Orientation, if it 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 the day's activities and quickly run away from the real world work week. However, the notion of making Parents' Day more representative of both the lives and concerns of freshmen gains momentaum.

State Scholars

Dr. Peter Miller reminds Californi­ a 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 and 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.

The Case Against Grading at Caltech

by Elliott Taraborre

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

What purpose do grades serve? It appears to me that there is an easy differentiation 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 great source of anxiety for the student. He realizes that if his performance is not up to the mark, he may be up against other students when he is in competition with them. Therefore, much of his time which could be devoted to scholarly pursuits is taken in parodic academic and intellectual activities.

The Third Ring

A Question of Priority

by Nick Smith

Only a few days remain before the midterm exams. It is time to tell students to bear in mind the cost of future blunders, and to avoid the compulsion of becoming specific candidates, since it is the somewhat unfortunate fact that people will elect the kind of officials who are as bad as the majority. I hope that instead of discussing an issue with some merit.

Proposition 18, on the California November ballot, is an amendment to the state constitution. It asserts that 25% of state gasoline taxes for non-road-repairing and maintenance, including work on mass transit and pollution abatement. It would allow the voters of each county to vote to extend or change the state law, or to generate enough state funds which would also be used for those hopefully worthy causes.

The battle lines have been drawn, and the fight is nearly over the last few months, and with quite interesting results. The Auto Club of Southern California has been successfully opposed the measure, on the grounds that less roads could be built if it is passed, and that money should be used for mass transit if the measure was passed. It has long taken the stand of the Auto Club.

The only good mass transit is a dead trans unit. The list of the board of directors in one or more corporations directly benefit­ ing from continuing expansion of Los Angeles and the cars in it. They include two of Caltech's own Trustees, Frederick G. Larkin Jr., board of directors of Getty Oil, Tidewater Oil, and Southern California Edison; (board of directors of Security Pacific National Bank and Southern California Edison) Banks, oil companies, utilities, and land develop­ ment. No information for the Auto Club. The Auto Club News Pictorial, circulation 96,000, contains that the printing of the California Tech) carried a feature article condemning Propo­ nent 18, bringing two major groups of driving the state of California.

Robert Chaou, director of the Los Angeles Air Pollution Control Distri­ t, opposes Proposition 18 for several extenuative reasons. He feels that the cost of air pollution control should be borne by the auto industries. He maintains on Page Four that we all have to get along with what we are given. There are still people who have faith in our education. Columbia is a great institution.
Thursday, October 29, 1970

THE CALIFORNIA TECH

Page Three

ASCT of Seita

BOD To Visit Trustees Springs Meeting

Rousselot Is Atypical

by Alex Seita

ASCT 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 ASCT were Marc Aaronsom, Tom Carroll, Bob Fisher, Leonidas Guibas, and Price Walker. Two objectives of the representatives will be to describe their viewpoint regarding what Caltech is presently like and what it should be like in the future.

Freedoms & Responsibilities

The Trustees have expressed the opinion that ASCT 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 200 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 the booklets, will consider the matter further.

The Social Side

The Student Activities Committee that outside funds for the ASCIT Executive Social Committee will soon be forthcoming. Along with entertainment, some of the faculty, who often receive complimentary tickets to shows, movies, etc., will also be invited to social functions.

HI LIFE
1758 E. Colorado
Good from 12 noon to 3 p.m.
Good from 4 to 7 p.m.
A sandwich and beer for $1.00.
(Your choice of eight sandwiches)
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Russsians Leave With Strange Gifts

by David Miller

Let’s imagine, just to make things interesting, that an alien has given us a few million to build the Arthur Deutschland Laboratory of Biochemical Engineering, and that the technicians, in order to save on the price of land, have decided to build it on top of the chemistry 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 liber Alles, Kessisch, und Church,” somebody discovers a way to produce large quantities of ethylene from coal or captive nuclear enrichment. Ethodions? Let’s say it’s odorless, colorless, tasteless, and if something was invented that had no effect on the human body. But being made from the hogs of anyone who has been given ether is activated ethidion - ethodion connected with a rainbow of hormones, neurotransmitters, and such other chemicals as affect one’s emotional and psychological state. In a closed room with an ethidion breather, you will start acting like a maniac.

In Coffee

So should we come to the question of putting ethidion into the coffee of the physical plant employees? Remember, of course that Dr. Haagens-Smith has a gadget which will remove and process organic chemicals from the atmosphere, so it’s not actually necessary to have an ethodion breather anymore. Would it really come as a great surprise if someday the Tech carried the story of how our 360th had been fixed by a customer engineer so that it’s now capable of using any 数字 vinyl as well as magnetic oxide and occasionally returned the lyrics of someone discovered a way to make a good record on top of the wall with a rake. Everyone else in South China “Great Lenin, Gregor! Steam tunnels!” Perplexity in communism.

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 protected 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 a number of years to complete. Had we some other overloaded freeways now sitting under the weight of cars. However, some of its less attractive features are scheduled on the basis of population trends 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 at all easy, especially for anyone whose livelihood depends upon travel or trucking. In fairness to both of those called the Highway Lobby, they are indeed figures for a two-way life. Of course, it must be forgiven for fighting like chorine worms, for cornered they are, with proposition 18. The strength of the Lobby will be diminished, and they will lose notice.

Whichever way you vote, as often as you are eligible next week.
The Critical Ear

Ormandy Does Bolero, Flip Side

Ravel's BOLERO performed by Eugene Ormandy and the Philadelphia 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 of Faure. 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 Rythym Band; Warner Brothers 1664.

The title song of the album was recently released as a single, which is the album being reviewed now just 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's sound is getting smoother, and their writing 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 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 if you like the group at all.

Solutions will be unleashed in the next issue.

A Crossword Puzzle in the Tech?

FRANK D. CLAY & SON

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**Movie Review**

**CO'MING OUT**

IN "PERFO'RMANCE," WE STARkisENCf, Levin on Art Cal. 93103.

**MICK JAGGER**

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

Fred Glock 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 a Peruvian earthquake smile as they carry UNICEF relief supplies. Trick or Treat finds enable UNICEF to respond promptly to emergencies.

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**News Briefs**

Continued from Page One

**Rousselot**

Continued from Page Three

**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 relays 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.

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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.?
Continued from Page One

Luna(tics) Moonstruck by Apollo Paydirt

Continued from Page One

of troyolite 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 microscope 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 coloring and hue of some of the samples was exceeded only by the apatite scar worn by geologist 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 that has developed and is 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 told the Fleming group that the problem of universalizing for which contemporary American cities are criticized is caused by the invasion of old machine, notably the automobile. The cities Dr. Doxiadis designs are for people, not machines, and technology will answer the problems of the coming megapolis in the United States.

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. Many 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 contemporaneous American cities are criticized is caused by the invasion of the old machine, notably the automobile. The cities Dr. Doxiadis designs are for people, not machines, and technology will answer the problems of the coming megapolis in the United States.

Continued from Page Two

Problem Worked Over

Chromatic and emphasized the ideal city would offer choices to all its citizens. Dr. Doxiadis told the Fleming group that the problem of universalizing for which contemporary American cities are criticized is caused by the invasion of old machine, notably the automobile. The cities Dr. Doxiadis designs are for people, not machines, and technology will answer the problems of the coming megapolis in the United States.

Players of the Week

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

Throp Lives On

Continued from Page Two

NLF surrenders, 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: Norman Chomsky and S. E. Luria of M.I.T.; Clergy and Laymen Concerned about Vietnam, Detroit; Chicago SLGC, 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 campus 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 proofreading and typesetting.

The CALTECH FORUM is your exchange of columns. Use it.
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."

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